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Mr. Kieling

Kirtland AFB is submitting a copy of the Quarterly Remediation and Site Investigation Report for the Bulk Fuels Facility in an electronic version as requested. The report documents our investigation and monitoring activities from April through June 2010.

If you have any questions with regard to this submittal, please contact Mark Holmes, 377MSG/CEANR at (505) 846-9005.

Sincerely

ROBERT L. MANESS, Colonel, USAF
Commander

Attachment:
Electronic Version of the Quarterly Remediation and Site Investigation Report, April through June 2010, Bulk Fuels Facility

Attachments for Distribution:
1. Quarterly Remediation and Site Investigation Report, April through June 2010, Bulk Fuels Facility
2. Electronic Version of the Quarterly Remediation and Site Investigation Report, April through June 2010, Bulk Fuels Facility

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# KIRTLAND AIR FORCE BASE, NEW MEXICO

## QUARTERLY REMEDIATION AND SITE INVESTIGATION REPORT FOR THE BULK FUELS FACILITY SPILL APRIL 2010 THROUGH JUNE 2010

**August 2010**

**377 MSG/CEANR**
**2050 Wyoming Blvd. SE**
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**ENVIRONMENTAL RESTORATION PROGRAM**
**KIRTLAND AIR FORCE BASE, NEW MEXICO**

# QUARTERLY REMEDIATION AND SITE INVESTIGATION REPORT FOR THE BULK FUELS FACILITY SPILL APRIL 2010 THROUGH JUNE 2010

**AUGUST 2010**

***Prepared For***
HQ AFCEE/ERD
Environmental Restoration Division
Lackland Air Force Base, Texas 78236-9853
USAF Contract No. FA8903-08-D-8769 Task Order No. 0096

***Prepared By***
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# AUGUST 2010

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LUDIE W. BITNER, JR., YF-02
Restoration Chief

This document has been approved for public release in accordance with Department of Defense Directives and Air Force Instructions.

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377th ABW Public Affairs

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# PREFACE

This Quarterly Remiediation and Site Investigation Report for the Bulk Fuels Facility Spill, describes the characterization and remediation activities conducted from April 2010 through June 2010 at Kirtland Air Force Base, New Mexico. This report addresses the requirements of the U.S. Air Force (USAF) statement of work (SOW) for FA8903-08-D-8769 Task Order 0096 SOW dated 12 November 2008 and Task Order 0178 dated 15 September 2009.

This report was prepared by CH2M HILL in August 2010. The work was performed under the authority of the Air Force Center for Engineering and the Environment, Contract Number FA8903-08-D-8769, Task Order 0096. Mr. Michael Litman served as the Contracting Officer's Representative.

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AEHD | Albuquerque Environmental Health Department |
| AFB | Air Force Base |
| AST | aboveground storage tank |
| atm | atmosphere pressure unit |
| bgs | below ground surface |
| Btu | British thermal unit(s) |
| Btu/hr | British thermal unit(s) per hour |
| BTEX | benzene, toluene, ethylbenzene, and xylene |
| C | vapor concentration |
| CO | carbon monoxide |
| $CO_2$ | carbon dioxide |
| DO | dissolved oxygen |
| DQE | data quality evaluation |
| DRE | destructive removal efficiency |
| DRO | diesel range organics |
| EDB | ethylene dibromide; also known as 1,2-dibromethane |
| EPA | U.S. Environmental Protection Agency |
| ft | foot (feet) |
| ft/ft | foot (feet) per foot (gradient) |
| gpm | gallon(s) per minute |
| GRO | gasoline range organics |
| $H_2O$ | water |
| HAP | hazardous air pollutant |
| HC | hydrocarbon concentration |
| ICE | internal combustion engine |
| J | estimated value/concentration; the analyte was positively identified but the associated numerical value is below the reporting limit |
| K | Kelvin |
| KAFB | Kirtland Air Force Base |
| $kg/m^3$ | kilogram per cubic meter |
| lb/hr | pound(s) per hour |
| lb/yr | pound(s) per year |

# ACRONYMS AND ABBREVIATIONS (Continued, Page 2 of 3)

| | |
|---|---|
| MCL | maximum contaminant level |
| MDL | method detection limit |
| MEK | methyl ethyl ketone; also known as 2-butanone |
| $m^3$/hr | cubic meters per hour |
| µg/L | microgram(s) per liter |
| µg/kg | microgram(s) per kilogram |
| mg/kg | milligram(s) per kilogram |
| mg/L | milligram(s) per liter |
| msl | mean sea level |
| MTBE | methyl tertiary butyl ether |
| | |
| NA | not applicable; not analyzed |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMED-GWQB | New Mexico Environment Department – Ground Water Quality Bureau |
| NMED HWB | New Mexico Environment Department – Hazardous Waste Bureau |
| NR | not recorded, possible instrument calibration error |
| | |
| $O_2$ | oxygen |
| ORP | oxidation-reduction (redox) potential |
| | |
| PAH | polycyclic aromatic hydrocarbon |
| pH | hydrogen (ion) concentration |
| PID | photoionization detector |
| ppb | parts per billion |
| ppm | parts per million |
| ppmv | parts per million by volume |
| PSH | phase-separated hydrocarbon |
| | |
| QAPP | Quality Assurance Project Plan |
| QA/QC | quality assurance/quality control |
| | |
| RCRA | Resource Conservation and Recovery Act |
| redox | oxidation-reduction |
| rpm | revolutions per minute |
| RSI | Remediation Services International |
| | |
| scfm | standard cubic feet per minute |
| SNL | Sandia National Laboratories |
| $SO_2$ | sulfur dioxide |
| SSL | Soil Screening Levels |
| SVE | soil vapor extraction |
| SVEW | soil vapor extraction well |
| SVMW | soil vapor monitoring well |
| SVOC | semi-volatile organic compound |

# ACRONYMS AND ABBREVIATIONS (Concluded, Page 3 of 3)

| | |
|---|---|
| TIC | top of inner casing |
| ton(s)/yr | ton(s) per year |
| TPH | total petroleum hydrocarbon |
| TSP | total suspended particulate |
| | |
| U | undetected value/concentration; the analyte was not detected. The numerical value is below the reporting limit. |
| USACE | U.S. Army Corps of Engineers |
| USAF | U.S. Air Force |
| USCS | Unified Soil Classification System |
| USF-1 | Upper Santa Fe Group-1 (geologic formation) |
| USF-2 | Upper Santa Fe Group-2 (geologic formation) |
| | |
| VA | Veterans Affairs |
| VOC | volatile organic compound |
| | |
| WQCC | Water Quality Control Commission (New Mexico) |

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# EXECUTIVE SUMMARY

This report has been prepared to summarize ongoing remedial activities and ongoing site investigation activities at Solid Waste Management Units (SWMUs) ST-106 and SS-111, Bulk Fuels Facility Spill, Kirtland Air Force Base (AFB), New Mexico (EPA ID# NM9570024423/HWB-KAFB-10-004). As specified by the New Mexico Environment Department (NMED) – Hazardous Waste Bureau (HWB) (NMED-HWB, 2010a) the overall planning and quarterly reporting for the ST-106 and SS-111 sites has been integrated due to the interrelated nature of the sites and the applicability of different data sets to characterization and remediation activities at the Bulk Fuels Facility Spill. Semi-annual reports had previously been submitted to provide regular dissemination of ongoing remediation and site characterization activities related to the Stage 2 Abatement action for the Former Fuel Offloading Rack (designated ST-106) and the phase-separated hydrocarbon (PSH)-impacted groundwater (designated SS-111). On June 4, 2010, the NMED-HWB directed submittal of reports on a quarterly basis providing detailed information on all characterization and remediation activities related to ST-106 and SS-111 (NMED-HWB, 2010a).

Historically, semi-annual reports had presented data regarding the ongoing remediation of ST-106, the vadose zone contamination associated with the Former Fuel Offloading Rack, and ongoing interim remediation that was instituted to begin recovery of PSH on the groundwater at SS-111. The activities and data related to ST-106 that have been reported had been conducted as the Stage 2 Abatement action under a NMED-Groundwater Quality Bureau (GWQB) approved *Stage 2 Abatement Plan* (United States Air Force [USAF], 2002). The *Stage 2 Abatement Plan for the Bulk Fuels Facility (ST-106)* identified soil vapor extraction (SVE) as the preferred abatement option to be implemented at site ST-106 to attain abatement standards and requirements set forth in Section 4103 of Title 20 New Mexico Administrative Code (NMAC) Chapter 6 Part 2. The ST-106 remediation was initiated prior to the discovery of the PSH-impacts to groundwater. Following the discovery of SS-111, Kirtland AFB instituted PSH recovery directly from the aquifer surface at three well locations, utilizing the same SVE technology that was the approved Stage 2 Abatement action for site ST-106. These actions have been conducted as interim measures while site characterization activities continue. Quarterly remediation and site investigation reports will now describe the operation, maintenance, and performance of the interim remedial measures as well as site characterization activities completed at the site.

Four SVE and treatment systems operated at the Bulk Fuels Facility during the period from April 2010 through June 2010. One system, referred to as the Former Fuel Offloading Rack system, continued to operate as the approved Stage 2 Abatement action for the vadose zone contamination associated with ST-106. The other three SVE systems operated as interim remedial measures being applied directly to the PSH on groundwater aspect of the site that has been designated as SS-111.

The cumulative hydrocarbon recovery for the Former Fuel Offloading Rack SVE system including biodegradation through the end of June 2010 was approximately 225,864 gallons. This SVE system and biodegradation destroyed a total of 6,656 equivalent gallons of petroleum hydrocarbons during the reporting period. The cumulative hydrocarbon recovery for the KAFB-1065 SVE system including biodegradation was approximately 89,943 gallons through the end of June 2010. The KAFB-1065 SVE system and biodegradation destroyed a total of 2,675 equivalent gallons of petroleum hydrocarbons during the reporting period. The cumulative hydrocarbon recovery for the KAFB-1066 SVE system including biodegradation was approximately 34,625 gallons through the end of June 2010. The KAFB-1066 SVE system and biodegradation destroyed a total of 701 equivalent gallons of petroleum hydrocarbons during the reporting period. The cumulative hydrocarbon recovery for the KAFB-1068 SVE system including biodegradation was approximately 51,868 gallons through the end of June 2010.

The KAFB-1068 SVE system and biodegradation destroyed a total of 9,284 equivalent gallons of petroleum hydrocarbons during the reporting period.

During the reporting period, high soil-vapor concentrations continued to persist near the Former Fuel Offloading Rack. These concentrations indicate that a significant source of soil vapor remains in that general area of the site, which is expected since it is a primary fuel release area and the core area associated with the vadose zone contamination identified as site ST-106. While some of the highest observed TPH vapor concentrations remain in the Former Fuel Offloading Rack area, the data continue to indicate a slow, yet consistent, decrease in petroleum hydrocarbon concentrations relative to conditions when the ST-106 Stage 2 Abatement remediation actions began. Continued quarterly collection and evaluation of soil vapor data will provide further information on this trend and the ongoing remediation of the ST-106 vadose zone impacts at the Former Fuel Offloading Rack area.

As previously observed, elevated soil-vapor concentrations also persist in some areas of the site away from the Former Fuel Offloading Rack. The presence of the SS-111 PSH on the groundwater table coupled with residual fuel product within the vadose zone are most likely the source of the persistent, elevated vapor concentrations that have been observed in the eastern area of the site. Additional investigation and data evaluation will continue to more fully determine how the elevated vapor concentrations correlate to the PSH on the water table and residual fuel that remains in the vadose zone on the eastern side of the site.

During the second quarter of 2010, three additional groundwater monitoring wells were installed for investigation purposes across the site. Well installations proceeded according to the February 2010 addendum (USAF, 2010a) to the *Stage 2 Abatement Plan Modification* (USAF, 2007) and as approved with further direction from the NMED-HWB in April 2010 (NMED-HWB 2010b).

The new wells, designated KAFB-10626, KAFB-10627, and KAFB-10628 were completed during April and May 2010 and supplement the other existing 25 site groundwater monitoring wells. No PSH was detected in the new downgradient or upgradient monitoring wells (KAFB-10626 and KAFB-10627, respectively) but well KAFB-10628, located in Bullhead Park, did contain measurable PSH. The new downgradient and upgradient monitoring wells also did not contain dissolved-phase contamination at concentrations above applicable regulatory standards. Additionally, the concentration of EDB in the new upgradient and downgradient monitoring wells, KAFB-10627 and KAFB-10626, respectively, was not detected above the laboratory reporting limit of 0.02 μg/L.

In the vicinity of the Bulk Fuels Facility, the quarterly groundwater sampling data continue to illustrate that the eastern, western, and southern extents of the PSH and dissolved constituent impacts to the groundwater are largely delineated at the water table, although vertical delineation has not been completed. Measurable PSH was detected on the water table surface at seven well locations: KAFB-1065, KAFB-1066, KAFB-1068, KAFB-1069, KAFB-10610, KAFB-10614, KAFB-10618, and KAFB-10628. During the reporting period the thickness of PSH in the wells ranged from a sheen of less than 0.01 foot to roughly 3 feet. However, the greatest thicknesses are witnessed at the SVE wells due to the suction generated from these systems and these elevated thicknesses do not represent the static PSH thickness on the water table in these areas, which would be less. Due to increased volatilization from the SVE systems, the benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations in the PSH on the water table have decreased by approximately 75 percent through October 2009.

Many detected dissolved compound concentrations in groundwater across the site are relatively low-level, often laboratory J-flagged values that are below applicable groundwater standards. In the downgradient direction, wells KAFB-10617, KAFB-10619, KAFB-10621, KAFB-10622, KAFB-10625, to the northeast have concentrations of EDB that exceed applicable EPA MCLs. However, these concentrations are delineated below the MCL at the water table to the northeast by wells KAFB-10623 KAFB-10615, and newly installed KAFB-10626. Further delineation of regulatory exceedances in groundwater is scheduled to begin in the third or fourth quarter of 2010, pending NMED review of the final work plans. While delineation of the plume is not yet complete, the naturally occurring physical and biological processes at this site are expected to result in the dissolved-phase exceedances being fairly self-limiting with distance moving away from the PSH plume itself.

The measured groundwater elevations and corresponding elevation contours indicate that the overall groundwater flow direction across the main portion of the site is to the north-northeast as has been previously observed. The groundwater flow gradient is calculated to be approximately 0.001 to 0.002 foot per foot (ft/ft). Based on available data, the worst case travel time for dissolved groundwater contamination exceeding regulatory standards to reach the closest water supply well (VA Hospital Well) is approximately 10 years, approximately 23 years to reach the closest Kirtland AFB well KAFB-16, and approximately 42 years to reach the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) Burton wellfield.

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# 1. INTRODUCTION

The Bulk Fuels Facility Spill site is located within the western part of Kirtland Air Force Base (AFB), New Mexico (Figure 1-1) and is comprised of two Solid Waste Management Units (SWMUs) designated as ST-106 and SS-111. The aspect of the project related to the vadose zone investigation and remediation in the vicinity of the Former Fuel Offloading Rack is designated as SWMU ST-106. The phase-separated hydrocarbon (PSH)-impacted groundwater component of the Bulk Fuels Facility project is designated as SWMU SS-111. Name usages in this document may utilize the more generic term of Bulk Fuels Facility in addition to the numeric site designations when information being discussed is specific to one site.

## 1.1. Report Purpose

This report has been prepared to summarize ongoing remedial activities and ongoing site investigation activities at SWMUs ST-106 and SS-111, Bulk Fuels Facility Spill, Kirtland AFB, New Mexico (EPA ID# NM9570024423/HWB-KAFB-10-004). As specified by the New Mexico Environment Department (NMED) – Hazardous Waste Bureau (HWB) (NMED, 2010a) the overall planning and quarterly reporting for the ST-106 and SS-111 sites has been integrated due to the interrelated nature of the sites and the applicability of different data sets to characterization and remediation activities at the Bulk Fuels Facility Spill.

On April 2, 2010, regulatory control of the Bulk Fuels Facility site was transferred from the NMED Ground Water Quality Bureau (GWQB) to the NMED-HWB (NMED, 2010b). Historically, semi-annual reports had presented data regarding the ongoing remediation of ST-106, the vadose zone contamination associated with the Former Fuel Offloading Rack, and ongoing characterization and interim remediation that was instituted to begin recovery of PSH on the groundwater at SS-111. The activities and data related to ST-106 that have been reported had been conducted as the Stage 2 Abatement action under a NMED-GWQB approved *Stage 2 Abatement Plan* (United States Air Force [USAF], 2002). The *Stage 2 Abatement Plan for the Bulk Fuels Facility (ST-106)* identified soil vapor extraction (SVE) as the preferred abatement option to be implemented at site ST-106 to attain abatement standards and requirements set forth in Section 4103 of Title 20 New Mexico Administrative Code (NMAC) Chapter 6 Part 2. The ST-106 remediation was initiated prior to the discovery of the PSH-impacts to groundwater. Following the discovery of SS-111, Kirtland AFB instituted PSH recovery directly from the aquifer surface at three well locations, utilizing the same SVE technology that was the approved Stage 2 Abatement action for site ST-106. These actions have been conducted as interim measures while site characterization activities continue.

In a June 4, 2010 letter to Kirtland AFB, the NMED-HWB directed that the reporting frequency be increased to a quarterly basis, beginning with reporting of second quarter 2010 data (NMED-HWB, 2010a). The NMED specified due dates for future quarterly reports, as follows:

| Quarter | Reporting Period | Due Date |
|---|---|---|
| 1 | January 1 – March 31 | May 30 |
| 2 | April 1 – June 30 | August 29 |
| 3 | July 1 – September 30 | November 29 |
| 4 | October 1 – December 31 | February 28 of following year |

The new quarterly reporting schedule will be implemented beginning with this submission of the second quarter 2010 report. The quarterly reports will use a similar format and contain the same types of information as the previously submitted semi-annual reports, with the addition of information specified in the June 4, 2010 letter from the NMED-HWB to Kirtland AFB. Quarterly remediation and site

investigation reports will describe the operation, maintenance, and performance of the interim remedial measures as well as site characterization activities completed at the site. The quarterly reports will present data and information related to three parallel courses of action that have been ongoing at the Bulk Fuels Facility Spill site, including the following:

- Ongoing remediation to address the vadose zone at the Former Fuel Offloading Rack (ST-106)
- Interim remedial actions to address the PSH on the groundwater (SS-111 interim remediation)
- Site investigation activities to delineate the nature, magnitude, and extent of PSH impacts to groundwater (SS-111 investigation)

Quarterly reports will continue to allow information regarding successive investigation phases to be regularly disseminated to stakeholders, and presented in context with the other related site data, rather than having reporting held until all delineation activities were complete or having multiple reports that present limited facets of ongoing activities being issued at unscheduled intervals. The June 4, 2010 letter from the NMED-HWB also included several other reporting requirements, in addition to the change to quarterly reporting. Where feasible, those requirements have been implemented in this second quarter 2010 report. As directed by the NMED-HWB, information presented in the quarterly reports will include:

- Field and laboratory analytical results for groundwater, soil and soil gas;
- Graphs showing trends of major contaminants versus time;
- A table of surveyed well locations;
- Descriptions of the installation of groundwater and soil-gas monitoring wells;
- Measurements of light non-aqueous phase liquid (LNAPL), also referred to as PSH;
- A table of water levels and a water level map;
- Plume contaminant maps and cross-sections;
- Geologic and geophysical logs of wells and boreholes;
- Operation, maintenance, and performance data for remedial measures;
- Quality Assurance/Quality Control (QA/QC) data; and
- Recommendations for future site investigation activities.

The new requirements that were incorporated into this report to complete the list described above include: time-series plots of major contaminants in soil gas and groundwater; addition of geologic cross-sections; addition of latitude and longitude coordinates for all wells and boreholes; a table showing thickness of LNAPL; and a table showing the USEPA MCL alongside the laboratory method detection limit (MDL) for all contaminants of concern. Other requirements outlined in the NMED-HWB's June 4, 2010 letter will be incorporated in the report submitted for the third quarter 2010. These include analyzing groundwater samples for the remaining major ions, field analysis of alkalinity, and geophysical logs of wells and boreholes.

The June 4, 2010 letter from the NMED-HWB also included several other additional field requirements. To the extent possible, those requirements were implemented in the remaining portion of the quarter, however, since the June 4, 2010 letter was received during what was already the final month several aspects of the quarterly field activities had already been completed. All requirements in the June 4, 2010 letter will be implemented beginning with the third quarter 2010. These requirements include: analyzing groundwater samples for carbonate, bicarbonate, ammonia, and sulfide; and laboratory analysis of all soil gas samples collected from the SVE systems (rather than field instrument measurements).

## 1.2. Report Organization

This Quarterly Remedial Action and Site Investigation Report presents the activities conducted and data collected over the period from April 2010 through June 2010. Activities were conducted to meet remediation and investigation objectives as documented in the *Stage 2 Abatement Plan Modification Addenda* (USAF, 2009a) as approved by the NMED-GWQB, and to the extent possible to meet the requirements of the NMED-HWB's April 2, 2010 and June 4, 2010 letters to Kirtland AFB.

This report is organized into four sections, with this Introduction as Section 1.

Section 2 discusses the operation and optimization of the SVE remedial systems, including the original ST-106 system as well as the three additional interim systems for SS-111 that focus on direct recovery of PSH from the groundwater table. Information presented in Section 2 includes operational hours, system performance monitoring data, and calculations of extracted petroleum hydrocarbon quantities.

Section 3 discusses the monitoring activities and data associated with quarterly soil vapor and groundwater monitoring. While vapor in the subsurface itself is not a regulated environmental media, soil vapor monitoring in the vadose zone has and continues to be an important data collection tool to assess real time vadose zone changes associated with the remediation at the Bulk Fuels Facility Spill site.

The ongoing groundwater sampling program, which now includes routine quarterly monitoring of 32 monitoring, production, and private groundwater wells, is the primary data collection tool for evaluating nature and extent of both PSH and dissolved-phase groundwater impacts. Section 3 also discusses additional groundwater monitoring well installation activities conducted during the reporting period. The monitoring well installation is generally described in Section 3 and specific details are further presented in the corresponding appendix.

Section 4 summarizes overall site conclusions from the reporting period, evaluates those findings in the context of prior data, presents general recommendations for continued investigation and monitoring, and recommendations for optimization of ongoing remedial activities. Work planning submittals prepared in response to the NMED-HWB April 2, 2010 letter are in the process of review by the State at the time this quarterly report was published. Those final work plans may ultimately present more specific or different recommendations that supersede those presented here.

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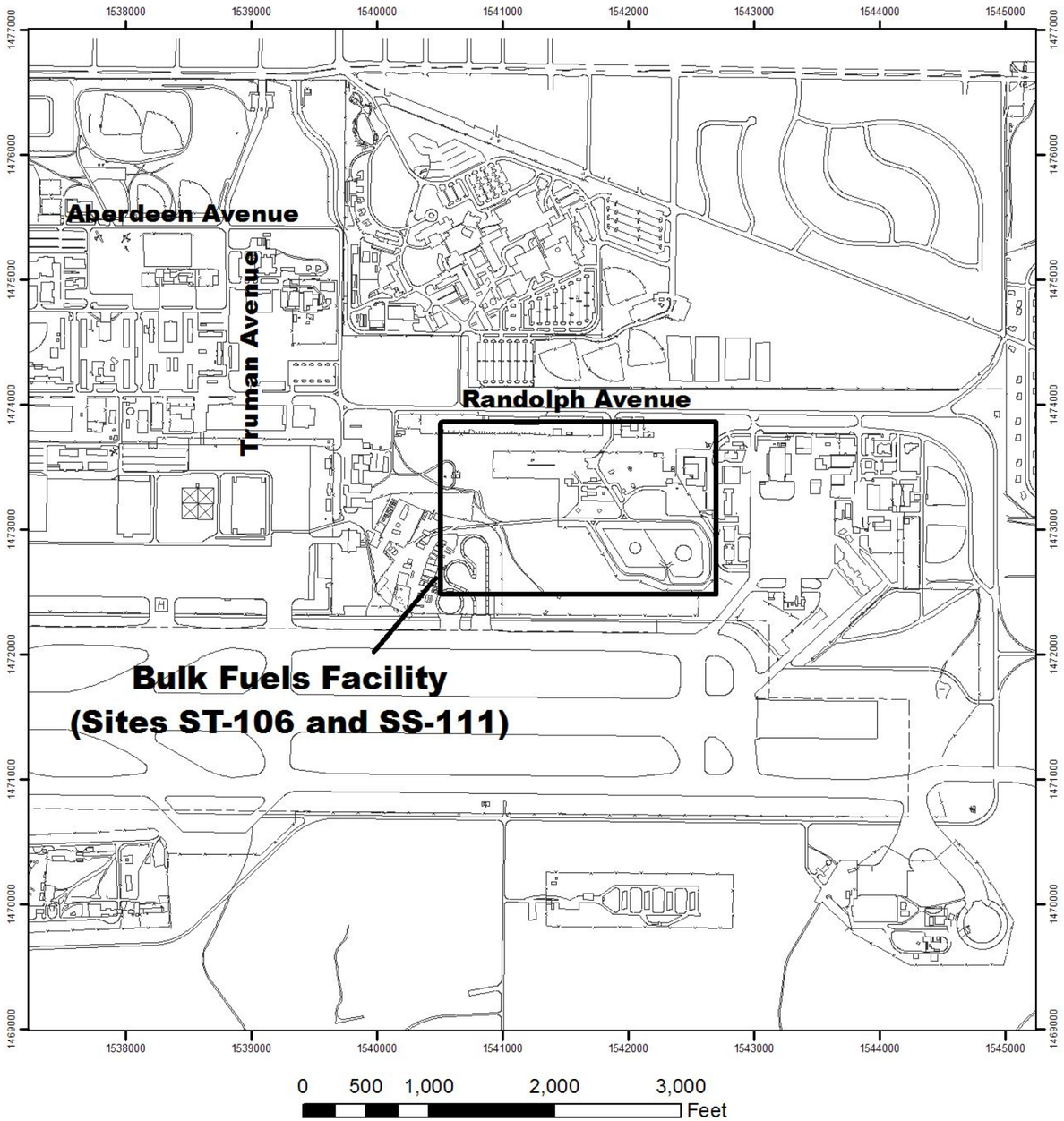


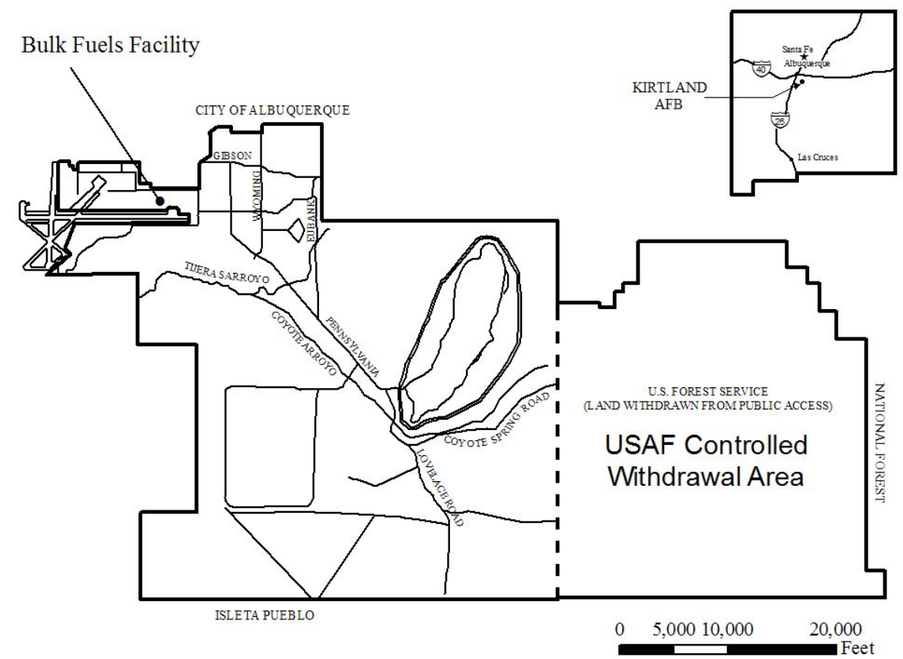


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Semi-Annual Summary and Performance Report

Bulk Fuels Facility

Figure 1-1

Site Location Map for the Bulk Fuels Facility

Revision Date: 14 May 2008

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# 2. REMEDIATION SYSTEMS OPERATION

This section provides an overview of the components of the SVE systems that are in use at the Bulk Fuels Facility and a summary of the operation, optimization and any infrastructure modifications for each system during the reporting period. Information provided in this report is for the reporting period from April 2010 through June 2010.

## 2.1 Remediation Systems

### 2.1.1 Soil Vapor Extraction and Treatment Systems

Each of the SVE and treatment systems in use at the Bulk Fuels Facility consist of trailer-mounted units that include specialized on-board computer controllers, sensors, and a pair of 460-cubic-inch displacement Ford Model LSG-875 internal combustion engines (ICEs). These ICEs have been modified and remanufactured to the specifications of Remediation Services International (RSI). Within each SVE system, the computer controller uses the engines as both the vacuum pump to provide the soil vapor extraction and as a means to destroy hydrocarbon vapors removed from the vadose zone. The vacuum is used to extract soil vapor from SVE wells in the vadose zone or to volatilize PSH directly from the water table surface in groundwater monitoring wells by extracting vapor-phase hydrocarbons. Each unit is fitted with a computer-controlled carburetor that controls the mixing of hydrocarbon vapors from the subsurface and ambient dilution air to maintain the proper air/fuel ratio to support combustion. Propane is used as the fuel source during engine starting and warm-up, after which the system consumes recovered petroleum hydrocarbon vapors as the primary fuel source, using propane as needed to help stabilize engine performance. If soil vapor concentrations are sufficiently high, minimal propane relative to recovered hydrocarbon consumption is required to maintain optimum performance. The exhaust stream of each engine is fitted with a post-combustion catalytic converter to destroy unburned hydrocarbons remaining in the exhaust.

At ST-106, the Former Fuel Offloading Rack, the SVE and treatment system is connected to nine soil vapor extraction wells (SVEWs), as shown in Figure 2-1 and numbered SVEW-01 through SVEW-09. Each of the nine SVEWs are plumbed via buried conveyance piping to a central manifold located adjacent to the SVE treatment unit. Also shown on Figure 2-1 are four inactive SVEWs that could be plumbed into the treatment system in the future if needed (SVEW-10 through SVEW-13). The three SVE and treatment systems installed at groundwater monitoring wells KAFB-1065, KAFB-1066, and KAFB-1068 are directly connected to these PSH-containing groundwater wells with no need for a manifold system or mixing with other hydrocarbon vapor sources. The application of the vacuum at the wellheads induces volatilization of fuel from the PSH surface and the volatilized fuel stream is extracted via the well casing to the ground surface to directly operate the ICEs. The KAFB-1065 system was installed during August 2008 and the KAFB-1066 and KAFB-1068 systems were installed in March 2009. The SVE systems installed at monitoring wells KAFB-1065, KAFB-1066, and KAFB-1068 have some differences from the SVE unit in place at the Former Offloading Rack. These SVE units are fitted with adjustable hydraulic loading modules that apply resistance to the engines, therefore allowing the engines to do more work and subsequently have a greater hydrocarbon mass recovery from the subsurface.

When operating with the hydraulic loading modules engaged, the SVE systems can operate at higher engine speeds (such as 2,000 revolutions per minute [rpm]) to provide the vacuum necessary for higher extraction flow rates. However, the ability to operate the systems with the hydraulic loading modules engaged is dependent on the fuel content of the extracted well gas being high enough to support the increased fuel demands. If the extracted well gas is not of sufficiently high fuel content the additional

energy is derived from increased supplemental fuel use and would not correlate to any greater mass removal from the subsurface. Therefore, if sufficient fuel content is not present in the subsurface vapor stream to support hydraulic load operation the loading units are disengaged.

### 2.1.2 Soil Vapor Extraction and Treatment System Operational Issues

In August 2008, the Albuquerque Environmental Health Department (AEHD) provided Kirtland AFB direction that the SVE systems are considered stationary sources subject to permitting in accordance with 20.11.41 NMAC and that potential emissions should be calculated based on the worst-case fuel mixture entering the SVE system based on historical data. The 20.11.41 NMAC permit application for the SVE system was submitted to AEHD in December 2008, and 20.11.41 NMAC Permit #1984 for the eight SVE engines was issued on 30 April 2009. The permit authorizes the engines to run continuously.

However, in 2009 and the first quarter of 2010, Kirtland AFB and the AEHD have been engaged in further discussions regarding the ICE systems and whether the performance testing and certification requirements stipulated by 40 CFR 60.4243(f) applied to the ICEs within the SVE systems. It has been determined that the ICEs are subject to the certification requirements. During the second quarter of 2010 Kirtland AFB and the AEHD exchanged information regarding developing approved testing protocols that will need to be used for the ICE certification process. Certification testing will be conducted during the third quarter of 2010 if a testing protocol can be established with AEHD. It should be noted that continued operation of the SVE systems will be contingent on the internal combustion engines meeting the 40 CFR 60.4243(f) certification requirements. At this time it is unknown if the actual emissions from the ICEs will meet the certification requirements. Additionally, the certification requirements are on an individual engine basis, therefore, each individual engine in the ICE SVE system will require certification and whenever an engine is replaced or has major overhaul work conducted on the engine it will to go through the certification process again.

### 2.1.3 Fuel Remediation Attributable to Natural Attenuation

The Air Force Center for Engineering and the Environment (AFCEE) has published guidance to account for the attenuation of petroleum hydrocarbons by bioventing (AFCEE, 1996). The mass of petroleum hydrocarbons biodegraded is given by the equation:

$$HC_{Bio} = (C_{V,bkgd} - C_{V,O2})/100*Q*C*\rho_{O2}*MW_{O2} *(kg/1,000g)*(1,440 \text{ min/day})$$

Where:

$HC_{Bio}$ = Mass of hydrocarbons biodegraded (kg/day)
$C_{V,bkgd}$ = Concentration of oxygen in background, uncontaminated area (%)
$C_{V,O2}$ = Concentration of oxygen in extracted off-gas (%)
Q = Flowrate (cfm)
C = Mass ratio of hydrocarbon to oxygen degraded based on stoichiometry[2] (1/3.5)
$\rho_{O2}$ = density of oxygen (moles/L)
$MW_{O2}$ = Molecular weight of oxygen (g/mole)

Based on this equation and an average oxygen deficit in the ICE influent gas of approximately 7-percent, the amount of biodegradation occurring at the Bulk Fuels Facility is approximately 117 gallons of fuel degraded per every cubic feet per minute (cfm) of air extracted from the SVE systems per year or 29.25 gallons of fuel per cfm extracted per quarter. By using this relationship the total volume of fuel removed due to both SVE and biodegradation can be calculated, as will be discussed in subsequent sections.

## 2.2 ST-106 Former Fuel Offloading Rack Stage 2 Abatement Plan Remedial Action

The following sections summarize the second quarter 2010 operation of the ST-106 SVE system at the Former Fuel Offloading Rack as the approved Stage 2 Abatement action for the vadose zone soil impacts at the site.

### 2.2.1 ST-106 SVE System Operation

During the reporting period of April 2010 through June 2010, the Former Fuel Offloading Rack SVE system was actively extracting soil vapor from extraction wells SVEW-01, SVEW-04, SVEW-05, SVEW-08, and SVEW-09, as indicated in Table 2-1. Soil vapors from the active wells comprised the system's combined influent vapor (well locations are shown in Figure 2-1). The active extraction wells open to the SVE system are optimized to extract the maximum amount of required combustion constituents (fuel and oxygen) from the subsurface in order to maximize mass removal.

Additionally, since the first quarter of 2006, the well-control manifold vapor sampling ports for the inactive vapor extraction wells have been open to the atmosphere to allow atmospheric oxygen to be drawn by vacuum into the subsurface through the inactive well screens. The ports remained open during this reporting period to allow for additional degradation of the vapor plume via bioventing.

**Table 2-1. Former Fuel Offloading Rack SVE System Extraction Well Number and Depth of Screened Interval**

| Extraction Well | Depth of Screened Interval (ft bgs) | Active Extraction Well During April 2010 through June 2010 |
|---|---|---|
| SVEW-01 | 245 – 260 | Yes |
| SVEW-02 | 45 – 60 | No |
| SVEW-03 | 145 – 160 | No |
| SVEW-04 | 298 – 313 | Yes |
| SVEW-05 | 445 – 460 | Yes |
| SVEW-06 | 45 – 60 | No |
| SVEW-07 | 145 – 160 | No |
| SVEW-08 | 245 – 260 | Yes |
| SVEW-09 | 435 – 450 | Yes |
| ft bgs = feet below ground surface | | |

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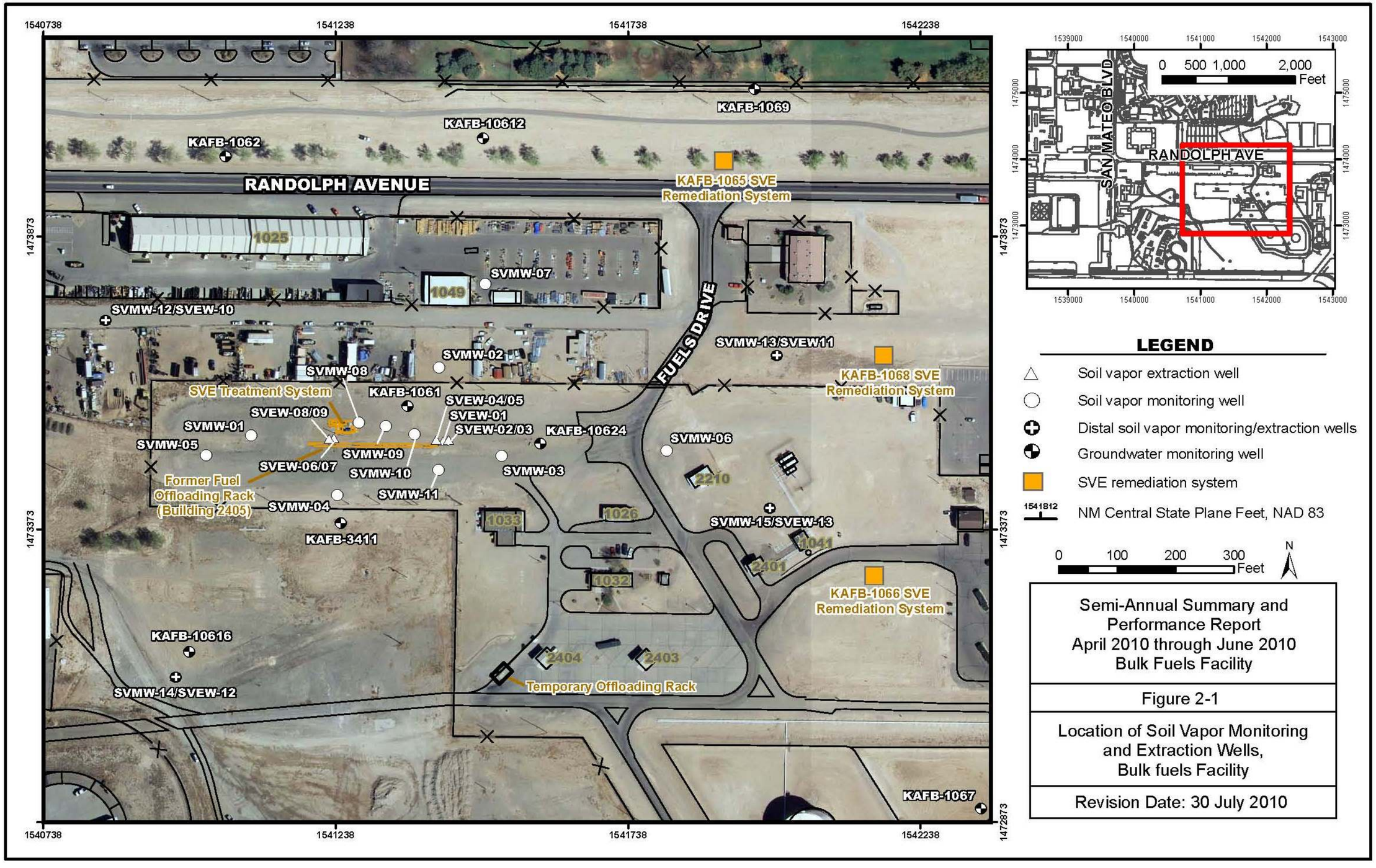


Semi-Annual Summary and
Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 2-1

Location of Soil Vapor Monitoring
and Extraction Wells,
Bulk fuels Facility

Revision Date: 30 July 2010

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During the second quarter of 2010, at least one of the Former Fuel Offloading Rack SVE system engines was operational and actively removing and destroying contaminated subsurface soil vapor during 77 of the available 91 days of the reporting period, an 85-percent effective operation for the period. The ST-106 system had the engines replaced in June 2010 which accounted for the majority of the system downtime during the reporting period. The operational run time percentages for the Former Fuel Offloading Rack SVE system for each month within the reporting period are provided in Appendix A. Since the SVE systems consist of ICEs that operate continuously, they require the same type of regular maintenance as an engine in any motor vehicle, such as changing the oil, oil filter, spark plugs, air filter, coolant, and other general maintenance items. Routine system maintenance is performed in accordance with the site-specific operations and maintenance manual (USAF, 2009b). A summary of the major maintenance activities, non-routine maintenance or repair activities, and system downtime during the reporting period are presented in Appendix A.

### 2.2.2 ST-106 SVE System Hydrocarbon Recovery

The SVE system at the Former Fuel Offloading Rack began pilot test operation in April 2003 and full-scale operation as the approved Stage 2 Abatement action (USAF, 2002) in July 2004. Hydrocarbon extraction quantities for both the reporting period and cumulatively for the ongoing Stage 2 Abatement actions are discussed in this section.

During the reporting period, vapor samples from all SVEWs, soil vapor monitoring wells (SVMWs), and the SVE system inlet and exhausts were analyzed onsite using a Horiba Mexa 554J emissions analyzer for petroleum hydrocarbon concentration in parts per million by volume (ppmv) and for percent oxygen ($O_2$), carbon monoxide (CO), and carbon dioxide ($CO_2$). Pressure measurements were collected with Magnehelic® gauges in units of inches of water. The soil vapor samples and subsurface pressure measurements were collected through the sample ports installed below each well's shutoff valve at the base of the well-control manifold. As required in the NMED-HWB June 4, 2010 letter additional analytical vapor sampling will be instituted in the third quarter of 2010. The June 4, 2010 letter was received too late in this reporting period for there to be sufficient time to institute that sampling in the second quarter.

Table 2-2 presents the calculated hydrocarbon recovery amounts for each month of the reporting period as well as the cumulative hydrocarbon quantity recovered and destroyed by the SVE system at the Former Fuel Offloading Rack since initiation of soil vapor recovery at the site. For the SVE system at the Former Fuel Offloading Rack the hydrocarbon concentrations from the SVE system influent, as measured in the field with the Horiba instrument, are used in the hydrocarbon recovery calculations. In addition to the hydrocarbon recovery volumes, the pressure monitoring data, Horiba field data, and other operational parameters for the Former Fuel Offloading Rack SVE system are also summarized in Table 2-2. The other field measured parameters and pressure measurements are used to support system operational modification decisions.

The Horiba-measured influent hydrocarbon vapor concentrations from Table 2-2 are used along with the molecular weight of the influent vapor stream (98), the gas constant (0.0821), and the standard temperature (290 K) to calculate the vapor concentration (C) in kilogram per cubic meter ($kg/m^3$). The measured well gas inlet flow rate ($m^3/hr$) and hours of operation shown in Table 2-2 are used to calculate recovered mass. The recovered mass is then converted to equivalent gallons. The hydrocarbon recovery is calculated for each engine, and cumulatively summed over the operational period. The hydrocarbon recovery calculations are performed using the same basic equations and assumptions during each reporting period. A detailed explanation of the calculations has been provided within the text of prior reports. Since the calculations do not change, the specific equations, constants, and conversions that are

used in the hydrocarbon recovery calculations are now presented in Appendix A for reference and not repeatedly presented in the body of the text.

The SVE system extracted and destroyed approximately 4,860 equivalent gallons of petroleum hydrocarbons from April 2010 through June 2010 with an additional volume of approximately 1,796 gallons destroyed from biodegradation assuming a flow rate of 83 scfm and an operational run-time of 74-percent using the equation described in Section 2.1.3, for a total of 6,656 gallons destroyed during the second quarter of 2010. The total historical hydrocarbon recovery for the Former Fuel Offloading Rack SVE system through the end of June 2010 was approximately 191,508 gallons. Using an approximate average historical flow rate of 56.9 scfm and an average historical operational run-time of 67 percent though the first quarter of 2010, the amount of fuel destroyed from biodegradation to date is approximately 34,356 gallons. Therefore, the total hydrocarbon recovery to date for the Former Fuel Offloading Rack area is 225,864 gallons.

**Table 2-2. Cumulative Hydrocarbon Recovery, April 2010 through June 2010, ST-106, Former Fuel Offloading Rack**

| Field Parameter | Sample Date | Sample Date | | Sample Date | |
|---|---|---|---|---|---|
| | 4/1/2010 [a] | 5/14/2010 | | 6/30/10 [b] | |
| Pressure (in $H_2O$) | | -30 | | -30 | |
| HC (ppmv) | | 10,512 | | 16,065 | |
| $O_2$ (percent) | | 17.53 | | 16.13 | |
| CO (percent) | | 0.00 | | 0.02 | |
| $CO_2$ (percent) | | 1.74 | | 3.04 | |
| | | | | | |
| Active Wells | | SVEW-01, 04, 05, 08, and 09 | | SVEW-01, 04, 05, 08, and 09 | |
| Engine | | **E1** | **E2** | **E1** | **E2** |
| Well Gas Inlet Flow Rate (scfm) | | 45 | 49 | 40 | 43 |
| Well Gas Inlet Flow Rate (m3/hr) | | 76.5 | 83.3 | 68.0 | 73.1 |
| Hours of Operation | | 883.6 | 591.6 | 814.0 | 934.7 |
| Hydrocarbon Recovery (gallons equivalent) | | 1,074 | 783 | 1,344 | 1,659 |
| Cumulative Hydrocarbon Recovery (gallons equivalent) | 186,648 [c]<br>32,560 [d]<br>Cumulative Total = 219,208 | 188,505 [c] | | 191,508 [c]<br>34,356 [d]<br>Cumulative Total = 225,864 | |

scfm - standard cubic feet per minute.
m3/hr – cubic meter per hour.
[a] Represents starting cumulative recovery at end of prior period.
[b.] Sample and flow measurements collected on 6/29/10.
[c.] Total from SVE system
[d.] Total from biodegradation

### 2.2.3 ST-106 SVE System Vapor Sampling

Analytical samples of the combined influent soil vapor and the pre-catalytic converter and post-catalytic converter exhaust streams were collected May 14, 2010. These samples were collected into pre-evacuated stainless steel summa canisters. The canisters were packaged and shipped under chain of custody to the CH2M HILL Applied Sciences Laboratory in Corvallis, Oregon, for the following analyses:

- VOCs including acetone, methyl tertiary butyl ether (MTBE), and methyl ethyl ketone (MEK; also known as 2-butanone) by Method TO-15
- Fixed gases (oxygen, nitrogen, carbon monoxide, carbon dioxide, and methane) by Method SM 2720C
- Total petroleum hydrocarbon (TPH) gasoline range organics (GRO) by Method SW8015

The laboratory analytical results are summarized in Table 2-3. The complete laboratory analytical data packages for vapor samples collected this reporting period are included with the other site analytical data in Appendix B. Prior quarters' influent and exhaust soil vapor results are presented in Appendix C.

The analytical data for the influent and exhaust samples provide information on the nature of the subsurface vapor constituents. As historically has been the case, during this reporting period most positively detected compounds in the influent soil vapor samples and those with the highest relative concentrations were fuel-related compounds. Also as discussed during previous reporting periods, concentrations of the compounds acetone and MEK continue to be detected in substantial quantities in the SVE influent.

It has been determined that these ketone compounds are byproducts associated with the degradation of fuel-related VOCs. Low concentrations of some halogenated compounds were detected during this reporting period. Similar low and transient concentrations of these types of compounds have been historically observed and the presence of such compounds in the vapor streams will continue to be monitored.

The analytical data from the SVE system influent and exhaust streams provide information on the nature of subsurface vapor compounds and are an indicator of system performance as it relates to destruction efficiency. The destructive removal efficiency (DRE) is calculated as follows:

$$Destruction\ Efficiency = \left( \frac{C_{inlet} - C_{outlet}}{C_{inlet}} \times 100 \right)$$

where:

$C_{outlet}$ is the TPH concentration of the exhaust.
$C_{inlet}$ is the TPH concentration of the SVE and treatment system inlet.

## Table 2-3. Summary of Vapor Inlet and Exhaust Detected Laboratory Sample Results, April 2010 through June 2010, ST-106, Former Fuel Offloading Rack (Page 1 of 2)

| SVE System Inlet and Post Catalytic Converter Samples | ST-106 Former Fuel Offloading Rack SVE System | |
|---|---|---|
| | SVE Inlet | Post Cat E1 |
| | 5/14/2010 | 5/14/2010 |
| **VOC (ppbv) - EPA Method TO-15** | | |
| 1,1,1-Trichloroethane | < 521 | < 3.51 |
| 1,1,2,2-Tetrachloroethane | < 580 | < 3.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | < 745 | < 5.02 |
| 1,1,2-Trichloroethane | < 631 | < 4.25 |
| 1,1-Dichloroethane | < 716 | < 4.82 |
| 1,1-Dichloroethene | < 374 | < 2.52 |
| 1,2,4-Trichlorobenzene | < 587 | < 3.95 |
| 1,2,4-Trimethylbenzene | **14,500 J** | **33.6 J** |
| 1,2-Dibromoethane (EDB) | **1,290 J** | < 3.35 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | < 723 | < 4.86 |
| 1,2-Dichlorobenzene | < 544 | < 3.66 |
| 1,2-Dichloroethane (EDC) | < 658 | < 4.43 |
| 1,2-Dichloropropane | < 635 | < 4.27 |
| 1,3,5-Trimethylbenzene | **6,140 J** | **14.7 J** |
| 1,3-Dichlorobenzene | < 529 | < 3.56 |
| 1,4-Dichlorobenzene | < 529 | < 3.56 |
| 2-Butanone (MEK) | **34,100 J** | **471 J** |
| Acetone | **477,000 J** | **5,860 J** |
| Benzene | **344,000 J** | **1,560 J** |
| Bromomethane | < 5,200 | < 43 |
| Carbon tetrachloride | < 292 | < 1.96 |
| Chlorobenzene | < 639 | < 4.3 |
| Chloroethane | < 857 | < 5.77 |
| Chloroform | < 723 | < 4.87 |
| Chloromethane | **944 J** | **14.5 J** |
| cis-1,2-Dichloroethene | < 789 | < 5.31 |
| cis-1,3-Dichloropropene | < 428 | < 2.88 |
| Dichlorodifluoromethane | < 795 | < 5.35 |
| Ethylbenzene | **52,400 J** | **161 J** |
| Hexachlorobutadiene | < 441 | < 2.97 |
| m,p-Xylene (Sum of Isomers) | **123,000 J** | < 10.7 |
| Methyl tert-butyl ether (MTBE) | < 899 | < 6.05 |
| Methylene chloride | < 774 | < 5.21 |
| Styrene | < 561 | **41.2 J** |
| Tetrachloroethene | < 713 | < 4.8 |
| Toluene | **767,000 J** | **1,500 J** |
| trans-1,3-Dichloropropene | < 446 | < 3 |
| Trichloroethene | < 764 | **16.8 J** |
| Trichlorofluoromethane | < 796 | < 5.36 |
| Vinyl chloride | < 919 | < 6.19 |
| Xylene, o- | **41,400 J** | **77.2 J** |

**Table 2-3. Summary of Vapor Inlet and Exhaust Detected Laboratory Sample Results, April 2010 through June 2010, ST-106, Former Fuel Offloading Rack (Concluded, Page 2 of 2)**

| SVE System Inlet and Post Catalytic Converter Samples | ST-106 Former Fuel Offloading Rack SVE System | |
|---|---|---|
| | SVE Inlet | Post Cat E1 |
| | 5/14/2010 | 5/14/2010 |
| **TPH-mass (µg/L) - Method SW8015** | | |
| Gasoline Range Organics (GRO) | **77,900** | **378** |
| **Fixed Gas (percent) - Method SM2720C** | | |
| Carbon Dioxide | **3.23** | **6.99** |
| Carbon Monoxide | < .1 | < .12 |
| Methane | < .08 | < .09 |
| Nitrogen | **79.9** | **89.6** |
| Oxygen | **14.3** | **13.8** |
| **Bold** indicates analyte was detected | | |

For the Former Fuel Offloading Rack SVE system, the May 2010 laboratory reported exhaust TPH concentrations for engine E1 was 378 micrograms per liter (µg/L). The DRE calculation using the laboratory-measured combined vapor inlet and average exhaust TPH concentrations (Table 2-3) for the period of April 2010 through June 2010 is as follows.

$$Destruction\ Efficiency = \left( \frac{77{,}900 - 378}{77{,}900} \times 100 \right) = 99.5\%$$

When using the Horiba field sampling results for the SVE influent vapor stream and the average post-catalytic converter exhaust stream the DREs for May and June 2010 were 99.2- and 99.9-percent, respectively. The Horiba data are provided in Appendix A.

## 2.3 SS-111 PSH-Impacted Groundwater Interim Remedial Action

### 2.3.1 SS-111 SVE Systems Operation

During the reporting period the individual SVE systems located at wells KAFB-1065, KAFB-1066, and KAFB-1068 each extracted vapors only from the associated well as summarized in Table 2-4. Well locations are shown in Figure 2-1.

**Table 2-4. KAFB-1065, KAFB-1066, and KAFB-1068 SVE and Treatment Systems Extraction Well Number and Depth of Screened Interval**

| Extraction Well | Depth of Screened Interval (ft bgs) | Active Extraction Well During April 2010 through June 2010 |
|---|---|---|
| KAFB-1065 | 484 – top of water table | Yes |
| KAFB-1066 | 483.5 – top of water table | Yes |
| KAFB-1068 | 486 – top of water table | Yes |
| ft bgs = feet below ground surface. | | |

During the reporting period, the KAFB-1065 SVE system had at least one engine operational, which was actively removing and destroying contaminated subsurface soil vapor during 59 of the available 91 days of the reporting period, a 65 percent effective operation for the period. During the reporting period, the KAFB-1066 SVE system had at least one engine operational, which was actively removing and destroying contaminated subsurface soil vapor during 5 of the available 91 days of the reporting period, a 5.5-percent effective operation for the period. The KAFB-1066 system is the unit that experienced mechanical damage to the engines in February 2010 as a result of the preliminary emissions testing and for which repairs were then deferred pending resolution of the engine certification issues. As a result the system was only operational for the final five days of the period when it was returned from having been repaired offsite. During the reporting period, the KAFB-1068 SVE system had at least one engine operational, which was actively removing and destroying contaminated subsurface soil vapor during 79 of the available 91 days of the reporting period, an 87 percent effective operation for the period.

The operational run time percentages for each system for each month within the reporting period are provided in Appendix A. Since the SVE systems consist of ICEs that operate continuously, they require the same type of regular maintenance as an engine in any motor vehicle, such as changing the oil, oil filter, spark plugs, air filter, coolant, and other general maintenance items. Routine system maintenance is performed in accordance with the site-specific operations and maintenance manual (USAF, 2009b). A summary of the major maintenance activities, non-routine maintenance or repair activities, and system downtime during the reporting period are presented in Appendix A.

### 2.3.2 KAFB-1065, KAFB-1066, and KAFB-1068 SVE Systems Hydrocarbon Recovery

The SVE remediation systems installed in 2008 and 2009 at wells KAFB-1065, KAFB-1066, and KAFB-1068 are equipped with computer systems that allow routine data downloads of a variety of system parameters. Downloaded data includes operational snapshots at 4-hour intervals that record parameters such as the system vapor flow rate and the estimated ppmv concentration of the influent well gas to the system. With these data, essentially the same hydrocarbon mass removal calculations that have historically been completed for the SVE system at the Former Fuel Offloading Rack can be performed for each of the new SVE systems. However, these data collected directly from the new SVE systems via remote connection replace the monthly Horiba field measurements used in the cumulative recovered mass calculation at the Former Fuel Offloading Rack SVE system. As previously discussed, a description of the basic calculations used in the hydrocarbon recovery calculations are provided in Appendix A for reference.

The KAFB-1065 SVE system extracted and destroyed approximately 2,017 equivalent gallons of petroleum hydrocarbons from April 2010 through June 2010 with an additional volume of approximately 658 gallons destroyed from biodegradation assuming a flow rate of 57 scfm and an operational run-time of 40-percent using the equation described in Section 2.1.3, for a total of 2,675 gallons destroyed during the second quarter of 2010. The total historical hydrocarbon recovery for the KAFB-1065 SVE system through the end of June 2010 was approximately 76,047 gallons. Using an approximate average historical flow rate of 81.6 scfm and an average historical operational run-time of 75 percent though the first quarter of 2010, the amount of fuel destroyed from biodegradation to date is approximately 13,896 gallons. Therefore, the total hydrocarbon recovery to date for the KAFB-1065 SVE system is 89,943 gallons. Hydrocarbon recovery volumes are shown in Table 2-5.

**Table 2-5. Cumulative Hydrocarbon Recovery, April 2010 through June 2010, KAFB-1065 SVE and Treatment System**

| Field Parameter | Sample Date | Sample Date | | Sample Date | | Sample Date | |
|---|---|---|---|---|---|---|---|
| | 3/31/2010[a] | 4/30/2010 | | 5/31/2010 | | 6/30/2010 | |
| Engine | | **E1** | **E2** | **E1** | **E2** | **E1** | **E2** |
| Pounds Removed | | 1,233.98 | 881.64 | 2,917.11 | 4,498.85 | 384 | 6,548 |
| Hydrocarbon Recovery (gallons equivalent) | | 199.0 | 83.4 | 470.5 | 145.6 | 62.0 | 1,056.2 |
| Cumulative Hydrocarbon Recovery (gallons equivalent) | *74,030* [b]<br>*13,238* [c]<br>Cumulative Total = 87,268 | *74,312* [b] | | *74,928* [b] | | *76,047* [b]<br>*13,896* [c]<br>Cumulative Total = 89,943 | |

a. Represents starting cumulative recovery at end of prior period.
b. Total from SVE system
c. Total from biodegradation

The KAFB-1066 SVE system extracted and destroyed approximately 605 equivalent gallons of petroleum hydrocarbons from April 2010 through June 2010 with an additional volume of approximately 96 gallons destroyed from biodegradation assuming a flow rate of 55 scfm and an operational run-time of 6 percent using the equation described in Section 2.1.3, for a total of 701 gallons destroyed during the second quarter of 2010. The total historical hydrocarbon recovery for the KAFB-1066 SVE system through the end of June 2010 was approximately 31,012 gallons. Using an approximate average historical flow rate of 55.5 scfm and an average historical operational run-time of 43-percent though the first quarter of 2010, the amount of fuel destroyed from biodegradation to date is approximately 3,613 gallons. Therefore, the total hydrocarbon recovery to date for the KAFB-1066 SVE system is 34,625 gallons. Hydrocarbon recovery volumes are shown in Table 2-6.

**Table 2-6. Cumulative Hydrocarbon Recovery, April 2010 through June 2010, KAFB-1066 SVE and Treatment System**

| Field Parameter | Sample Date | Sample Date | |
|---|---|---|---|
| | 3/31/2010[a] | 6/30/2010 | |
| Engine | | **E1** | **E2** |
| Pounds Removed | | 1910.50 | 1836.82 |
| Hydrocarbon Recovery (gallons equivalent) | | 308.12 | 296.29 |
| Cumulative Hydrocarbon Recovery (gallons equivalent) | *30,407* [b]<br>*3,517* [c]<br>Cumulative Total = 33,924 | *31,012* [b]<br>*3,613* [c]<br>Cumulative Total = 34,625 | |

a. Represents starting cumulative recovery at end of prior period.
b. Total from SVE system
c. Total from biodegradation

The KAFB-1068 SVE system extracted and destroyed approximately 6,727 equivalent gallons of petroleum hydrocarbons from April 2010 through June 2010 with an additional volume of approximately 2,557 gallons destroyed from biodegradation assuming a flow rate of 103.5 scfm and an operational run-time of 85 percent using the equation described in Section 2.1.3, for a total of 9,284 gallons destroyed during the second quarter of 2010. The total historical hydrocarbon recovery for the KAFB-1068 SVE system through the end of June 2010 was approximately 39,528 gallons. Using an approximate average historical flow rate of 100 scfm and an average historical operational run-time of 63-percent though the first quarter of 2010, the amount of fuel destroyed from biodegradation to date is approximately 12,340 gallons. Therefore, the total hydrocarbon recovery to date for the KAFB-1068 SVE system is 51,868 gallons. Hydrocarbon recovery volumes are shown in Table 2-7.

**Table 2-7. Cumulative Hydrocarbon Recovery, April 2010 through June 2010, KAFB-1068 SVE and Treatment System**

| Field Parameter | Sample Date | Sample Date | | Sample Date | | Sample Date | |
|---|---|---|---|---|---|---|---|
| | 3/31/2010[a] | 4/30/2010 | | 5/31/2010 | | 6/30/2010 | |
| Engine | | **E1** | **E2** | **E1** | **E2** | **E1** | **E2** |
| Pounds Removed | | 5,098.8 | 5,345.4 | 8,413.9 | 7,949.3 | 8,296.7 | 6,602.3 |
| Hydrocarbon Recovery (gallons equivalent) | | 822.4 | 862.1 | 1,357.1 | 1,282.1 | 1,338.1 | 1,064.8 |
| Cumulative Hydrocarbon Recovery (gallons equivalent) | *32,801* [b]<br>*9,783* [c]<br>Cumulative Total = 42,584 | *34,486* [b] | | *37,125* [b] | | *39,528* [b]<br>*12,340* [c]<br>Cumulative Total = 51,868 | |

a. Represents starting cumulative recovery at end of prior period.
b. Total from SVE system
c. Total from biodegradation

In total, the three SS-111 SVE treatment systems extracted and destroyed 9,349 equivalent gallons during the reporting period with an additional approximately 3,311 gallons destroyed from biodegradation for a total of 12,660 gallons destroyed during the second quarter of 2010. The cumulative hydrocarbon recovery for the three SS-111 SVE systems through the end of June 2010 was approximately 146,587gallons with an additional approximately 29,849 gallons destroyed from biodegradation for a total of 176,436 gallons destroyed through the second quarter of 2010. The primary variables that impact recovery amounts for individual months was downtime due to mechanical and air emissions testing issues and the need to adjust operational settings on the systems to reduced recovery amounts due to decreasing well gas fuel concentrations as a result of interference between the systems. In order to achieve a sustainable operational mode that does not require the use of substantial supplemental propane the three SS-111 SVE systems' operating set points have been changed which in turn reduces overall fuel recovery rates. However, without adjusting the operational settings the increased operation rates would not extract any more mass from the subsurface but rather would just obtain the needed fuel inputs from supplemental propane.

### 2.3.3 KAFB-1065, KAFB-1066, and KAFB-1068 SVE System Vapor Sampling

Monthly onsite vapor sampling using the Horiba analyzer was conducted throughout the reporting period.

Samples of the combined influent soil vapor and the pre-catalytic converter and post-catalytic converter exhaust streams for laboratory analysis were collected on May 14, 2010 from the KAFB-1065 and KAFB-1068 SVE systems. The KAFB-1066 SVE system was not operational at the time of the sampling event.

The analytical vapor samples were collected as specified with the site-specific Operations and Maintenance Manual (USAF, 2009b) and in compliance with the Site Specific Quality Assurance Project Plan (QAPP) (USAF, 2010b). Samples are collected into pre-evacuated stainless steel summa canisters. The canisters were packaged and shipped under chain of custody to the CH2M HILL Applied Sciences Laboratory in Corvallis, Oregon, for the following analyses:

- VOCs including acetone, MTBE, and MEK by Method TO-15;
- Fixed gases (oxygen, nitrogen, carbon monoxide, carbon dioxide, and methane) by Method SM 2720C; and
- TPH GRO by Method SW8015.

The laboratory analytical results are summarized in Table 2-8. The complete laboratory analytical data packages for vapor samples collected this reporting period are included with all other site analytical data in Appendix B. Appendix B presents the Data Quality Evaluation (DQE) Report for the data collected for this quarter. The data are collected and then evaluated and validated as specified in the site-specific QAPP for the Bulk Fuels Facility (USAF, 2010b). Several iterations of a site-specific QAPP have been updated over time to direct quality assurance for the Bulk Fuels Facility site. The current version, updated in 2010, meets the required content guidelines of the Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP) as documented in the Intergovernmental Data Quality Task Force UFP-QAPP, Evaluating, Assessing and Documenting Environmental Data Collection and Use Program (EPA, 2005).

The analytical data for the influent and exhaust samples provide information on the nature of the subsurface vapor constituents. As historically has been the case, during this reporting period most positively detected compounds in the influent soil vapor samples and those with the highest relative concentrations were fuel-related compounds. Also as discussed during previous reporting periods, concentrations of the compounds acetone and MEK continue to be detected in substantial quantities in the SVE influent. It has been determined that these ketone compounds are byproducts associated with the degradation of fuel-related VOCs. Low concentrations of some halogenated compounds were detected during this reporting period in vapor samples. Similar low and transient concentrations of halogenated compounds have been historically observed and the presence of such compounds will continue to be monitored. Prior quarters' influent and exhaust soil vapor results are presented in Appendix C.

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**Table 2-8. Summary of Vapor Inlet and Exhaust Detected Laboratory Sample Results, April 2010 through June 2010, KAFB-1065 and KAFB-1068 SVE Systems (Continued, Page 1 of 2)**

| SVE System Inlet and Post Catalytic Converter Samples | 1065 SVE System | | | 1068 SVE System | | |
|---|---|---|---|---|---|---|
| | SVE Inlet | Post Cat E1 | Post Cat E2 | SVE Inlet | Post Cat E1 | Post Cat E2 |
| | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 |
| **VOC (ppbv) - EPA Method TO-15** | | | | | | |
| 1,1,1-Trichloroethane | < 20.9 | < 5.11 | < 4.66 | < 422 | < 8.85 | < 1.13 |
| 1,1,2,2-Tetrachloroethane | **300 J** | < 5.68 | < 5.18 | < 469 | < 13.5 | < 1.26 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | < 29.9 | < 7.31 | < 6.66 | < 603 | < 9.36 | < 1.62 |
| 1,1,2-Trichloroethane | < 25.3 | < 6.19 | < 5.64 | < 511 | < 8.85 | < 1.37 |
| 1,1-Dichloroethane | < 28.7 | < 7.03 | < 6.4 | < 580 | < 11.9 | < 1.56 |
| 1,1-Dichloroethene | < 15 | < 3.67 | < 3.34 | < 303 | < 7.85 | < .81 |
| 1,2,4-Trichlorobenzene | < 23.5 | < 51 | < 5.24 | < 4210 | < 17.2 | < 11.3 |
| 1,2,4-Trimethylbenzene | **1,060 J** | < 51 | **63.4 J** | **7,130 J** | < 11.7 | < 11.3 |
| 1,2-Dibromoethane (EDB) | **38.2 J** | < 4.88 | < 4.44 | **423 J** | < 9.57 | < 1.08 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | < 29 | < 7.09 | < 6.46 | < 585 | < 99.5 | < 1.57 |
| 1,2-Dichlorobenzene | < 21.8 | < 5.33 | < 4.86 | < 440 | < 11.9 | < 1.18 |
| 1,2-Dichloroethane (EDC) | **55.9 J** | < 6.46 | < 5.88 | < 533 | < 9.47 | < 1.43 |
| 1,2-Dichloropropane | < 25.4 | < 6.22 | < 5.67 | < 514 | **870 J** | < 1.38 |
| 1,3,5-Trimethylbenzene | **512 J** | **16.4 J** | **40.3 J** | **3,550 J** | < 13.7 | < 1.3 |
| 1,3-Dichlorobenzene | < 21.2 | < 5.19 | < 4.73 | < 428 | < 10.1 | < 1.15 |
| 1,4-Dichlorobenzene | < 21.2 | < 51 | < 4.72 | < 428 | < 15.1 | < 1.15 |
| 2-Butanone (MEK) | < 8.29 | **40.2 J** | **43.7 J** | **1,730 J** | < 13.7 | < .45 |
| Acetone | < 95.3 | **1,460 J** | **709 J** | < 1920 | < 11.8 | < 5.16 |
| Benzene | **16,200 J** | **6,540 J** | **6,750 J** | **138,000 J** | **19,800 J** | **781 J** |
| Bromomethane | < 208.5 | < 73 | < 68.3 | < 4210 | < 99.5 | < 11.3 |
| Carbon tetrachloride | < 11.7 | < 2.86 | < 2.61 | < 236 | < 7.1 | < .63 |
| Chlorobenzene | < 25.6 | < 6.27 | < 5.71 | < 517 | < 8.75 | < 1.39 |
| Chloroethane | < 34.4 | < 8.4 | < 7.65 | < 694 | < 11.4 | < 1.86 |
| Chloroform | < 29 | < 7.09 | < 6.46 | < 586 | < 11.9 | < 1.57 |
| Chloromethane | **54.6 J** | **21.1 J** | **35.4 J** | **564 J** | **20.3 J** | **2 J** |
| cis-1,2-Dichloroethene | < 31.6 | < 7.74 | < 7.05 | < 639 | < 9.36 | < 1.71 |
| cis-1,3-Dichloropropene | < 17.2 | < 4.2 | < 3.83 | < 347 | < 10 | < .93 |
| Dichlorodifluoromethane | < 31.9 | < 7.8 | < 7.1 | < 644 | < 7.1 | < 1.73 |
| Ethylbenzene | **2,170 J** | **103 J** | **223 J** | **21,400 J** | < 14.4 | **4.44 J** |
| Hexachlorobutadiene | < 17.7 | < 51 | < 3.94 | < 357 | < 16.3 | < 11.3 |
| m,p-Xylene (Sum of Isomers) | **7,370 J** | < 15.6 | **619 J** | **30,600 J** | < 29.3 | < 3.45 |
| Methyl tert-butyl ether (MTBE) | < 36.1 | < 8.82 | < 8.03 | < 728 | < 14.2 | < 1.95 |

**Table 2-8. Summary of Vapor Inlet and Exhaust Detected Laboratory Sample Results, April 2010 through June 2010, KAFB-1065 and KAFB-1068 SVE Systems (Concluded, Page 2 of 2)**

| SVE System Inlet and Post Catalytic Converter Samples | 1065 SVE System | | | 1068 SVE System | | |
|---|---|---|---|---|---|---|
| | SVE Inlet | Post Cat E1 | Post Cat E2 | SVE Inlet | Post Cat E1 | Post Cat E2 |
| | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 | 5/14/2010 |
| **VOC (ppbv) - EPA Method TO-15** | | | | | | |
| Methylene chloride | < 31.1 | < 7.6 | < 6.92 | < 627 | < 15.3 | < 1.68 |
| Styrene | < 22.5 | **44.1 J** | **167 J** | < 454 | < 13.2 | < 1.22 |
| Tetrachloroethene | < 28.6 | < 6.99 | < 6.37 | < 577 | **24.4 J** | < 1.55 |
| Toluene | **31,400 J** | **2,980 J** | **5,290 J** | **318,000 J** | **52.1 J** | **44.9 J** |
| trans-1,3-Dichloropropene | < 17.9 | < 4.37 | < 3.98 | < 361 | < 13 | < .97 |
| Trichloroethene | < 30.6 | < 7.49 | < 6.83 | < 619 | **61.8 J** | < 1.66 |
| Trichlorofluoromethane | < 31.9 | < 7.8 | < 7.11 | < 644 | < 5.11 | < 1.73 |
| Vinyl chloride | < 36.9 | < 9.02 | < 8.21 | < 744 | < 7.23 | < 2 |
| Xylene, o- | **2,340 J** | **112 J** | **304 J** | **18,200 J** | < 11.3 | **4.18 J** |
| **TPH-mass (µg/L) - Method SW8015** | | | | | | |
| Gasoline Range Organics (GRO) | **70,300** | **193** | **755** | **64,700** | **3,500** | **271** |
| **Fixed Gas (percent) – Method SM2720C** | | | | | | |
| Carbon Dioxide | **2.85** | **9.04** | **6.2** | **1.56** | **9.62** | **.37 J** |
| Carbon Monoxide | < .15 | < .09 | < .09 | < .11 | < .1 | < .09 |
| Methane | < .11 | < .07 | < .07 | < .08 | < .07 | < .07 |
| Nitrogen | **91.7** | **76.7** | **81** | **78** | **96.3** | **81.5** |
| Oxygen | **18.6** | **6.96** | **12.8** | **14** | **8.93** | **22.5** |
| **Bold** indicates analyte was detected | | | | | | |

The analytical data from the SVE system influent and exhaust streams provide information on the nature of subsurface vapor compounds and are an indicator of system performance as it relates to destruction efficiency. Because the method of calculating the system-specific destruction efficiency is the same for the SS-111 SVE systems as the ST-106 system, and was discussed in Section 2.2.3 above, the actual calculations will not be shown here; only the results of the DRE calculations are presented.

- When using the Horiba field sampling results for the SVE influent vapor stream and the average post-catalytic converter exhaust stream (data presented in Appendix A) the DREs for the KAFB-1065 SVE system for May and June 2010 were 99.4- and 98.5-percent, respectively. The May 2010 laboratory results reported the KAFB-1065 system combined inlet TPH concentration was 70,300 μg/L and the exhaust TPH concentrations for engines E1 and E2 were 193 μg/L and 755 μg/L, respectively (averaging 474 μg/L). The calculated DRE for the KAFB-1065 SVE system for the period of April 2010 through June 2010 is 99.3 percent.

- When using the Horiba field sampling results for the SVE influent vapor stream and the average post-catalytic converter exhaust stream (data presented in Appendix A) the DRE for the KAFB-1066 SVE system for June 2010 was 99.7-percent (the system was not operating in May). The KAFB-1066 SVE system was not operating when analytical samples were collected from the inlet and exhausts in May 2010. As such DREs from the laboratory measurements for May were not able to be calculated.

- The DREs for the KAFB-1068 SVE system for May and June of 2010 were 97.8 and 96.3 percent, respectively. The May 2010 laboratory results reported the KAFB-1068 system combined inlet TPH concentration was 64,700 μg/L and the exhaust TPH concentrations for engines E1 and E2 were 3,500 μg/L and 271 μg/L, respectively (averaging 1,885.5 μg/L ). The calculated DRE for the KAFB-1068 SVE system for the period of April 2010 through June 2010 is 97.1-percent.

## 2.4 Waste Generation

Although, the maintenance activities for the SVE and treatment systems generate both non-hazardous and Resource Conservation and Recovery Act (RCRA) hazardous wastes, during the reporting period, no waste was removed from the site for disposal.

Liquid condensate is another waste stream associated with SVE operation. The liquid condensate is primarily generated during cooler-season months (typically October through April) as warm, moisture-laden subsurface soil vapor moves up the extraction wells to the surface and is transported through the cold surface piping. During the reporting period, liquid condensate was not generated and therefore, not disposed of from the site.

All waste generated at the site is disposed of in compliance with the site-specific waste management procedures outlined in the site Operations and Maintenance Plan (USAF, 2010b). Procedures in the Operations and Maintenance Plan are in compliance with the Kirtland AFB Investigation Derived Waste Management Plan, issued in 2009 (USAF, 2009c) which incorporated specific direction and consideration of the waste streams generated in association with the Bulk Fuels Facility remediation.

## 2.5 SVE and Treatment Systems Operational Summary

Four SVE and treatment systems operated at the Bulk Fuels Facility during the period from April 2010 through June 2010. One system, referred to as the Former Fuel Offloading Rack system, continued to operate as the approved Stage 2 Abatement action for the vadose zone contamination associated with SWMU ST-106. The other three SVE systems operated as interim remedial measures being applied directly to the PSH on the water table aspect of the site that has been designated as SWMU SS-111. The DREs the various SVE systems ranged from 97.8 to 99.9 percent removal during the months of the reporting period.

During the reporting period the SVE and treatment systems recovered the following amounts:

- The cumulative hydrocarbon recovery for the Former Fuel Offloading Rack SVE system through the end of June 2010 was approximately 225,864 gallons. The SVE system and biodegradation destroyed a total of 6,656 equivalent gallons of petroleum hydrocarbons during the reporting period.

- The cumulative hydrocarbon recovery for the KAFB-1065 SVE system and biodegradation was approximately 89,943 gallons through the end of June 2010. The KAFB-1065 SVE system and biodegradation destroyed a total of 2,675 equivalent gallons of petroleum hydrocarbons during the reporting period.

- The cumulative hydrocarbon recovery for the KAFB-1066 SVE system and biodegradation was approximately 34,625 gallons through the end of June 2010. The KAFB-1066 SVE system and biodegradation destroyed a total of 701 equivalent gallons of petroleum hydrocarbons during the reporting period.

- The cumulative hydrocarbon recovery for the KAFB-1068 SVE system and biodegradation was approximately 51,868 gallons through the end of June 2010. The KAFB-1068 SVE system and biodegradation destroyed a total of 9,284 equivalent gallons of petroleum hydrocarbons during the reporting period.

- The cumulative hydrocarbon recovery from all SVE systems and biodegradation was approximately 402,300 gallons through the end of June 2010.

The ongoing operation of the KAFB-1065 SVE system and the further addition of the KAFB-1066 and KAFB-1068 SVE systems in March 2009 have substantially changed the subsurface vapor extraction regime at the water table interface across the Bulk Fuels Facility site. With the ongoing operation of these three SVE systems decreases in the gross hydrocarbon concentrations of the vapor inlets have been observed.

Operational changes and additional infrastructure modifications continue to be evaluated to optimize the operation of the ST-106 and SS-111 interim SVE and treatment systems. The goal of the optimization efforts will be to extract the maximum amount of required combustion constituents (fuel and oxygen) from the subsurface, thereby maximizing overall mass recovery rates, and achieving the highest possible total mass removal from the four combined SVE systems in their current configurations. Work planning efforts in progress now will identify additional modifications to the SVE approach at the site that may modify the use of the current SVE systems or supplement them with other remediation approaches in the future.

# 3. SITE INVESTIGATION

## 3.1 Site Investigation Objectives

This section summarizes ongoing site investigation activities that occurred at the Kirtland AFB Bulk Fuels Facility site from April 2010 through June 2010 and pertain to data described and reported in this report. Ongoing investigation activities are systematically addressing data gaps related to release mechanisms, source area delineation, and delineation of PSH and dissolved-phase groundwater impacts in order to support selection of a full-scale remediation approach for this site. Installation and sampling of three additional groundwater monitoring wells was completed in accordance with NMED-GWQB Stage 2 Abatement Plan addenda and subsequent NMED-HWB approval and direction. The activities associated with the particular well installations described here will also be reported in a formal report as stipulated by the NMED-HWB April 2, 2010 letter (NMED-HWB, 2010b) regarding these well installations and other directed data collection specified in that letter. That report will be submitted to the NMED-HWB separately by October 5, 2010. However, since groundwater data associated with these most recent well installations is presented here the well installation activities themselves are briefly described in this section and a Well Completion Report is provided in Appendix E. Much of the information presented here and in Appendix E will be additionally submitted in conjunction with the October 5, 2010 report.

## 3.2 Groundwater Monitoring Well Installation

During the second quarter of 2010, field work was conducted to install three additional groundwater monitoring wells in association with the Bulk Fuels Facility investigation as shown on Figure 3-1. Well installation proceeded according to the *Stage 2 Abatement Plan Modification* (USAF, 2007), the February 2010 *Stage 2 Abatement Plan Modification Addendum* (USAF, 2010a) approved by the NMED-GWQB, and as directed by the NMED-HWB's April 2, 2010 letter to Kirtland AFB (NMED-HWB, 2010b).

The new wells, designated KAFB-10626, KAFB-10627, and KAFB-10628 were completed during April and May 2010 and supplement the other existing 25 site groundwater monitoring wells. The borehole for well KAFB-10628, located in Bullhead Park, was also used to concurrently install four soil vapor monitoring points. Additionally, soil core samples were collected above and below the water table at this location and analyzed by PTS Laboratories for grain size analysis, Atterberg limits, Unified Soil Classification System (USCS) soil classification, total organic carbon, soil pH, cation exchange capacity, pore fluid saturation, air/water drainage, capillarity, free product mobility, and effective porosity. A full discussion of the entire monitoring well installation field effort completed during the second quarter 2010 is presented in the Well Construction Report provided as Appendix E.

Groundwater sample results for the new wells, both post-development samples and samples collected as part of the second quarter 2010 groundwater sampling event were collected during this reporting period and are discussed with all other groundwater monitoring data in Section 5.

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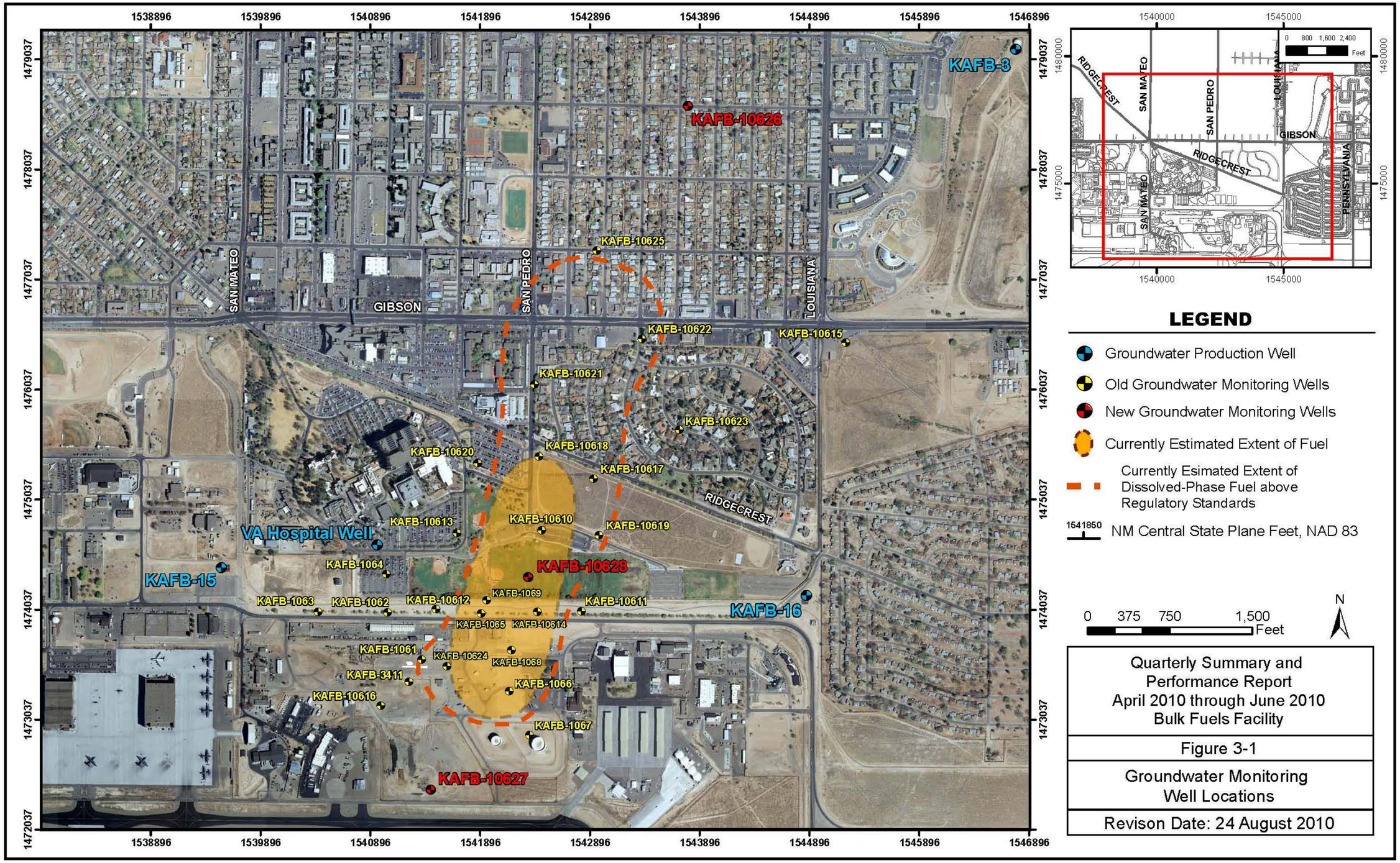
KAFB-3
KAFB-10626
KAFB-10625
KAFB-10622
KAFB-10615
KAFB-10621
KAFB-10623
KAFB-10620
KAFB-10618
KAFB-10617
KAFB-10613
KAFB-10610
KAFB-10619
VA Hospital Well
KAFB-15
KAFB-1064
KAFB-10628
KAFB-1069
KAFB-1063
KAFB-1062
KAFB-10612
KAFB-10611
KAFB-16
KAFB-1065
KAFB-10614
KAFB-1061
KAFB-10624
KAFB-1068
KAFB-3411
KAFB-1066
KAFB-10616
KAFB-1067
KAFB-10627
GIBSON
SAN MATEO
SAN PEDRO
LOUISIANA
RIDGECREST
PENNSYLVANIA
1538896
1539896
1540896
1541896
1542896
1543896
1544896
1545896
1546896
1479037
1478037
1477037
1476037
1475037
1474037
1473037
1472037
1540000
1545000
1480000
1475000
0 800 1,600 2,400 Feet
LEGEND
Groundwater Production Well
Old Groundwater Monitoring Wells
New Groundwater Monitoring Wells
Currently Estimated Extent of Fuel
Currently Esimated Extent of Dissolved-Phase Fuel above Regulatory Standards
1541850
NM Central State Plane Feet, NAD 83
0 375 750 1,500 Feet
N
Quarterly Summary and Performance Report
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Figure 3-1
Groundwater Monitoring Well Locations
Revison Date: 24 August 2010

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# 4 VADOSE ZONE MONITORING

## 4.1 Vadose Zone Monitoring Description

The Former Fuel Offloading Rack SVE remediation system includes 13 SVEWs and 15 individual SVMW locations, each completed with three to four nested wells at different depths, for a total of 58 individual SVMW screen intervals. The well locations are shown on Figure 4-1). Figure 4-1 also depicts a series of cross-section lines on the plan view figure that correlate to the cross-sectional views of geology and soil vapor data presented on other figures later in the section. Additionally, the SS-111 SVE systems include wells KAFB-1065, -1066, and -1068. Soil vapor samples and subsurface pressure measurements were collected for the second quarter of 2010 from SVMWs, SVEWs, and groundwater monitoring wells throughout April, May, and June 2010. Sample dates and data are presented in Table 4-1. The SVE system monitoring was conducted in accordance with the schedule presented in the *Stage 2 Abatement Plan Summary and Performance Report for the Soil Vapor Extraction and Treatment System, Bulk Fuels Facility (ST-106)* (USAF, 2006). During monitoring of the Former Fuel Offloading Rack area monitoring wells (SVMW-01 through SVMW-11) and the distal monitoring wells (SVMW-12 through SVMW-15), samples and measurements were collected through the sample ports installed at the top of each individual well casing. For the SVEWs, samples and measurements are collected through the sample ports installed immediately below each well's shutoff ball valve at the base of the well-control manifold. Vapor samples and measurements are also collected from the unsaturated screen intervals in the groundwater monitoring wells through sample ports installed in the Bennett pump wellhead fittings.

During this quarterly sampling event, soil vapor samples were analyzed onsite using the Horiba emissions analyzer for hydrocarbon concentration (ppmv) and for percent oxygen ($O_2$), carbon monoxide (CO), and carbon dioxide ($CO_2$). Beginning in the third quarter 2010, laboratory samples will also be collected from soil vapor monitoring wells. Collection and field measurements of soil vapor currently follow the procedures presented in detail in Section 4.6 of the *Operations and Maintenance Manual* (USAF, 2009b). Pressure measurements were collected with Magnehelic® gauges in units of inches of water. Collection of pressure measurements follow procedures presented in Section 4.5 of the *Operations and Maintenance Manual* (USAF, 2009b).

The site-wide quarterly pressure monitoring and Horiba field analytical results are summarized in Table 4-1. During soil vapor sampling, measurements that indicate the vadose zone is subject to vacuum are reported on data tables as negative numbers. Measurements that indicate the vadose zone is subject to positive pressure are shown as positive numbers. Measurements that indicate the vadose zone is at equilibrium with ambient atmospheric pressure and have neither pressure nor vacuum (zero gauge reading) are reported as atmosphere pressure unit (atm).

The soil vapor data collected during this reporting period are discussed in Section 4.1.1. A summary of the vadose zone conditions and conclusions are presented in Section 4.1.2. For reference, historical figures of the approximate soil vapor distribution measured beneath the site in prior quarters are presented in Appendix C.

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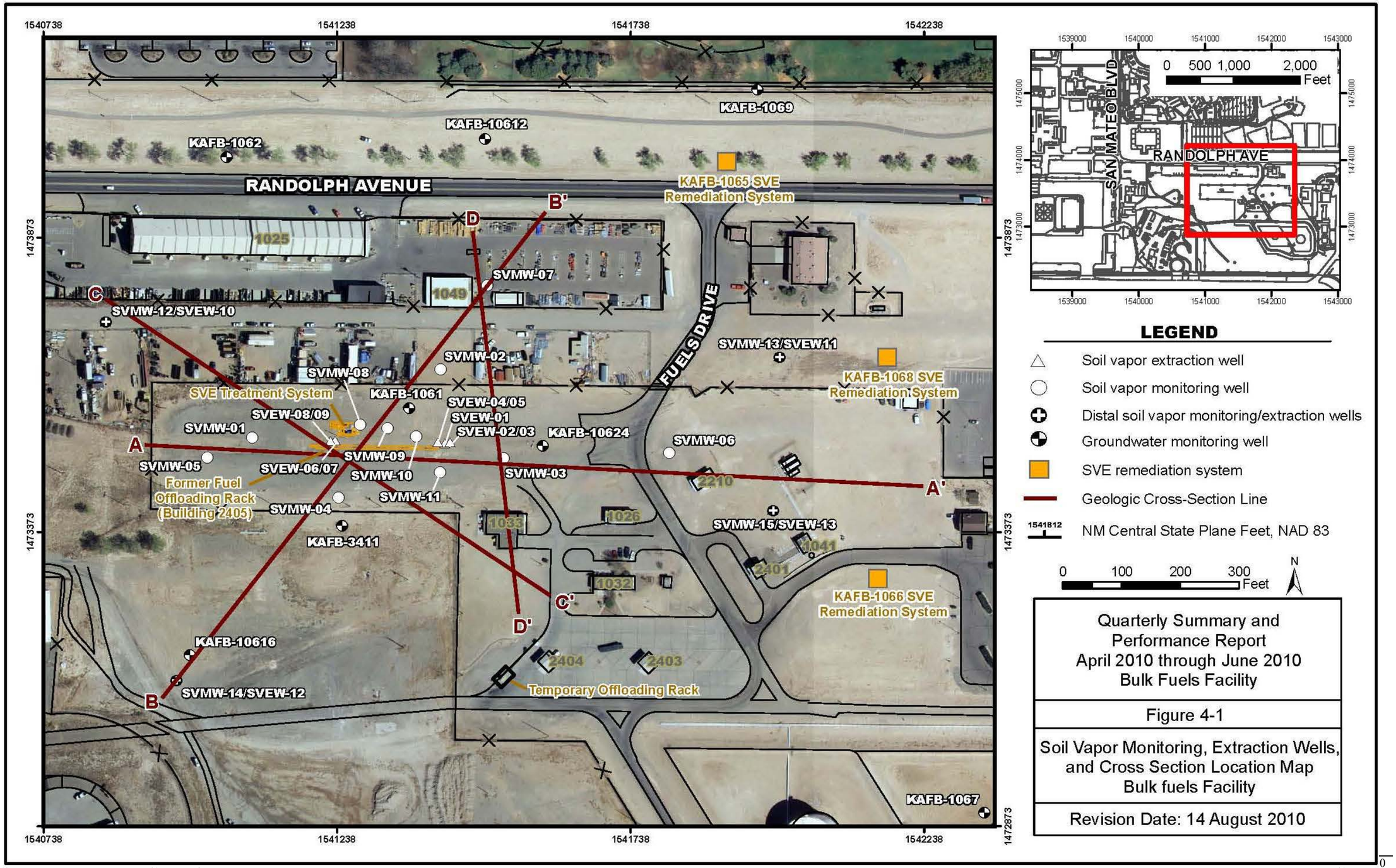


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Figure 4-1

Soil Vapor Monitoring, Extraction Wells, and Cross Section Location Map
Bulk fuels Facility

Revision Date: 14 August 2010

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## Table 4-1. Soil Vapor Monitoring Summary, Bulk Fuels Facility

| Well Location | Screen Depth (ft bgs) | Sample Date | Pressure (in $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-01 | 50 - 52.5 | 5/13/10 | Well covered by construction equipment, unable to sample | | | | |
| SVMW-01 | 100 - 102.5 | 5/13/10 | Well covered by construction equipment, unable to sample | | | | |
| SVMW-01 | 250.7 - 253.2 | 5/13/10 | Well covered by construction equipment, unable to sample | | | | |
| SVMW-01 | 308.5 - 310 | 5/13/10 | Well covered by construction equipment, unable to sample | | | | |
| SVMW-02 | 50 - 52.5 | 5/13/10 | 0.05 | 0.00 | 5.22 | 14.28 | 621 |
| SVMW-02 | 97 - 99.5 | 5/13/10 | 0.09 | 0.00 | 7.48 | 11.97 | 8,590 |
| SVMW-02 | 150 - 152.5 | 5/13/10 | -1.7 | 0.00 | 1.10 | 18.03 | 1,966 |
| SVMW-03 | 50 - 52.5 | 5/13/10 | 0.06 | 0.00 | 5.72 | 15.76 | 427 |
| SVMW-03 | 100 - 102.5 | 5/13/10 | -0.14 | 0.01 | 7.80 | 10.80 | 27,900 |
| SVMW-03 | 250 - 252.5 | 5/13/10 | -2.0 | 0.00 | 1.98 | 16.39 | 3,130 |
| SVMW-03 | 300 - 302.5 | 5/13/10 | -1.8 | 0.00 | 1.54 | 18.41 | 8,190 |
| SVMW-04 | 50 - 52.5 | 5/13/10 | 0.08 | 0.00 | 7.48 | 9.76 | 2,240 |
| SVMW-04 | 98 - 100.5 | 5/13/10 | 0.12 | 0.01 | 8.50 | 9.68 | 25,020 |
| SVMW-04 | 250 - 252.5 | 5/13/10 | -1.9 | 0.00 | 1.48 | 18.64 | 3,430 |
| SVMW-04 | 297.5 - 300 | 5/13/10 | -1.7 | 0.00 | 0.46 | 19.60 | 960 |
| SVMW-05 | 50 - 52.5 | 5/13/10 | 0.02 | 0.00 | 4.36 | 16.61 | 1,085 |
| SVMW-05 | 100 - 102.5 | 5/13/10 | 0.02 | 0.00 | 4.60 | 15.09 | 1,100 |
| SVMW-05 | 229.5 - 231 | 5/13/10 | -1.7 | 0.00 | 0.94 | 19.39 | 543 |
| SVMW-05 | 287.5 - 290 | 5/13/10 | -1.6 | 0.00 | 0.36 | 20.09 | 500 |
| SVMW-06 | 50 - 52.5 | 5/13/10 | -0.12 | 0.00 | 2.00 | 18.69 | 155 |
| SVMW-06 | 99.5 - 102 | 5/13/10 | -0.20 | 0.00 | 2.22 | 16.37 | 129 |
| SVMW-06 | 252 - 254.5 | 5/13/10 | -1.00 | 0.00 | 2.48 | 15.55 | 5,380 |
| SVMW-06 | 302.5 - 305 | 5/13/10 | -1.70 | 0.01 | 1.52 | 15.20 | 16,155 |
| SVMW-07 | 49.5 - 52 | 5/13/10 | -2.4 | 0.00 | 0.58 | 18.16 | 280 |
| SVMW-07 | 95.5 - 98 | 5/13/10 | -0.19 | 0.00 | 4.52 | 15.40 | 1,303 |
| SVMW-07 | 147.5 - 150 | 5/13/10 | 0.04 | 0.00 | 4.30 | 15.93 | 176 |
| SVMW-08 | 50 - 52.5 | 5/13/10 | 0.03 | 0.02 | 7.34 | 11.66 | 6,630 |
| SVMW-08 | 100 - 102.5 | 5/13/10 | Sample port is clogged, unable to sample | | | | |
| SVMW-08 | 250 - 252.5 | 5/13/10 | -1.6 | 0.01 | 1.46 | 19.58 | 2,040 |
| SVMW-08 | 266 - 268.5 | 5/13/10 | Sample port is clogged, unable to sample | | | | |
| SVMW-09 | 50 - 52.5 | 5/13/10 | -0.08 | 0.00 | 8.00 | 11.00 | 3,330 |
| SVMW-09 | 100 - 102.5 | 5/13/10 | -0.20 | 0.04 | 13.30 | 5.64 | 30,060 |
| SVMW-09 | 250 - 252.5 | 5/13/10 | -2.0 | 0.00 | 1.60 | 18.96 | 3,480 |
| SVMW-09 | 266 - 268.5 | 5/13/10 | -2.0 | 0.01 | 1.96 | 18.60 | 16,965 |
| SVMW-10 | 50 - 52.5 | 5/13/10 | -0.10 | 0.03 | 9.50 | 9.62 | 37,620 |
| SVMW-10 | 100 - 102.5 | 5/13/10 | -0.19 | 0.05 | 11.80 | 7.57 | 52,740 |
| SVMW-10 | 150 - 152.5 | 5/13/10 | -1.80 | 0.05 | 7.28 | 9.92 | 34,650 |
| SVMW-10 | 250 - 252.5 | 5/13/10 | -2.20 | 0.01 | 2.72 | 17.03 | 20,070 |
| SVMW-11 | 50 - 52.5 | 5/13/10 | -0.10 | 0.00 | 8.50 | 8.00 | 8,800 |
| SVMW-11 | 100 - 102.5 | 5/13/10 | -0.22 | 0.02 | 17.16 | 0.83 | 53,280 |
| SVMW-11 | 250 - 252.5 | 5/13/10 | -2.50 | 0.03 | 7.46 | 13.17 | 50,400 |
| SVMW-11 | 260 - 262.5 | 5/13/10 | -2.10 | 0.03 | 7.52 | 14.19 | 12,123 |
| SVMW-12 | 150 - 152.5 | 5/12/10 | 0.42 | 0.00 | 0.08 | 20.79 | 333 |
| SVMW-12 | 250 - 252.5 | 5/12/10 | 0.6 | 0.00 | 0.18 | 20.49 | 691 |

## Table 4-1. Soil Vapor Monitoring Summary, Bulk Fuels Facility

| Well Location | Screen Depth (ft bgs) | Sample Date | Pressure (in $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-12 | 350 - 352.5 | 5/12/10 | 0.46 | 0.00 | 0.90 | 17.10 | 692 |
| SVMW-12 | 450 - 452.5 | 5/12/10 | 0.58 | 0.00 | 0.22 | 20.32 | 871 |
| SVMW-13 | 150 - 152.5 | 5/12/10 | -0.10 | 0.00 | 0.80 | 17.31 | 10,305 |
| SVMW-13 | 250 - 252.5 | 5/12/10 | 0.28 | 0.00 | 0.64 | 17.44 | 4,150 |
| SVMW-13 | 350 - 352.5 | 5/12/10 | 0.5 | 0.00 | 1.24 | 17.53 | 363 |
| SVMW-13 | 450 - 452.5 | 5/12/10 | 0.48 | 0.00 | 0.62 | 17.95 | 373 |
| SVMW-14 | 150 - 152.5 | 5/12/10 | 0.4 | 0.00 | 0.20 | 20.36 | 206 |
| SVMW-14 | 250 - 252.5 | 5/12/10 | 0.42 | 0.00 | 0.22 | 20.53 | 81 |
| SVMW-14 | 350 - 352.5 | 5/12/10 | 0.56 | 0.00 | 0.16 | 20.60 | 200 |
| SVMW-14 | 450 - 452.5 | 5/12/10 | 0.31 | 0.01 | 1.80 | 12.29 | 3,230 |
| SVMW-15 | 150 - 152.5 | 5/12/10 | 0.39 | 0.00 | 0.42 | 18.14 | 510 |
| SVMW-15 | 250 - 252.5 | 5/12/10 | 0.45 | 0.00 | 0.48 | 18.43 | 387 |
| SVMW-15 | 350 - 352.5 | 5/12/10 | 0.28 | 0.00 | 0.60 | 17.38 | 12,150 |
| SVMW-15 | 450 - 452.5 | 5/12/10 | 0.01 | 0.01 | 1.56 | 17.17 | 30,690 |
| SVEW-01 | 245 - 260 | 4/7/10 | <-30 | 0.00 | 3.86 | 15.33 | 8,200 |
| SVEW-01 | 245 - 260 | 5/14/10 | -7.0 | 0.01 | 2.58 | 17.12 | 14,724 |
| SVEW-01 | 245 - 260 | 6/29/10 | -8.5 | 0.03 | 4.88 | 14.51 | 29,880 |
| SVEW-02 | 45 - 60 | 5/14/10 | 0.20 | 0.00 | 3.36 | 15.80 | 2,530 |
| SVEW-02 | 45 - 60 | 6/29/10 | ATM | 0.00 | 0.64 | 20.35 | 1,025 |
| SVEW-03 | 145 - 160 | 5/14/10 | -0.16 | 0.00 | 0.20 | 20.85 | 494 |
| SVEW-03 | 145 - 160 | 6/29/10 | -2.0 | 0.00 | 1.34 | 19.50 | 409 |
| SVEW-04 | 298 - 313 | 5/14/10 | -0.23 | 0.00 | 2.02 | 18.96 | 460 |
| SVEW-04 | 298 - 313 | 6/29/10 | -2.5 | 0.00 | 0.34 | 20.70 | 899 |
| SVEW-05 | 445 - 460 | 5/14/10 | -0.50 | 0.00 | 3.76 | 17.00 | 17,955 |
| SVEW-05 | 445 - 460 | 6/29/10 | -3.0 | 0.00 | 1.76 | 17.71 | 15,183 |
| SVEW-06 | 45 - 60 | 5/14/10 | 0.28 | 0.00 | 2.98 | 16.50 | 516 |
| SVEW-06 | 45 - 60 | 6/29/10 | 0.03 | 0.00 | 0.10 | 21.19 | 435 |
| SVEW-07 | 145 - 160 | 5/14/10 | -0.23 | 0.00 | 0.18 | 20.90 | 179 |
| SVEW-07 | 145 - 160 | 6/29/10 | -2.0 | 0.00 | 0.02 | 21.11 | 284 |
| SVEW-08 | 245 - 260 | 5/14/10 | -22.0 | 0.00 | 0.04 | 21.08 | 274 |
| SVEW-08 | 245 - 260 | 6/29/10 | -20.5 | 0.00 | 0.38 | 20.28 | 328 |
| SVEW-09 | 435 - 450 | 5/14/10 | -22.0 | 0.00 | 0.92 | 17.49 | 3,450 |
| SVEW-09 | 435 - 450 | 6/29/10 | -20 | 1/0/00 | 1.18 | 16.29 | 4,050 |
| SVEW-10 | 400 - 410 | 5/12/10 | 0.64 | 0.00 | 0.10 | 20.69 | 751 |
| SVEW-11 | 400 - 410 | 5/12/10 | 0.26 | 0.00 | 0.52 | 18.37 | 4,350 |
| SVEW-12 | 400 - 410 | 5/12/10 | 0.53 | 0.00 | 0.14 | 20.08 | 360 |
| SVEW-13 | 400 - 410 | 5/12/10 | 0.23 | 0.01 | 1.14 | 17.63 | 17,694 |
| KAFB-1061 | 483 - 508 | 5/12/10 | 0.01 | 0.00 | 0.34 | 19.64 | 937 |
| KAFB-1062 | 479 - 504 | 5/11/10 | 1.2 | 0.00 | 0.04 | 20.87 | 438 |
| KAFB-1063 | 476 - 501 | 5/11/10 | 0.32 | 0.00 | 0.00 | 20.75 | 381 |
| KAFB-1064 | 484 - 509 | 5/13/10 | -0.02 | 0.00 | 0.02 | 20.91 | 257 |
| KAFB-1065 | 479 - 506 | 6/16/10 | Data not collected | | | | 12,834 |
| KAFB-1065 | 479 - 506 | 4/6/10 | <-30 | 0.00 | 9.54 | 3.57 | 34,290 |
| KAFB-1066 | 483.5 - 508.5 | 4/6/10 | <-30 | 0.00 | 4.34 | 10.90 | 44,280 |

## Table 4-1. Soil Vapor Monitoring Summary, Bulk Fuels Facility

| Well Location | Screen Depth (ft bgs) | Sample Date | Pressure (in $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| KAFB-1066 | 483-5 - 508.5 | 5/12/10 | 0.04 | 0.01 | 2.38 | 16.06 | 22,860 |
| KAFB-1067 | 484 - 509 | 5/11/10 | 0.36 | 3.60 | 12.69 | 8.56 | 6,508 |
| KAFB-1068 | 486 - 511 | 6/21/10 | Data not collected | | | | 13,806 |
| KAFB-1068 | 486 - 511 | 4/6/10 | <-30 | 0.00 | 2.38 | 13.22 | 32,490 |
| KAFB-1069 | 480 - 505 | 4/6/10 | <-30 | 0.00 | 8.76 | 6.31 | 49,770 |
| KAFB-1069 | 480 - 505 | 5/12/10 | -0.06 | 0.02 | 2.04 | 18.76 | 26,370 |
| KAFB-10610 | 483 - 508 | 4/6/10 | <-28 | 0.00 | 0.76 | 19.51 | 22,860 |
| KAFB-10610 | 483 - 508 | 5/14/10 | -0.42 | 0.00 | 0.32 | 20.22 | 11,160 |
| KAFB-10611 | 486 - 511 | 5/11/10 | 0.10 | 0.00 | 0.04 | 20.63 | 880 |
| KAFB-10612 | 480.5 - 505.5 | 5/11/10 | 1.00 | 0.00 | 1.80 | 14.34 | 436 |
| KAFB-10613 | 486.5 - 511.5 | 5/13/10 | -0.76 | 0.00 | 0.04 | 21.23 | 406 |
| KAFB-10614 | 486 - 511 | 4/6/10 | <-30 | 0.00 | 3.38 | 12.81 | 60,390 |
| KAFB-10614 | 486 - 511 | 5/11/10 | 2.10 | 0.00 | 0.16 | 19.59 | 1,151 |
| KAFB-10615 | 485 - 510 | 5/11/10 | 0.43 | 0.00 | 0.20 | 20.87 | 1,284 |
| KAFB-10616 | 475 - 500 | 5/12/10 | 0.22 | 0.00 | 0.14 | 19.02 | 594 |
| KAFB-10617 | 482 - 507 | 5/13/10 | -0.12 | 0.00 | 0.04 | 20.64 | 430 |
| KAFB-10618 | 476 - 501 | 5/13/10 | -0.22 | 0.00 | 0.02 | 20.98 | 436 |
| KAFB-10619 | 493 - 518 | 5/13/10 | -0.32 | 0.00 | 0.10 | 20.68 | 538 |
| KAFB-10620 | 482 - 507 | 5/14/10 | -0.08 | 0.00 | 0.04 | 21.37 | 595 |
| KAFB-10624 | 481 - 506 | 5/12/10 | 0.14 | 0.00 | 0.90 | 15.92 | 1,586 |
| KAFB-10625 | 465 - 490 | 5/13/10 | -0.04 | 0.00 | 0.02 | 20.96 | 291 |
| KAFB-10626 | 466 - 486 | 5/13/10 | -0.20 | 0.00 | 0.08 | 20.92 | 361 |
| KAFB-10627 | 581 - 501 | 5/11/10 | 2.60 | 0.00 | 0.28 | 19.17 | 1,183 |
| KAFB-3411 | 477 - 502 | 5/12/10 | 0.02 | 0.00 | 0.04 | 21.22 | 175 |
| ST106 Influent | N/A | 5/14/10 | <-30 | 0.00 | 1.74 | 17.53 | 10,512 |
| ST106 Influent | N/A | 6/29/10 | <-30 | 0.02 | 3.04 | 16.13 | 16,065 |
| KAFB-1065 Influent | N/A | 5/14/10 | >-30 | 0.01 | 0.36 | 20.32 | 12,834 |
| KAFB-1065 Influent | N/A | 6/29/10 | <-30 | 0.00 | 0.52 | 20.27 | 11,115 |
| KAFB -1068 Influent | N/A | 5/14/10 | -27.0 | 0 | 1.06 | 18.13 | 13,806 |
| KAFB-1068 Influent | N/A | 6/29/10 | -27.0 | 0.01 | 1.74 | 15.93 | 15,723 |
| KAFB -1066 Influent | N/A | 5/14/10 | System off pending repair | | | | |
| KAFB-1066 Influent | N/A | 6/29/10 | -12.0 | 0.00 | 4.98 | 10.70 | 45,540 |

ft bgs = feet below ground surface
in H2O = inches of water
ppmv = parts per million by volume
N/A = not applicable

## 4.2 Quarterly Soil Vapor Data Summary

A bulleted list of observations based on the soil vapor for each monitored depth interval is provided in the subsections below. All soil vapor data discussed are results for total hydrocarbon concentrations as measured using the Horiba meter, unless otherwise noted. Figures 4-2 through 4-5 present a plan view of the approximate soil vapor distribution measured at various depths beneath the Bulk Fuels Facility in May 2010 based on the Horiba measurement data provided in Table 4-1. Soil vapor distributions are contoured in plan view and discussed in terms of a lower limit of 1,000 ppmv. Kirtland AFB recognizes that 1,000 ppmv of total hydrocarbon is not necessarily a delineation threshold regarding final characterization of possible soil vapor distributions. However, the soil vapor quarterly measurements are most useful for evaluating relative concentrations in different areas of the site and trends from quarter to quarter and year to year. Considering that there is a known release of fuel to the subsurface soils, and those quantities generate hydrocarbon vapors, it is not useful to further contour data to the level of 100's or 10's of ppmv for site-wide evaluations. Essentially all vapor monitoring points display hydrocarbon detections in the 100's of ppmv as is expected considering that fuel in known to be present in the subsurface. To provide a perspective on changes in overall soil vapor concentrations with time historical trend graphs of soil vapor data are presented in Appendix C

Figures 4-6 thorough 4-9 present four cross-sectional views of the approximate soil vapor distribution measured beneath the Former Fuel Offloading Rack area in May 2010. Standard fold-out sizes of Figures 4-6 through 4-9 are provided in the text; plates printed at 1 inch equals 50 feet are provided at the back of the report. In prior reports a primary cross-section from east to west along the Former Fuel Offloading Rack was presented for each quarter. As specified in the NMED-HWB August 6, 200 letter a series of additional cross-sectional views of geology and soil vapor data have been added to this report. The locations of the cross-sectional lines in plan view are presented on Figure 4-1. The geologic units presented on the cross-sections are based on the three-dimensional geologic Mining Visualization Software (MVS) model that has been compiled over time for this site. The three-dimensional model integrates all geologic soil boring data from all boreholes that have been advanced at the site during all prior investigations. The MVS software allows geologic data to be input as spatially accurate x, y, z coordinates to produce a scaled three dimensional model of the subsurface geology that can then be used to generate any type of cross-sectional or depth discrete plan views of the data.

### 4.2.1 Surface to 150-feet bgs Interval

- At the 150 feet bgs interval, the highest vapor concentrations persist in the central to eastern area of the Former Fuel Offloading Rack in the vicinity of SVMW-10 and SVMW-11 (Figure 4-2).
- In general, soil vapor concentrations are of similar magnitude as they were in the first quarter of 2010 with the exception of SVMW-09, which rose from 4,450 ppmv in the first quarter of 2010 to 30,060 ppmv in the second quarter of 2010.
- Soil vapor concentrations in excess of 1,000 ppmv are roughly similar to the first quarter of 2010, with the exception of SVMW-05 which rose just above 1,000 ppmv in the second quarter of 2010 and SVEW-06, which fell below 1,000 ppmv in the second quarter of 2010.
- An area on the east side of the Bulk Fuels Facility, at SVMW-13, continues to have vapor concentrations above 10,000 ppmv in this interval. However, the concentration at SVMW-13 has dropped from 22,500 ppmv in first quarter of 2010 to 10,305 in the second quarter of 2010. The elevated soil vapor concentrations at SVMW-13 at the 150-feet bgs interval continue to be isolated from those at the Former Fuel Offloading Rack area as defined by low vapor concentrations at SVMW-06.

### 4.2.2 250-feet bgs Interval

- At the 250 feet bgs interval, the highest soil vapor concentrations remain localized around the east end of the Former Fuel Offloading Rack in the vicinity of SVMW-11 (Figure 4-3).
- While the soil vapor concentration at SVMW-11 rose from 40,230 ppmv in the first quarter of 2010 to 50,400 ppmv in the second quarter of 2010, concentrations generally saw modest decreases at other sampling locations.
- Soil vapor concentrations in excess of 1,000 ppmv are roughly similar to the first quarter of 2010, with the exception of SVMW-15 at the southwest area of the plume, which fell below 1,000 ppmv in the second quarter of 2010.

### 4.2.3 350-feet bgs Interval

- At the 350 feet bgs interval, the soil vapor concentrations do not display a localized hotspot near SVMW-11, as they do at the two shallowest intervals, at the east end of the Former Fuel Offloading Rack (Figure 4-4). Rather, the highest concentrations at this depth interval extend to the east of the east end of the Former Fuel Offloading Rack towards direction of the PSH on the water table.
- Soil vapor concentrations at almost every sampling location were considerably less in the second quarter of 2010 than in the first quarter of 2010. From the first quarter of 2010 to the second quarter of 2010, the soil vapor concentration at the three wells at the center of the plume dropped from 18,450 ppmv to 8,190 ppmv at SVMW-03; from 29,250 ppmv to 16,155 ppmv at SVMW-06; and from 18,180 ppmv to 12,150 ppmv at SVMW-15. The soil vapor concentrations in a number of wells on the western half of the site dropped below 1,000 ppmv in the second quarter of 2010, greatly reducing the size of the 1,000 ppmv contour.

### 4.2.4 450-feet bgs Interval and Water Table Interface

Soil vapor concentration data from the 450-feet bgs and water table interface intervals are jointly considered and contoured. The following discussions consider the vapor data from roughly the 400-feet bgs interval to the water table interface, as shown on Figure 4-5. The areal extent of Figure 4-5 is larger than that of Figures 4-2, 4-3, and 4-4 because of the inclusion of soil vapor concentration data from a number of groundwater monitoring wells that have screens that extend above the water table to the north of the base boundary. The elevated soil vapor concentrations in certain groundwater monitoring wells are expected to be the result of TPH constituents volatilizing from the PSH on the water table to the vadose zone, or from the water table itself in more distant areas.

- At the 450 feet bgs interval, high soil vapor concentrations persist in the area under and to the east of the Former Fuel Offloading Rack (Figure 4-5), with secondary hotspots in the vicinity of SVMW-14 to the southwest and KAFB-1069 to the northeast.
- In general, soil vapor concentrations decreased at the three hotspot locations mentioned in the bullet above, as well as in more distant monitoring wells, reducing the magnitude of hotspots and the areal extent of the 1,000 ppmv contour shown on Figure 4-5.

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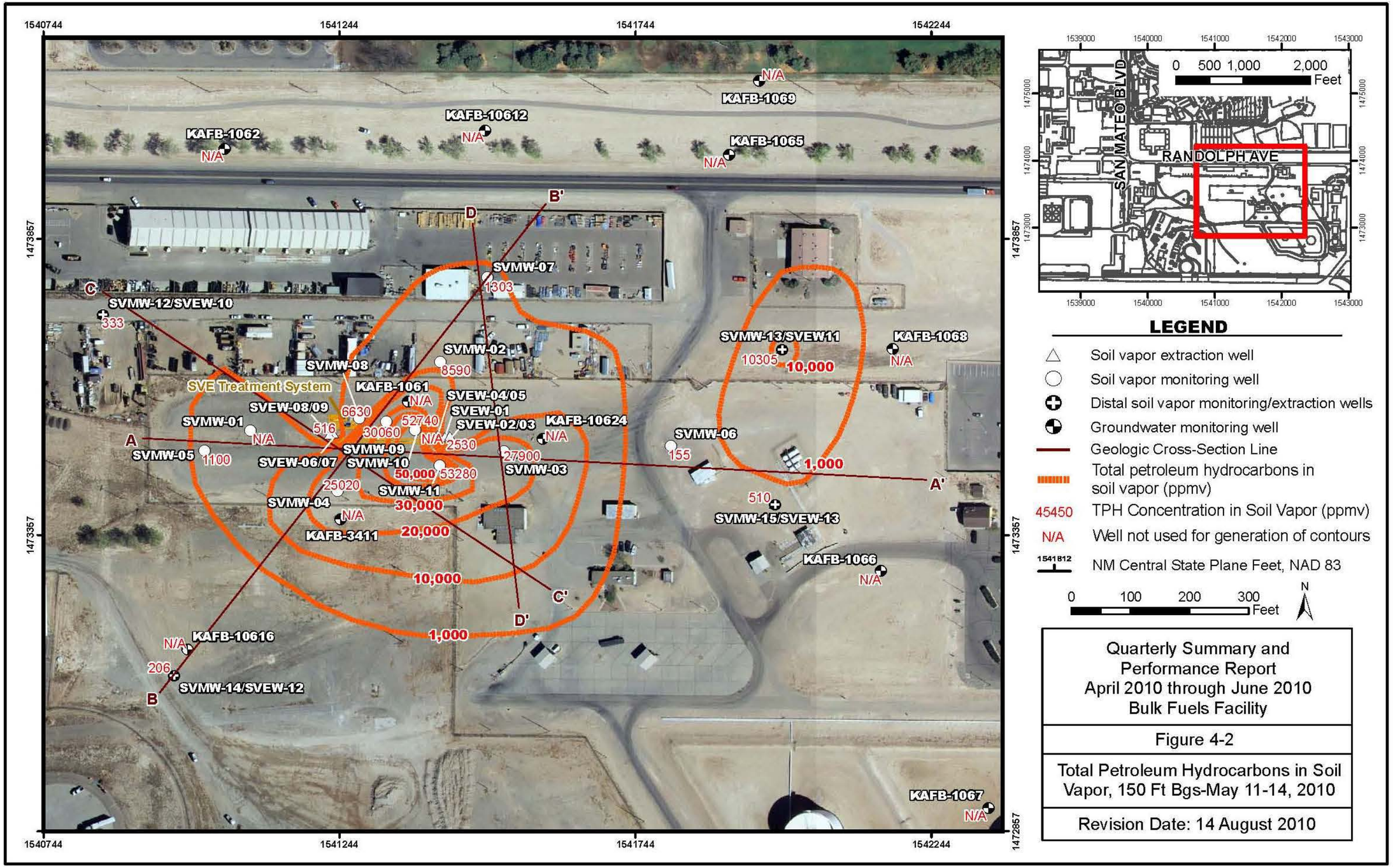


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Figure 4-2

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-May 11-14, 2010

Revision Date: 14 August 2010

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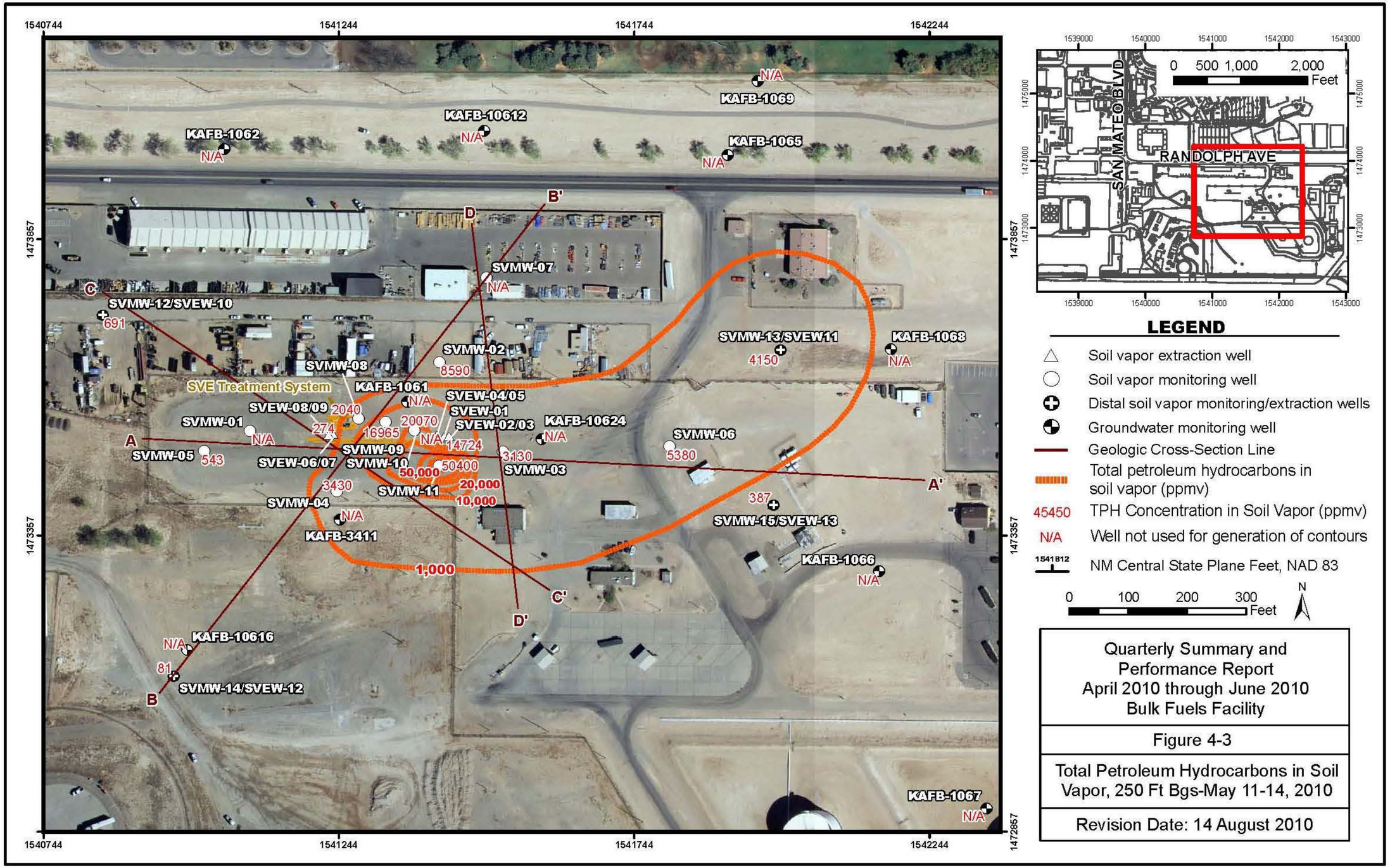
1540744
1541244
1541744
1542244
1473857
1473357
1472857
KAFB-1069
N/A
KAFB-10612
N/A
KAFB-1062
N/A
KAFB-1065
N/A
B'
D
SVMW-07
N/A
C
SVMW-12/SVEW-10
691
SVMW-13/SVEW11
4150
KAFB-1068
N/A
SVMW-02
8590
SVMW-08
SVE Treatment System
KAFB-1061
N/A
SVEW-04/05
SVEW-01
SVEW-08/09
2040
274
16965
20070
SVEW-02/03
KAFB-10624
N/A
SVMW-01
N/A
A
SVMW-05
543
SVMW-09
N/A
14724
3130
SVMW-06
5380
SVEW-06/07
SVMW-10
50400
50,000
SVMW-03
A'
3430
SVMW-11
20,000
10,000
SVMW-04
N/A
387
SVMW-15/SVEW-13
KAFB-3411
1,000
KAFB-1066
N/A
C'
D'
KAFB-10616
N/A
81
SVMW-14/SVEW-12
B
KAFB-1067
N/A
1539000
1540000
1541000
1542000
1543000
1475000
1474000
1473000
SAN MATEO BLVD
RANDOLPH AVE
0 500 1,000 2,000
Feet
LEGEND
Soil vapor extraction well
Soil vapor monitoring well
Distal soil vapor monitoring/extraction wells
Groundwater monitoring well
Geologic Cross-Section Line
Total petroleum hydrocarbons in soil vapor (ppmv)
45450 TPH Concentration in Soil Vapor (ppmv)
N/A Well not used for generation of contours
1541812 NM Central State Plane Feet, NAD 83
0 100 200 300
Feet
N
Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility
Figure 4-3
Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-May 11-14, 2010
Revision Date: 14 August 2010

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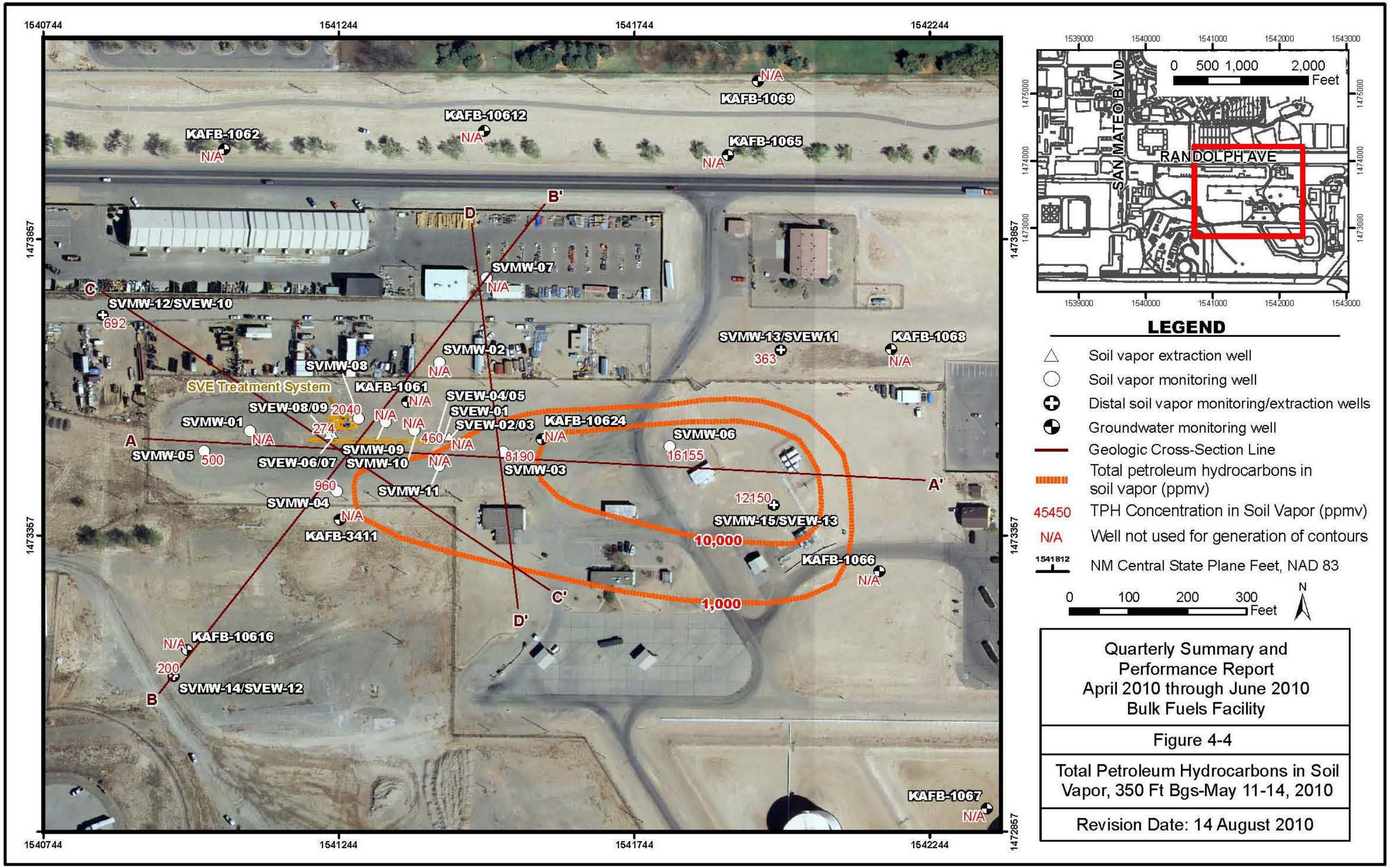


Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-4

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-May 11-14, 2010

Revision Date: 14 August 2010

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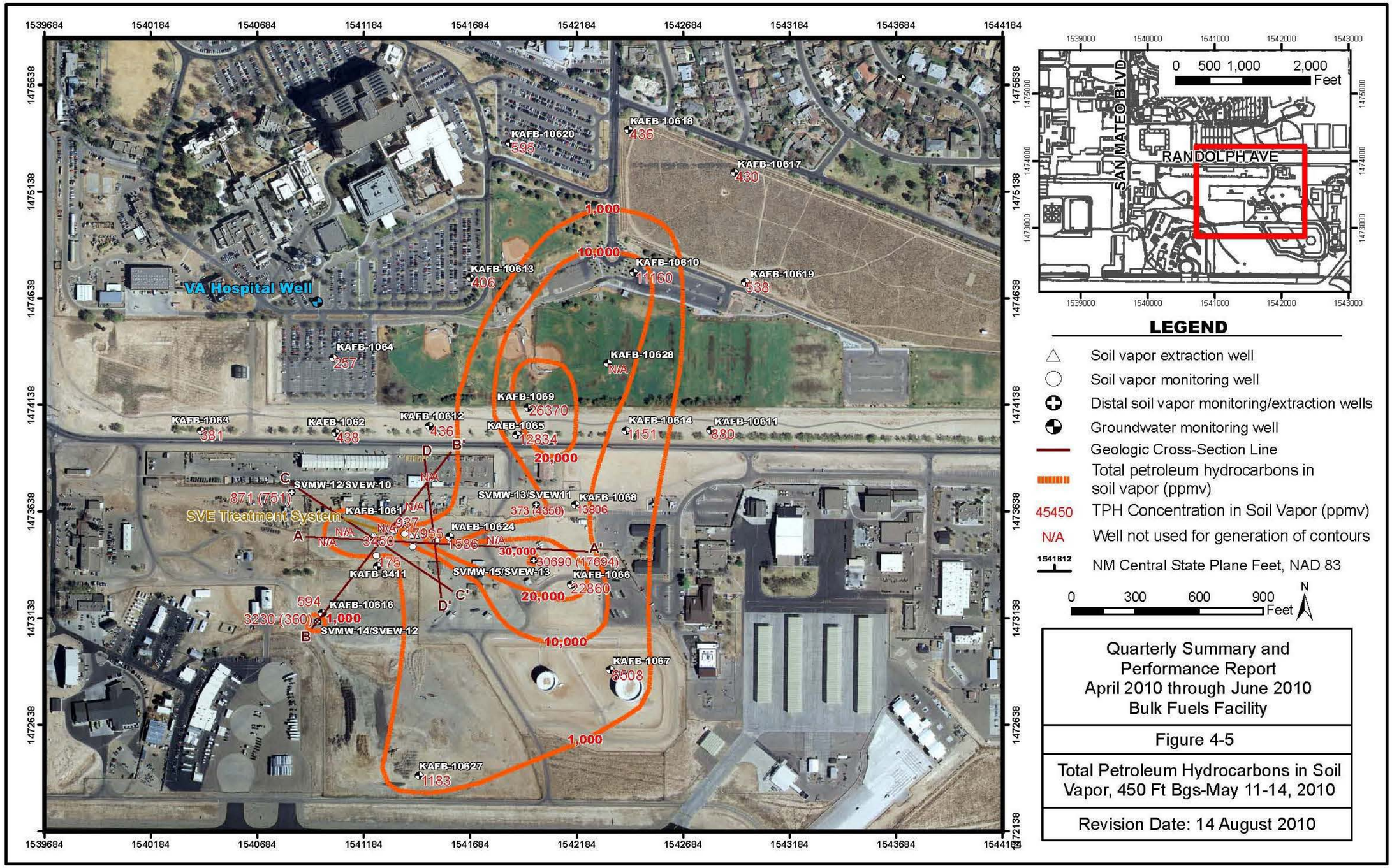
VA Hospital Well
SVE Treatment System
KAFB-10618 436
KAFB-10620 595
KAFB-10617 430
KAFB-10613 406
KAFB-10610 11160
KAFB-10619 538
KAFB-1064 257
KAFB-10628 N/A
KAFB-1069 26370
KAFB-1063 381
KAFB-1062 438
KAFB-10612 436
KAFB-1065 12834
KAFB-10614 1151
KAFB-10611 880
SVMW-12/SVEW-10 871 (751)
KAFB-1061 937
SVMW-13/SVEW11 373 (350)
KAFB-1068 13806
KAFB-10624 1586
KAFB-3411 175
SVMW-15/SVEW-13 30690 (17694)
KAFB-1066 22860
KAFB-10616 594
SVMW-14/SVEW-12 3230 (360)
KAFB-1067 6508
KAFB-10627 1183
1,000
10,000
20,000
30,000
A
A'
B
B'
C
C'
D
D'
1539684 1540184 1540684 1541184 1541684 1542184 1542684 1543184 1543684 1544184
1475638 1475138 1474638 1474138 1473638 1473138 1472638 1472138
1539000 1540000 1541000 1542000 1543000
1475000 1474000 1473000
SAN MATEO BLVD
RANDOLPH AVE
0 500 1,000 2,000 Feet
LEGEND
Soil vapor extraction well
Soil vapor monitoring well
Distal soil vapor monitoring/extraction wells
Groundwater monitoring well
Geologic Cross-Section Line
Total petroleum hydrocarbons in soil vapor (ppmv)
45450 TPH Concentration in Soil Vapor (ppmv)
N/A Well not used for generation of contours
1541812 NM Central State Plane Feet, NAD 83
0 300 600 900 Feet
N
Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility
Figure 4-5
Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-May 11-14, 2010
Revision Date: 14 August 2010

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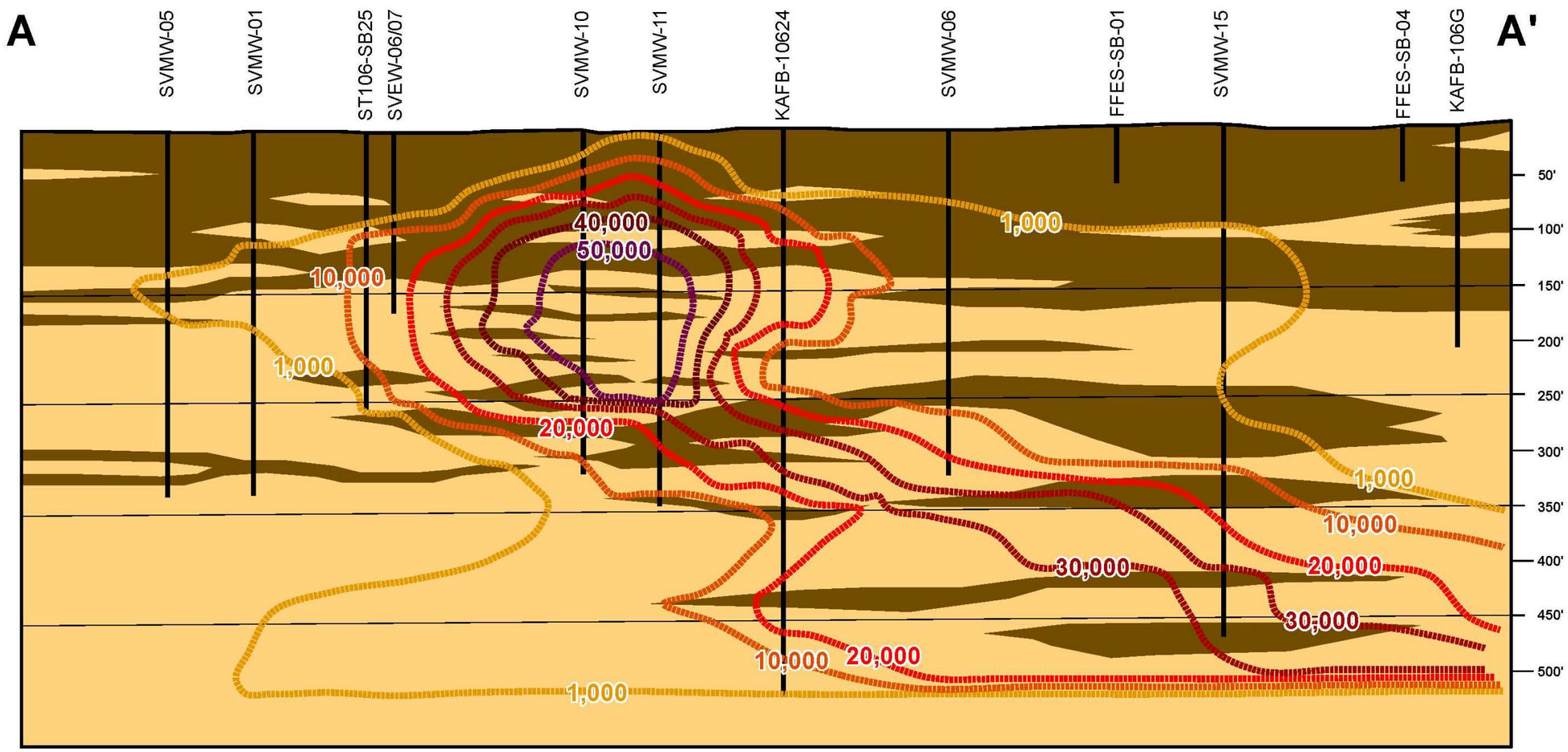
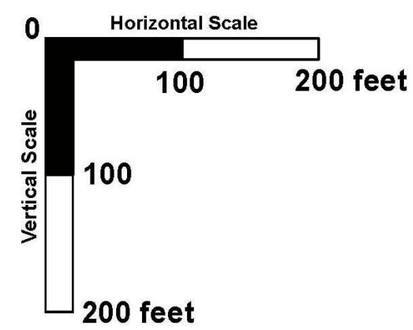



**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-6

Geologic Cross-Section A-A'
Total Petroleum Hydrocarbons in Soil

Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.

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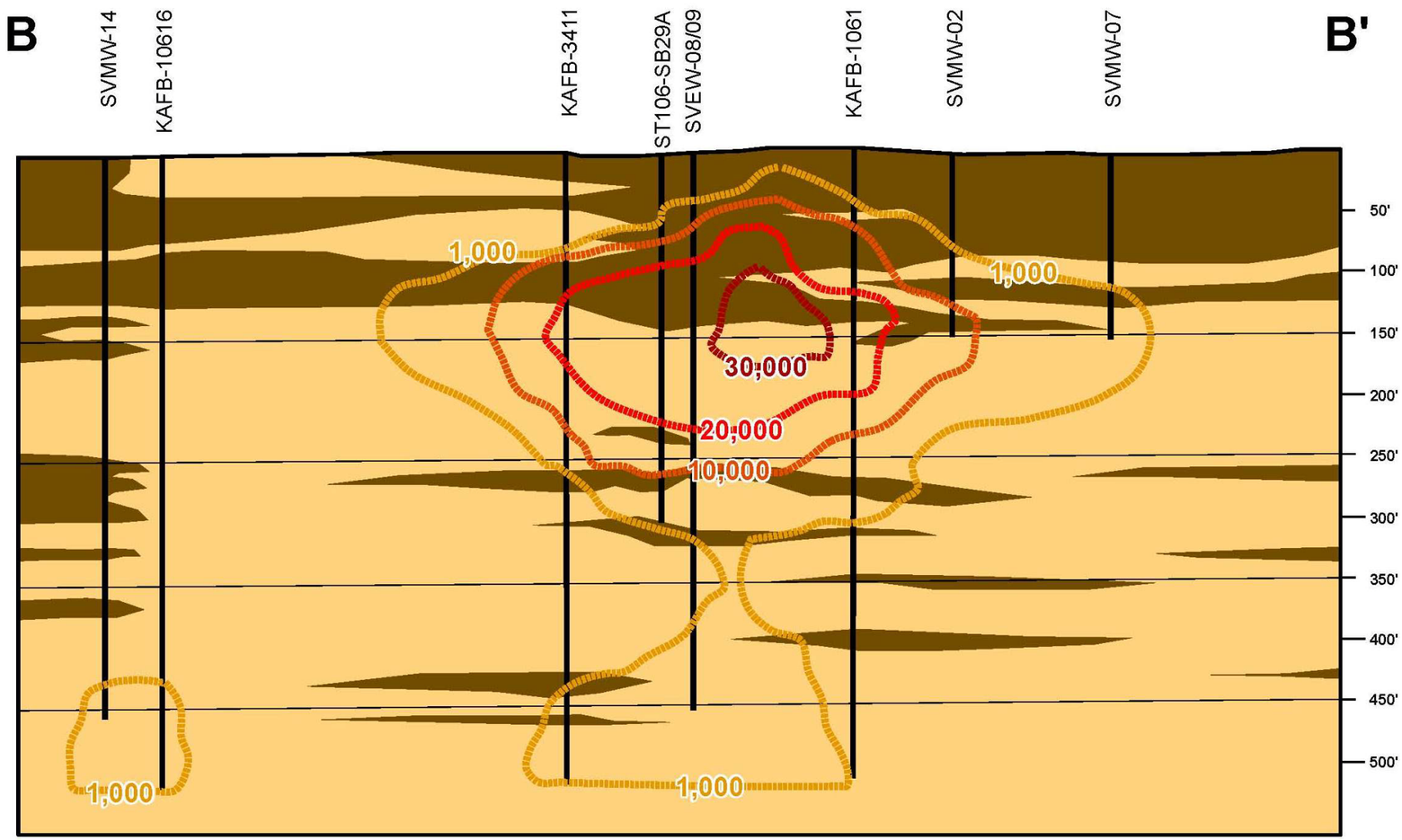
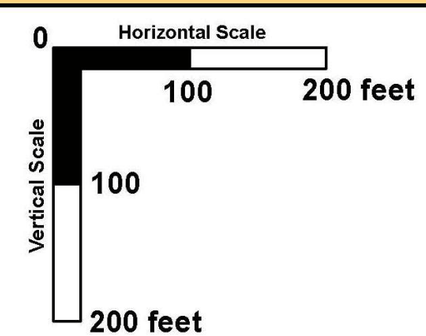



**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-7

Geologic Cross-Section B-B'
Total Petroleum Hydrocarbons in Soil

Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.

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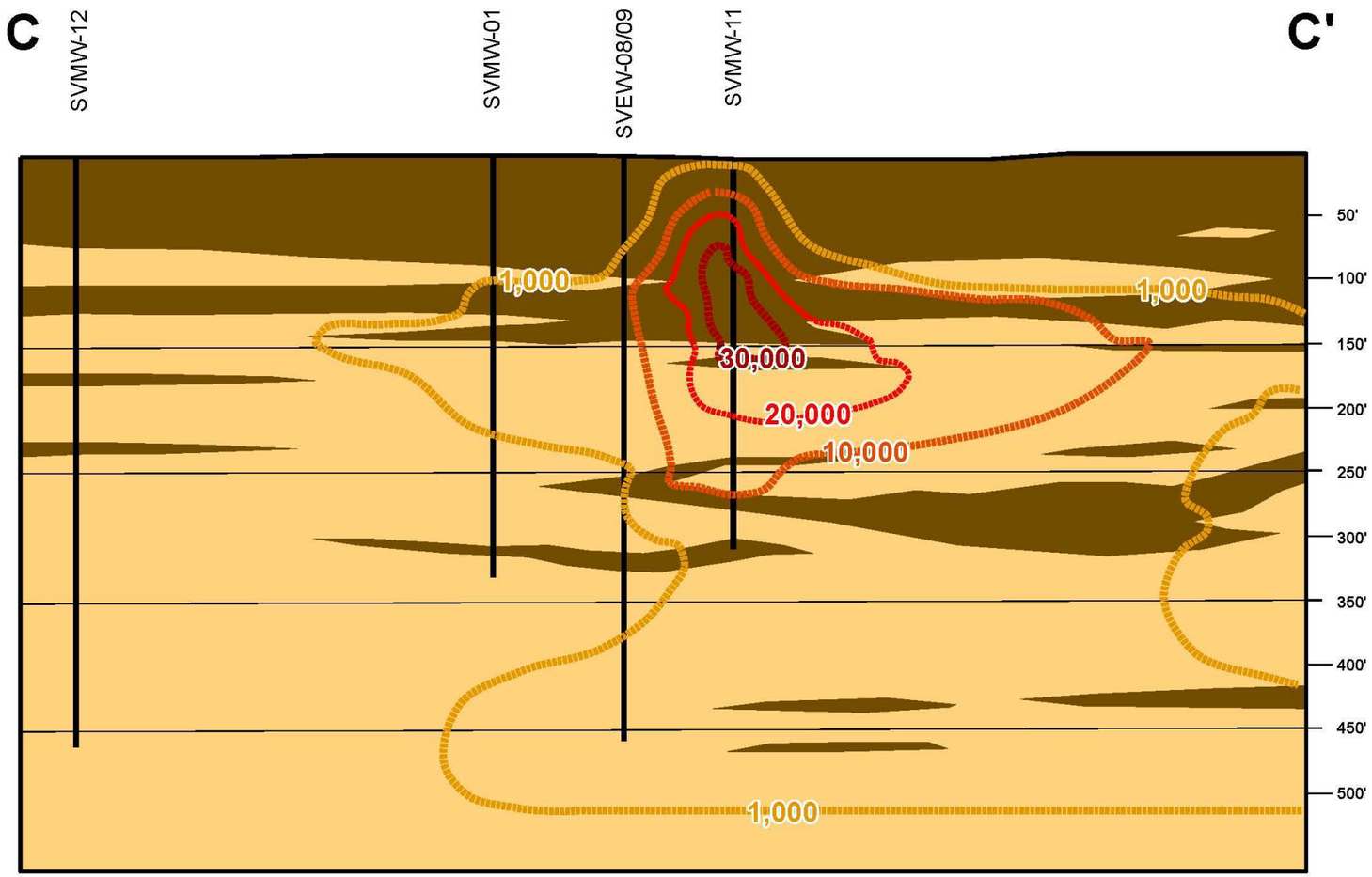
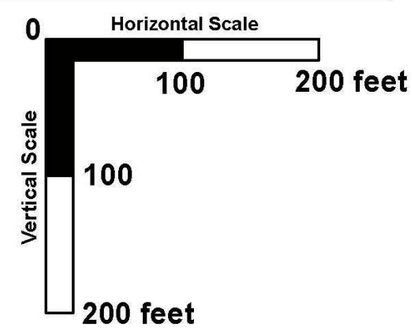



**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-8

Geologic Cross-Section C-C'
Total Petroleum Hydrocarbons in Soil

Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.

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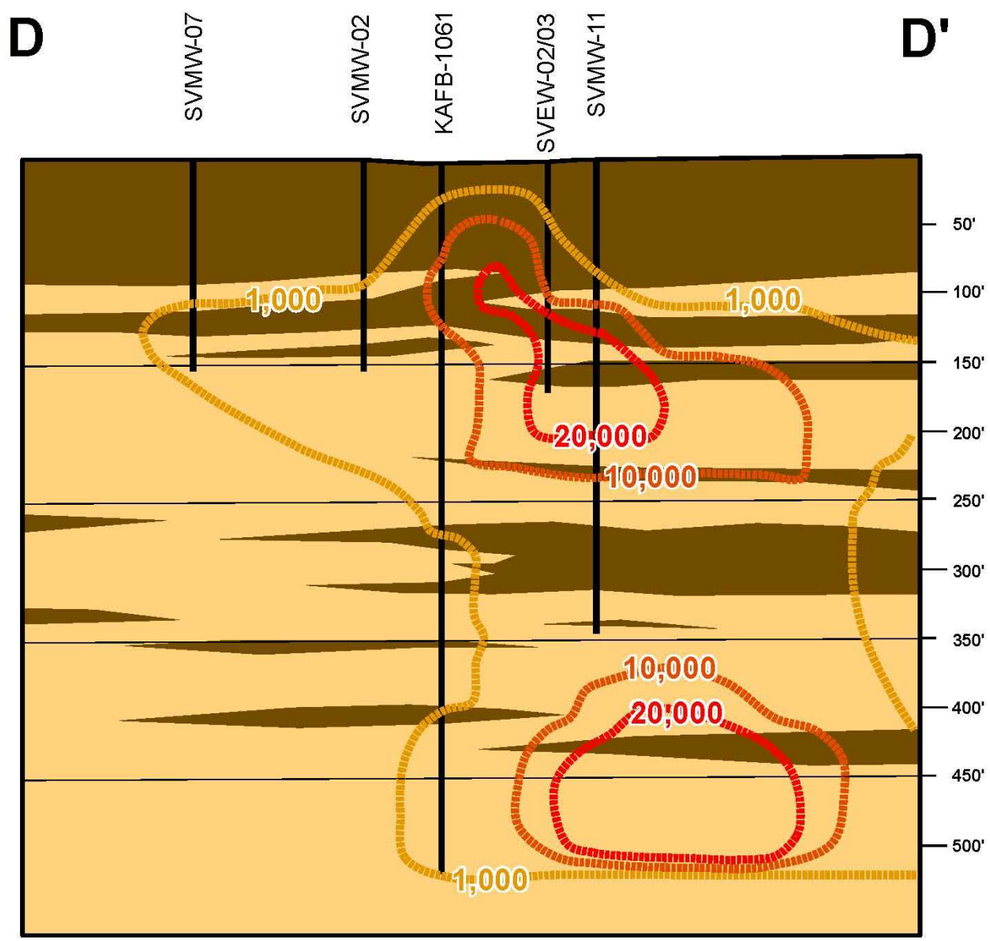
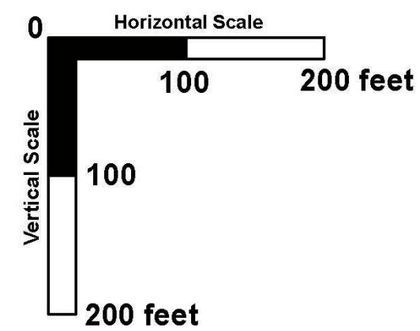



**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-9

Geologic Cross-Section D-D'
Total Petroleum Hydrocarbons in Soil

Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.

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## 4.3 Vadose Zone Conditions Summary and Conclusions

### 4.3.1 Quarterly Magnitude, Extent, and Nature of Soil Vapor Plume

During the second quarter of 2010, the magnitude of the highest concentration areas and the areal extent of the 1,000 ppmv contour decreased in almost all areas at almost all depth intervals, as shown on cross-sections presented in Figures 4-6 though 4-9 in comparison to previous quarters' data as presented in Appendix C. The highest soil-vapor concentrations continued to persist near the Former Fuel Offloading Rack and to the east of this area at depth. These concentrations indicate that a significant soil vapor mass remains in this general area of the site, which is the known fuel release area. The data continue to indicate a consistent overall decrease in soil vapor concentrations across the site relative to conditions when the ST-106 Stage 2 Abatement remediation actions began, as shown on historical soil vapor concentration figures included in Appendix C.

Elevated soil-vapor concentrations persist in some areas of the site away from the Former Fuel Offloading Rack. The volatilization of PSH from the top of the water table is the most likely source of the persistent, elevated vapor concentrations that have been observed in the eastern and northern areas of the site. Additional investigation and data evaluation will continue to more fully determine how the elevated vapor concentrations correlate to the PSH on the water table and residual fuel that remains in the vadose zone on the eastern side of the site.

The samples collected from the ST-106 SVE system and the KAFB-1065, KAFB-1066, and KAFB-1068 SVE system influent streams (Tables 2-4 and 2-10), which were analyzed at a laboratory, indicate that the highest concentration compounds or by-products in the vapor phase at these locations continue to be petroleum hydrocarbons and fuel-related VOCs. This is to be expected based on the fuel release history at the site. At the Former Fuel Offloading Rack, the volatile compounds acetone and MEK also continue to be detected in the SVE system influent at significant concentrations. The presence of these compounds is recognized to be consistent with the nature of the fuel release at the site, since it has been determined that these ketone compounds are by-products of fuel biodegradation.

### 4.3.2 General Effects of Current SVE Systems on the Vadose Zone

SVE is one of the most efficient and cost-effective methods for removing VOCs from contaminated soils (U.S. Army Corps of Engineers [USACE], 2002). As discussed in previous sections of this report, four SVE systems are currently installed at the Bulk Fuels Facility. SVE induces air flow in the vadose zone by creating a pressure gradient through the withdrawal of air from the extraction wells (EPA, 2006). The air flow induced from the SVE system results in desorption of contaminants from the surface of soil particles, volatilization of contaminants dissolved in groundwater, and evaporation of LNAPLs (such as the PSH on the water table below the Bulk Fuels Facility) (EPA, 2006).

Vapor pressure, which is defined as the force per unit area exerted by the vapor of the chemical in equilibrium with its solid or liquid form, governs the tendency of a solid or liquid to evaporate (EPA, 2006). Raoult's law provides an approximation of the expected vapor pressures for compounds over a petroleum hydrocarbon product (USACE, 2002). Likewise, Henry's law determines the extent of volatilization of a contaminant dissolved in water (EPA, 2006). The most volatile petroleum hydrocarbons have both high vapor pressures and Henry's law constants, making them readily extractable by the SVE system. As such, the composition of soil gas in the vadose zone will change over time at sites where the release was a mixture of different petroleum hydrocarbons since the most volatile compounds are more quickly extracted from the subsurface by the SVE system (EPA, 2006). Because there were three fuel types released at the Bulk Fuels Facility (avgas, JP-4, and JP-8), the chemistry of soil vapor below the site is expected to change over time as the most volatile compounds are stripped away first, followed by extraction of less volatile compounds over time.

Contaminant removal by SVE will generally commence in more permeable zones first and then proceed to progressively less permeable zones (USACE, 2002). Soil stratigraphy will act to limit contaminant removal in fine-grained sediments, such as clay lenses, and these fine-grained units can serve as continuing sources of vapor-phase contaminants long after more permeable zones have been remediated (USACE, 2002). As discussed in the sections above, soil vapor is very transient by nature. This means that the SVE systems at the Bulk Fuels Facility are expected to have disturbed the historical distribution of soil vapor in the vadose zone. However, it is expected that most areas that have maintained consistently high soil vapor hydrocarbon concentrations, while also under the influence of the SVE systems, are the areas in close proximity to sorbed-phase soil contamination. Areas where soil vapor concentrations have significantly decreased are expected to be areas where contaminated soil vapor had previously migrated but were not areas where significant sorbed-phase soil contamination was present. However, this relationship may not be appropriate for areas where the SVE systems do not have significant capture based on their respective radii of influence.

### 4.3.3 Analysis of Historical Soil Vapor Trends

Soil vapor is transient by nature due to the dynamic factors that affect the vadose zone. Initially high soil vapor concentrations at a given location may not necessarily indicate an area where sorbed-phase soil contamination is present. These areas may instead represent an area where soil vapor has migrated and collected due to geologic or barometric influences. It is important to note that soil vapor is not currently a regulated media since there are no promulgated regulatory standards for soil vapor. As such, the evaluation of soil vapor trends at the Bulk Fuels Facility are instead used as a general indicator of where sorbed-phase soil contamination may be present if high vapor concentrations are persistent even under the influence of the SVE systems or biodegradation.

An evaluation of soil vapor trends within the source area was completed by evaluating how the soil vapor plume has changed over the time period from the first quarter of 2005 to the first quarter of 2010. This evaluation was completed for two purposes. First to evaluate the effectiveness of the SVE systems at treating contaminated soil and second to evaluate areas where soil vapor concentrations have remained at high concentrations, potentially indicating areas where sorbed-phase contamination may still be present.

A trend analysis was completed for each soil vapor monitoring well to evaluate the concentration of hydrocarbons and the percentage of oxygen and carbon dioxide over the five year period from 2005 to 2010. Trend analysis graphs were completed by fitting linear regression curves to the data. These trend graphs are presented in Appendix C. The results of the trend analysis indicate that in general most areas of the soil vapor plume have decreased to some degree and several areas have decreased significantly. As described in Section 4.3.2 areas of the site where significant reductions in soil vapor concentrations have been observed likely indicate that those areas and given depths within the vadose zone do not or no longer contain substantial sorbed fuel contamination. If sorbed fuel contamination was present in such areas it would be a continuing source of persistent, elevated soil vapor concentrations that would continue to be detected even in the presence of active SVE. Those areas of the site where elevated hydrocarbon concentrations persist are likely to be areas where soil contamination is still present.

In addition to the reduction of soil vapor contamination from operation of the SVE systems, some of the mass reduction is also attributable to an increase in biodegradation of the vapor plume due to the increase in oxygen concentrations at many locations. The SVE systems have allowed for higher oxygen concentrations to be pulled in from oxygen-rich areas of the vadose zone, allowing for additional biodegradation to occur. Generally, biodegradation of petroleum hydrocarbons in the vadose zone readily occurs when oxygen is present at concentrations of 5% or greater (AFCEE, 2004). Most areas of the vapor plume have seen an increase in oxygen over time and have oxygen at concentrations greater than 5 percent. Additional passive or active bioventing should be considered in portions of the vapor plume with oxygen concentrations less than 5% to increase biodegradation rates in these zones.

# 5 GROUNDWATER MONITORING

## 5.1 Groundwater Monitoring Description

The groundwater investigation and monitoring program includes groundwater elevation monitoring and groundwater sampling on a quarterly basis from site monitoring wells and nearby production wells. The entire set of groundwater monitoring wells associated with the Bulk Fuels Facility Spill investigation sampled during this reporting period included the following:

- During the second quarter of 2010, wells sampled included: groundwater monitoring wells KAFB-1061 through KAFB-10628 (KAFB-10626, -10627, and -10628 are new wells that were installed during May of 2010); monitoring well KAFB-3411 (installed for investigation of another adjacent site, but provides a monitoring location upgradient of the Former Fuel Offloading Rack); two Kirtland AFB drinking water production wells (KAFB-3 and KAFB-16; KAFB-15 was out of service for repairs and was not sampled during this quarter); the VA Medical Center drinking water production well (VA-2); and a private residential irrigation well.
- In addition to the standard groundwater samples collected during the second quarter of 2010, passive diffusion bag (PDB) samplers were also installed in wells KAFB-10613, KAFB-10617, KAFB-10618, KAFB-10619, KAFB-10620, KAFB-10621, KAFB-10622, KAFB-10623, and KAFB-10625 to allow for vertical profiling within the wells screens of these wells. Additionally, low flow discrete depth samples were also collected at the same intervals of the PDB samples at wells KAFB-10613 and KAFB-10617 to compare results with the PDB samples collected at those wells. The PDB and low flow samples were collected to begin developing a set of comparative data that provide resolution of the vertical profile of contaminants within the well screen.

Data from the private irrigation well are not presented in this report for privacy purposes but are made available to the property owners and are available for regulatory review in the project files.

In addition to the sampling that is being conducted by Kirtland AFB as part of the ongoing site investigation, the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) is independently conducting sampling of the ABCWUA's water production wells in the distal downgradient Ridgecrest and Burton wellfields. The Air Force is providing funding to the ABCWUA to finance this additional sampling although all sampling activities and data evaluation is being conducted by the ABCWUA. To date the ABCWUA has not informed Kirtland AFB of any detections of fuel-related compounds in the production well sampling.

During sampling, the groundwater elevation and, if present, PSH thickness in all groundwater monitoring wells that are accessible were measured. Groundwater elevation monitoring for the second quarter of 2010 was conducted between May 14 and May 15, 2010. The static water level elevations in those wells that contain PSH were corrected to account for the PSH on the water table, as presented in Table 5-1. Survey data for all wells is included in Attachment 1 of Appendix E. The groundwater elevations, elevation contours, and interpreted groundwater flow direction and gradient beneath the Bulk Fuels Facility Spill site in May 2010 is presented in Figure 5-1.

The groundwater elevations from the second quarter of 2010 are consistent with those previously observed at the site. The site groundwater elevations and the contours indicate that the overall groundwater flow direction across the main portion of the site is to the north-northeast as has been observed previously. During the second quarter of 2010, with the addition of the KAFB-10626 and KAFB-10627 data points, the northernmost and southernmost contours on Figure 5-1 were able to be interpolated further to the north and south relative to historical maps prepared for the site.

The groundwater gradient in the distal portions of the plume in the downgradient direction will continue to be evaluated in future reporting quarters and as additional monitoring points north of the main site are installed. The groundwater flow gradient is calculated to be roughly 0.001 to 0.002 foot per foot (ft/ft) for the second quarter 2010.

The measured thickness of PSH in those groundwater monitoring wells that contain PSH is also presented in Table 5-1. The PSH thicknesses vary in individual wells over time, and from well to well. Generally, the PSH-containing wells located just north and south of Randolph Avenue tend to have thicknesses of 0.9 to 3.8 feet. The SVE and treatment systems operating at wells KAFB-1065, KAFB-1066 and KAFB-1068 result in increased PSH thicknesses at those wells during active extraction and are lower when the systems are not operational. Well KAFB-1066 to the south and well KAFB-10610 to the north have thicknesses generally less than 1 foot, although accurate measurements at KAFB-10610 have not been possible due to an emulsified fuel layer that formed in the well during well development. The emulsified mixture does not produce PSH detection with the oil-water interface probe, although physical recovery of material from the well confirms the continued presence of PSH in this well. The estimated location of PSH on the groundwater table as observed during the reporting period is shown in Figure 5-1. The full extent of PSH is delineated in all directions including the most northern edge at well KAFB-10618, which contains less than 0.01-ft of PSH. Measurable PSH was detected in new well KAFB-10628, as expected. No measurable PSH was detected in new wells KAFB-10626 and -10627, which was also expected due to their distance from the known PSH location.

Groundwater sample collection was conducted on April 16, April 27, April 30, May 3, May 5, May 6, June 14, June 16, and June 21, 2010. Groundwater samples were collected during this reporting period for laboratory analysis all existing groundwater monitoring wells; from two Kirtland AFB drinking water production wells (KAFB-3 and KAFB-16); from the VA Medical Center drinking water production well (VA-2); and from a private residential irrigation well. Additionally, post-development samples were collected from new monitoring wells KAFB-10626, KAFB-10627, and KAFB-10628 following development. All samples were collected in accordance with the site-specific QAPP prepared for this project (USAF, 2010b).

Regularly sampled monitoring wells that are on-Base (KAFB-1061 through KAFB-1063, KAFB-1067, -10611, -10612, -10615, and -10616) as well as KAFB-1064 off-Base contain dedicated Bennett pumps. The other groundwater monitoring wells have not had dedicated pumps installed and are sampled with temporally installed and decontaminated sample pumps. Sampling of each groundwater monitoring well included purging one well borehole volume of groundwater, collecting water quality parameters (pH, conductivity, temperature, dissolved oxygen [DO], turbidity, and oxidation-reduction (redox) potential [ORP]) in the field during well purging, and collecting groundwater samples. The water quality parameters values were allowed to stabilize prior to sampling. The wells were purged at a rate of approximately 0.8 to 1.0 gallon per minute (gpm). For the low flow purge samples at KAFB-10617 at the 493 and 498 ft bgs depths, the Bennett pump from well KAFB-10616 was decontaminated and lowered to the desired depth and used to collect the sample. The sampling was conducted in the same way as in the other wells but the purge rate for these samples was at a rate of approximately 0.3 to 0.5 (gpm). Other low flow samples collected at KAFB-10613 and KAFB-10617 were collected using a submersible pump at a rate of approximately 0.3 to 0.5 gpm.

Quarterly groundwater samples for laboratory analysis are also collected from the Kirtland AFB production wells KAFB-03 KAFB-16, and the VA Medical Center production well VA-2. The Kirtland AFB production wells and the VA Medical Center groundwater production well are purged by flushing the dedicated sample line, and then collecting the samples. Samples are collected from non chlorinated taps for the drinking water wells.

The standard quarterly groundwater samples were analyzed by PEL Laboratories of Tampa, Florida, for the following analytes:

- Ethylene dibromide (EDB; also known as 1,2-dibromethane) by Method 8011 and Method 8260B
- TPH-gasoline range organics (GRO) and diesel range organics (DRO) by Method 8015B
- VOCs by Method 8260B
- Semi-volatile organic compounds (SVOCs) by Method 8270C
- Polycyclic aromatic hydrocarbons (PAHs) by Method 8310
- Inorganics (including lead) by Method 6010B
- Chloride, sulfate, and nitrate (as nitrogen) by Method 300.0
- Carbonate and bicarbonate by Method E310.1

Only samples collected for dissolved iron and manganese were field filtered. Reporting of additional major ions and field analysis of alkalinity, as required in the NMED-HWB's June 4, 2010 letter to Kirtland AFB, will be incorporated for the report to be submitted for the third quarter of 2010.

Additionally, groundwater samples were collected between April 13 and April 26, 2010 from the PDBs installed in wells KAFB-10613, KAFB-10617 through KAFB-10623, and KAFB-10625. These PDBs were installed at the depth intervals shown in Table 5-2. The PDBs were allowed to equilibrate for three or more weeks before the sampling was conducted.

Groundwater samples from the PDBs were analyzed by PEL Laboratories of Tampa, Florida, for the following analytes:

- Ethylene dibromide (EDB; also known as 1,2-dibromethane) by Method 8011
- VOCs by Method 8260B

Trip blanks accompanied the VOC sample bottles and were analyzed for VOCs and TPH-GRO. The results of the quality assurance/quality control (QA/QC) samples confirmed adequate laboratory precision and accuracy in accordance with the site-specific QAPP. The data quality evaluation (DQE) report for both the quarter is included with the data in Appendix B.

Laboratory analytical data and field parameter data for groundwater samples collected during the reporting period are summarized in Table 5-3. Laboratory analytical data and field parameter data for PDB and low flow groundwater samples collected during the reporting period are summarized in Table 5-4. The complete laboratory analytical data packages for groundwater samples collected during the reporting period are provided in Appendix B. After groundwater sampling, purge water from monitoring wells was contained in polyethylene storage tanks at the site. Upon receipt of analytical data for the collected purge water, the purge water is then discharged to the ground surface as stipulated in the standing protocol orated as standard operating procedure at the site. The purge water disposal paperwork is included in Appendix D.

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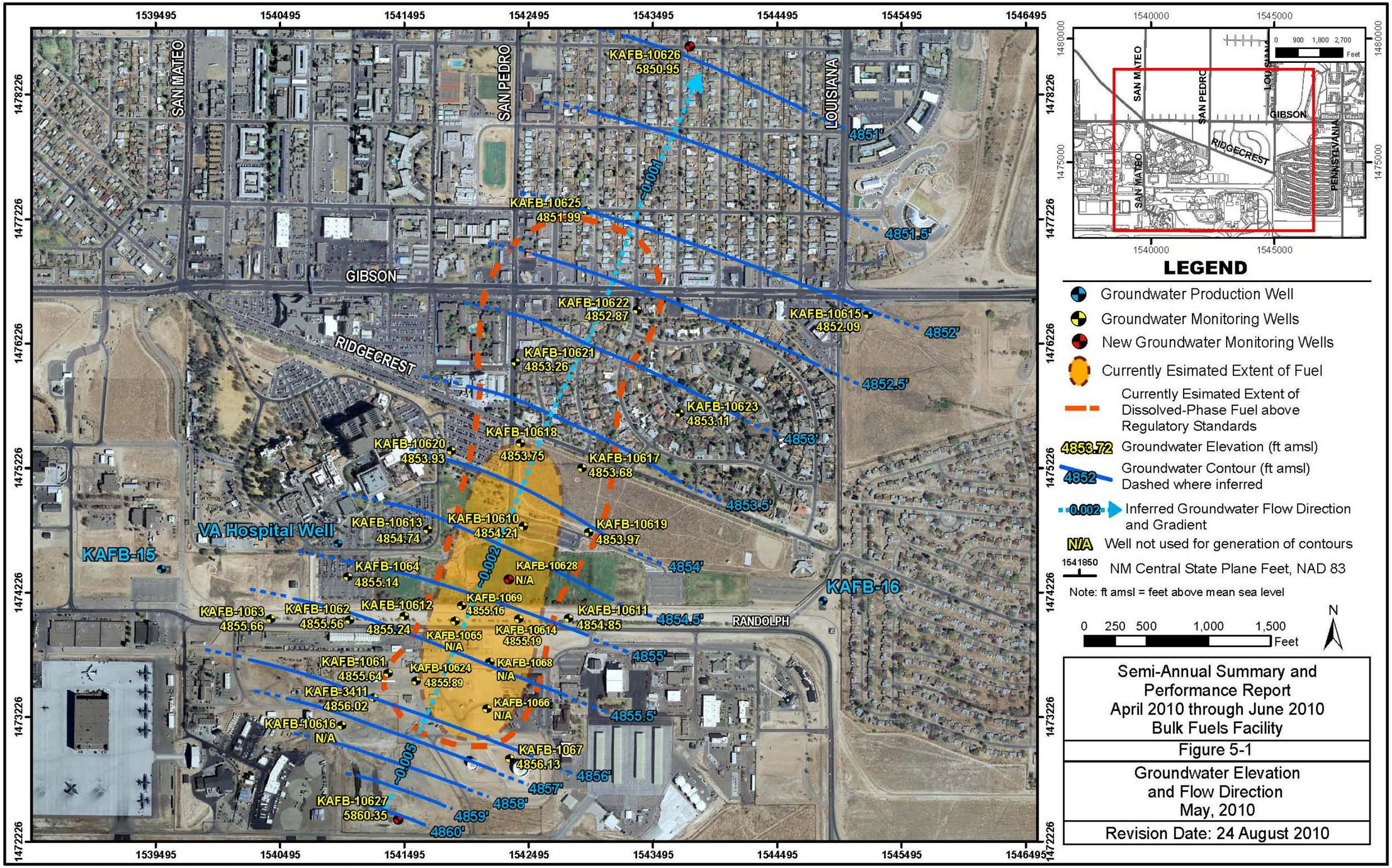
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1473226
1472226
SAN MATEO
SAN PEDRO
LOUISIANA
GIBSON
RIDGECREST
RANDOLPH
VA Hospital Well
KAFB-15
KAFB-16
KAFB-10626
5850.95
KAFB-10625
4851.99
KAFB-10622
4852.87
KAFB-10615
4852.09
KAFB-10621
4853.26
KAFB-10623
4853.11
KAFB-10618
4853.75
KAFB-10620
4853.93
KAFB-10617
4853.68
KAFB-10613
4854.74
KAFB-10610
4854.21
KAFB-10619
4853.97
KAFB-1064
4855.14
KAFB-10628
N/A
KAFB-1069
4855.16
KAFB-1063
4855.66
KAFB-1062
4855.56
KAFB-10612
4855.24
KAFB-1065
N/A
KAFB-10614
4855.19
KAFB-10611
4854.85
KAFB-1061
4855.64
KAFB-10624
4855.89
KAFB-1068
N/A
KAFB-3411
4856.02
KAFB-1066
N/A
KAFB-10616
N/A
KAFB-1067
4856.13
KAFB-10627
5860.35
0.001
~0.002
~0.005
4851'
4851.5'
4852'
4852.5'
4853'
4853.5'
4854'
4854.5'
4855'
4855.5'
4856'
4857'
4858'
4859'
4860'
1540000
1545000
1480000
1475000
0 900 1,800 2,700
Feet
LEGEND
Groundwater Production Well
Groundwater Monitoring Wells
New Groundwater Monitoring Wells
Currently Esimated Extent of Fuel
Currently Esimated Extent of Dissolved-Phase Fuel above Regulatory Standards
4853.72 Groundwater Elevation (ft amsl)
4852 Groundwater Contour (ft amsl) Dashed where inferred
0.002 Inferred Groundwater Flow Direction and Gradient
N/A Well not used for generation of contours
1541850 NM Central State Plane Feet, NAD 83
Note: ft amsl = feet above mean sea level
0 250 500 1,000 1,500
Feet
N
Semi-Annual Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility
Figure 5-1
Groundwater Elevation and Flow Direction
May, 2010
Revision Date: 24 August 2010

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## Table 5-1. Monitoring Well Construction Details and Groundwater Elevations, Bulk Fuels Facility Spill (Page 1 of 5)

| Well Number | Location | Measurement Date | Total Well Depth (feet bgs) | Screened Interval (feet bgs) | TIC Elevation [a] (feet MSL) | Depth to Groundwater (feet below TIC) | Groundwater Elevation [b] (feet msl) | PSH Thickness (feet) |
|---|---|---|---|---|---|---|---|---|
| KAFB-1061 | Along north fenceline in NW portion of facility. South of Contractor's storage yards. | 7/7/2008 | 508.5 | 483-508 | 5344.19 | 489.81 | 4854.38 | N/A |
| | | 10/27/2008 | | | | 491.07 | 4853.12 | N/A |
| | | 1/20/2009 | | | | 490.40 | 4853.79 | N/A |
| | | 7/20/2009 | | | 5344.41 | 491.08 | 4853.33 | N/A |
| | | 10/7/2009 | | | | 491.67 | 4852.74 | N/A |
| | | 1/11/2010 | | | | 489.33 | 4855.08 | N/A |
| | | 5/15/2010 | | | | 488.77 | 4855.64 | N/A |
| KAFB-1062 | North side of Randolph Ave. North of DRMO office. | 7/7/2008 | 505 | 479-504 | 5341.82 | 487.78 | 4854.04 | N/A |
| | | 10/27/2008 | | | | 488.94 | 4852.88 | N/A |
| | | 1/19/2009 | | | | 488.16 | 4853.66 | N/A |
| | | 4/27/2009 | | | 5342.00 | 487.93 | 4854.07 | N/A |
| | | 7/20/2009 | | | | 489.06 | 4852.94 | N/A |
| | | 10/7/2009 | | | | 489.70 | 4852.30 | N/A |
| | | 1/11/2010 | | | | 488.05 | 4853.95 | N/A |
| | | 5/14/2010 | | | | 486.44 | 4855.56 | N/A |
| KAFB-1063 | North side of Randolph Ave. North of DRMO's western yard. | 7/7/2008 | 503 | 476-501 | 5339.55 | 484.94 | 4854.61 | N/A |
| | | 10/27/2008 | | | | 486.15 | 4853.40 | N/A |
| | | 1/19/2009 | | | | 485.50 | 4854.05 | N/A |
| | | 4/27/2009 | | | 5339.71 | 485.28 | 4854.43 | N/A |
| | | 7/20/2009 | | | | 487.27 | 4852.44 | N/A |
| | | 10/7/2009 | | | | 486.52 | 4853.19 | N/A |
| | | 1/11/2010 | | | | 485.56 | 4854.15 | N/A |
| | | 5/14/2010 | | | | 484.05 | 4855.66 | N/A |
| KAFB-1064 | Parking lot south of VA Hospital | 7/7/2008 | 510 | 484-509 | 5345.47 | 493.09 | 4852.38 | N/A |
| | | 10/27/2008 | | | | 493.09 | 4852.38 | N/A |
| | | 1/19/2009 | | | | 492.36 | 4853.11 | N/A |
| | | 4/27/2009 | | | 5345.68 | 492.06 | 4853.62 | N/A |
| | | 7/20/2009 | | | | 493.21 | 4852.47 | N/A |
| | | 10/7/2009 | | | | 493.91 | 4851.77 | N/A |
| | | 1/11/2010 | | | | 491.98 | 4853.70 | N/A |
| | | 5/14/2010 | | | | 490.54 | 4855.14 | N/A |
| KAFB-1065 | North of Fuels Dr. and Randolph Ave. intersection | 7/20/2009 | 507 | 479-506 | 5346.59 | 497.35 | 4851.56 | 3.01 |
| | | 10/7/2009 | | | | 498.59 | 4850.68 | 3.48 |
| | | 1/11/2010 | | | | 494.37 | 4852.41 | 0.25 |
| | | 5/14/2010 | | | | 495.75 | 4854.78 | 3.33 |
| KAFB-1066 | 1951 Offloading Rack | 7/7/2008 | 511 | 483.5-508.5 | 5351.38 | 497.00 | 4854.60 | 0.28 |
| | | 10/27/2008 | | | | 498.92 | 4853.09 | 0.82 |
| | | 1/19/2009 | | | 5353.14 | 498.14 | 4855.56 | 0.73 |
| | | 7/20/2009 | | | | 500.80 | 4853.47 | 1.47 |
| | | 10/7/2009 | | | | 501.77 | 4852.80 | 1.86 |
| | | 1/11/2010 | | | | 499.12 | 4854.17 | 0.20 |
| | | 5/14/2010 | | | | 499.68 | 4855.35 | 2.45 |

## Table 5-1. Monitoring Well Construction Details and Groundwater Elevations, Bulk Fuels Facility Spill (Continued, Page 2 of 5)

| Well Number | Location | Measurement Date | Total Well Depth (feet bgs) | Screened Interval (feet bgs) | TIC Elevation [a] (feet MSL) | Depth to Groundwater (feet below TIC) | Groundwater Elevation [b] (feet msl) | PSH Thickness (feet) |
|---|---|---|---|---|---|---|---|---|
| KAFB-1067 | Inside Tank Berm | 7/7/2008 | 511 | 484-509 | 5349.41 | 494.31 | 4855.10 | N/A |
| | | 10/27/2008 | | | | 495.84 | 4853.57 | N/A |
| | | 1/20/2009 | | | | 495.13 | 4854.28 | N/A |
| | | 4/27/2009 | | | 5349.54 | 494.72 | 4854.82 | N/A |
| | | 7/20/2009 | | | | 495.70 | 4853.84 | N/A |
| | | 10/7/2009 | | | | 496.42 | 4853.12 | N/A |
| | | 1/11/2010 | | | | 495.14 | 4854.40 | N/A |
| | | 5/14/2010 | | | | 493.41 | 4856.13 | N/A |
| KAFB-1068 | South of 90-Day Storage | 7/7/2008 | 513.5 | 486-511 | 5351.67 | 498.92 | 4854.19 | 1.87 |
| | | 10/27/2008 | | | | 500.31 | 4852.63 | 1.65 |
| | | 1/19/2009 | | | | 499.18 | 4853.46 | 1.26 |
| | | 4/27/2009 | | | 5353.45 | 500.17 | 4854.10 | 1.07 |
| | | 7/20/2009 | | | | 502.39 | 4853.15 | 2.71 |
| | | 10/7/2009 | | | | 502.77 | 4852.34 | 2.16 |
| | | 1/11/2010 | | | | 501.44 | 4853.84 | 2.38 |
| | | 5/14/2010 | | | | 501.00 | 4855.38 | 3.80 |
| KAFB-1069 | Base Fence Line | 7/7/2008 | 507.5 | 480-505 | 5344.34 | 492.08 | 4853.63 | 1.78 |
| | | 10/27/2008 | | | | 493.64 | 4852.18 | 1.92 |
| | | 1/19/2009 | | | | 492.41 | 4853.02 | 1.42 |
| | | 4/27/2009 | | | | 491.72 | 4853.65 | 1.34 |
| | | 7/20/2009 | | | | 493.12 | 4852.58 | 1.77 |
| | | 10/7/2009 | | | | 493.72 | 4851.88 | 1.63 |
| | | 1/11/2010 | | | | 491.75 | 4853.43 | 1.09 |
| | | 5/14/2010 | | | | 489.79 | 4855.16 | 0.79 |
| KAFB-10610 | Bullhead Park | 7/7/2008 | 510.5 | 483-508 | 5343.20 | 491.03 | 4852.86 | 0.89 |
| | | 10/27/2008 | | | | 492.93 | 4850.96 | 0.89 |
| | | 7/20/2009 | | | | 491.41 | 4851.79 | N/A |
| | | 10/7/2009 | | | | 492.53 | 4850.78 | 0.14 |
| | | 1/11/2010 | | | | 490.80 | 4852.44 | 0.05 |
| | | 5/14/2010 | | | | 489.90 | 4854.21 | 1.18 |
| KAFB-10611 | North of Randolph Ave. West of Super Saber Dr. | 10/27/2008 | 516 | 511-486 | 5350.03 | 501.17 | 4848.86 | N/A |
| | | 1/19/2009 | | | | 500.24 | 4849.79 | N/A |
| | | 4/27/2009 | | | 5353.03 | 499.65 | 4853.38 | N/A |
| | | 7/20/2009 | | | | 500.72 | 4852.31 | N/A |
| | | 10/7/2009 | | | 5353.01 | 501.69 | 4851.32 | N/A |
| | | 1/11/2010 | | | | 500.06 | 4852.95 | N/A |
| | | 5/14/2010 | | | | 498.16 | 4854.85 | N/A |
| KAFB-10612 | North side of Randolph Ave. North of former DRMO's eastern yard. | 10/27/2008 | 510.5 | 505.5-480.5 | 5342.27 | 493.31 | 4848.96 | N/A |
| | | 1/19/2009 | | | | 492.40 | 4849.87 | N/A |
| | | 4/27/2009 | | | 5345.27 | 492.08 | 4853.19 | N/A |
| | | 7/20/2009 | | | | 493.12 | 4852.15 | N/A |
| | | 10/7/2009 | | | 5345.31 | 494.03 | 4851.28 | N/A |
| | | 1/11/2010 | | | | 492.32 | 4852.99 | N/A |
| | | 5/14/2010 | | | | 490.07 | 4855.24 | N/A |

## Table 5-1. Monitoring Well Construction Details and Groundwater Elevations, Bulk Fuels Facility Spill (Continued, Page 3 of 5)

| Well Number | Location | Measurement Date | Total Well Depth (feet bgs) | Screened Interval (feet bgs) | TIC Elevation [a] (feet MSL) | Depth to Groundwater (feet below TIC) | Groundwater Elevation [b] (feet msl) | PSH Thickness (feet) |
|---|---|---|---|---|---|---|---|---|
| KAFB-10613 | Parking lot southeast of VA Clinic. | 10/27/2008 | 516.5 | 511.5-486.5 | 5350.45 | 498.80 | 4851.65 | N/A |
| | | 1/19/2009 | | | | 498.97 | 4851.48 | N/A |
| | | 4/27/2009 | | | 5350.45 | 497.69 | 4852.76 | N/A |
| | | 7/20/2009 | | | | 498.81 | 4851.64 | N/A |
| | | 10/7/2009 | | | | 499.61 | 4850.84 | N/A |
| | | 1/11/2010 | | | | 497.44 | 4853.01 | N/A |
| | | 5/14/2010 | | | | 495.71 | 4854.74 | N/A |
| KAFB-10614 | North of Randolph Ave. Between Fuel Dr and Super Saber Dr. | 10/27/2008 | 516 | 511-486 | 5343.08 | 498.96 | 4853.72 | 1.55 |
| | | 1/19/2009 | | | | 497.77 | 4846.13 | 1.07 |
| | | 1/27/2009 | | | | 489.95 | 4853.60 | 0.61 |
| | | 4/27/2009 | | | 5350.08 | 497.03 | 4853.57 | 0.68 |
| | | 7/20/2009 | | | | 498.34 | 4852.56 | 1.07 |
| | | 10/7/2009 | | | | 499.48 | 4851.71 | 1.44 |
| | | 1/11/2010 | | | | 497.32 | 4853.24 | 0.62 |
| | | 5/15/2010 | | | | 495.07 | 4855.19 | 0.23 |
| KAFB-10615 | Southeast of the intersection of Gibson Blvd and Lousiana Blvd. | 10/27/2008 | 515 | 510-485 | 5342.44 | 497.61 | 4844.83 | N/A |
| | | 1/19/2009 | | | | 494.04 | 4848.40 | N/A |
| | | 4/27/2009 | | | | 492.88 | 4849.56 | N/A |
| | | 7/20/2009 | | | | 494.51 | 4847.93 | N/A |
| | | 10/7/2009 | | | 5342.31 | 495.65 | 4846.66 | N/A |
| | | 1/11/2010 | | | | 492.85 | 4849.46 | N/A |
| | | 5/14/2010 | | | | 490.22 | 4852.09 | N/A |
| KAFB-10616 | In the western portion of the facility, southeast of Bldg 1039. | 10/27/2008 | 505 | 500-475 | 5342.30 | 490.37 | 4851.93 | N/A |
| | | 1/19/2009 | | | | 487.29 | 4855.01 | N/A |
| | | 4/27/2009 | | | | 487.12 | 4855.18 | N/A |
| | | 7/20/2009 | | | | 488.03 | 4854.27 | N/A |
| | | 10/7/2009 | | | 5342.34 | 488.85 | 4853.49 | N/A |
| | | 1/11/2010 | | | | 487.50 | 4854.84 | N/A |
| | | 5/15/2010 | | | | N/A | Pump obstruction | N/A |
| KAFB-10617 | In the dirt field south of intersection of Ridegcrest and Dakota. | 1/19/2009 | 512 | 507-482 | 5342.51 | 491.32 | 4851.19 | N/A |
| | | 4/27/2009 | | | | 490.75 | 4851.76 | N/A |
| | | 7/20/2009 | | | | 491.77 | 4850.74 | N/A |
| | | 10/7/2009 | | | | 492.75 | 4849.76 | N/A |
| | | 1/11/2010 | | | | 491.71 | 4850.80 | N/A |
| | | 5/14/2010 | | | | 488.83 | 4853.68 | N/A |
| KAFB-10618 | Southeast of the intersection of San Pedro Dr and Ridgecrest Dr. | 1/19/2009 | 506 | 501-476 | 5335.97 | 484.59 | 4851.38 | N/A |
| | | 4/27/2009 | | | | 484.04 | 4851.93 | N/A |
| | | 7/20/2009 | | | | 484.99 | 4850.98 | N/A |
| | | 10/7/2009 | | | | 486.01 | 4849.96 | N/A |
| | | 1/11/2010 | | | | 483.90 | 4852.07 | N/A |
| | | 4/13/2010 | | | | 482.10 | 4853.87 | N/A |
| | | 5/14/2010 | | | | 482.22 | 4853.75 | <0.01[c] |

## Table 5-1. Monitoring Well Construction Details and Groundwater Elevations, Bulk Fuels Facility Spill (Continued, Page 4 of 5)

| Well Number | Location | Measurement Date | Total Well Depth (feet bgs) | Screened Interval (feet bgs) | TIC Elevation [a] (feet MSL) | Depth to Groundwater (feet below TIC) | Groundwater Elevation [b] (feet msl) | PSH Thickness (feet) |
|---|---|---|---|---|---|---|---|---|
| KAFB-10619 | In the dirt field, north of Bullhead Park parking lot. | 1/19/2009 | 523 | 518-493 | 5354.67 | 502.96 | 4851.71 | N/A |
| | | 4/27/2009 | | | | 502.33 | 4852.34 | N/A |
| | | 7/20/2009 | | | | 503.44 | 4851.23 | N/A |
| | | 10/7/2009 | | | | 504.38 | 4850.29 | N/A |
| | | 1/11/2010 | | | | 502.42 | 4852.25 | N/A |
| | | 5/14/2010 | | | | 500.70 | 4853.97 | N/A |
| KAFB-10620 | In the southwest corner of VA hospital staff parking lot. | 1/19/2009 | 512 | 507-482 | 5340.75 | 489.54 | 4851.21 | N/A |
| | | 4/27/2009 | | | | 488.62 | 4852.13 | N/A |
| | | 7/20/2009 | | | | 489.63 | 4851.12 | N/A |
| | | 10/7/2009 | | | | 490.55 | 4850.20 | N/A |
| | | 1/11/2010 | | | | 488.77 | 4851.98 | N/A |
| | | 5/14/2010 | | | | 486.82 | 4853.93 | N/A |
| KAFB-10621 | East side of San Pedro Dr, between Gibson and Ridegecrest. | 7/20/2009 | 488 | 458-483 | 5314.31 | 464.01 | 4850.30 | N/A |
| | | 10/7/2009 | | | | 465.08 | 4849.23 | N/A |
| | | 1/11/2010 | | | | 463.20 | 4851.11 | N/A |
| | | 5/14/2010 | | | | 461.05 | 4853.26 | N/A |
| KAFB-10622 | East side of Dakota St, south of Gibson Blvd. | 7/20/2009 | 492 | 462-487 | 5318.02 | 468.57 | 4849.45 | N/A |
| | | 10/7/2009 | | | | 469.82 | 4848.20 | N/A |
| | | 1/11/2010 | | | | 467.62 | 4850.40 | N/A |
| | | 5/14/2010 | | | | 465.15 | 4852.87 | N/A |
| KAFB-10623 | 1300 block of Hertz Dr SE. | 7/20/2009 | 503 | 473-498 | 5328.43 | 478.53 | 4849.90 | N/A |
| | | 10/7/2009 | | | | 479.63 | 4848.80 | N/A |
| | | 1/11/2010 | | | | 477.51 | 4850.92 | N/A |
| | | 5/14/2010 | | | | 475.32 | 4853.11 | N/A |
| KAFB-10624 | In the facility, east of the east end of the Former Fuel Offloading Rack. | 10/7/2009 | 511 | 481-506 | 5343.35 | 490.61 | 4852.74 | N/A |
| | | 1/11/2010 | | | | 489.21 | 4854.14 | N/A |
| | | 5/14/2010 | | | | 487.46 | 4855.89 | N/A |
| KAFB-10625 | South side of Eastern Ave, west of California St. | 1/11/2010 | 495 | 465-490 | 5317.05 | 467.61 | 4849.44 | N/A |
| | | 5/14/2010 | | | | 465.06 | 4851.99 | N/A |
| KAFB-10626 | North side of Anderson Ave, east of Florida St. | 5/14/2010 | 491 | 466-486 | 5322.39 | 471.44 | 4850.95 | N/A |
| KAFB-10627 | South of the facility, along flightline fence. | 5/14/2010 | 506 | 481-501 | 5348.36 | 488.01 | 4860.35 | N/A |
| KAFB-10628 | Bullhead Park | N/A | 516 | 491-511 | 5348.75 | Construction not complete at the time of the water level measurement event | | |

## Table 5-1. Monitoring Well Construction Details and Groundwater Elevations, Bulk Fuels Facility Spill (Concluded, Page 5 of 5)

| Well Number | Location | Measurement Date | Total Well Depth (feet bgs) | Screened Interval (feet bgs) | TIC Elevation [a] (feet MSL) | Depth to Groundwater (feet below TIC) | Groundwater Elevation [b] (feet msl) | PSH Thickness (feet) |
|---|---|---|---|---|---|---|---|---|
| KAFB-3411 | South of southern fenceline around western portion of the facility. | 7/7/2008 | 503 | 477-502 | 5343.29 | 488.46 | 4854.83 | N/A |
| | | 10/27/2008 | | | | 489.81 | 4853.48 | N/A |
| | | 1/19/2009 | | | | 489.01 | 4854.28 | N/A |
| | | 4/27/2009 | | | 5343.49 | 488.78 | 4854.71 | N/A |
| | | 7/20/2009 | | | | 489.69 | 4853.80 | N/A |
| | | 10/7/2009 | | | | 490.41 | 4853.08 | N/A |
| | | 1/11/2010 | | | | 489.01 | 4854.48 | N/A |
| | | 5/15/2010 | | | | 487.47 | 4856.02 | N/A |

[a] The monitoring well elevations were surveyed during May 2008, April 2009, November 2009, and May 2010. Some wellheads were modified and re-surveyed. Use survey data from the latest date.

[b] Groundwater elevation was calculated accounting for product thickness and density using the following:
groundwater elevation = top of casing elevation - depth to water - (product thickness * specific gravity of product).

[c] Tagger indicated PSH was present, but less than 0.01-ft thick.

feet bgs = feet below ground surface.

feet msl = feet above mean sea level.

N/A = not applicable.

TIC = Top of inner casing.

**Table 5-2. Passive Diffusion Bag (PDB) Deployment, Bulk Fuels Facility**

| Well Number | Total Well Depth (feet btoc) | Well Diameter (inches) | Screen Interval (feet btoc) | Number of PDBs Installed | Midpoint Depth of PDB (feet btoc) |
|---|---|---|---|---|---|
| KAFB-10613 | 519.5 | 4 | 489.5 - 514.5 | 3 | 500.5<br>505.5<br>513.5 |
| KAFB-10617 | 515 | 4 | 485 - 510 | 3 | 493<br>498<br>509 |
| KAFB-10618 | 509 | 4 | 479 - 504 | 3 | 486<br>491<br>501 |
| KAFB-10619 | 526 | 4 | 496 - 521 | 3 | 504.5<br>509.5<br>518 |
| KAFB-10620 | 515 | 4 | 485 - 510 | 3 | 491<br>496<br>507 |
| KAFB-10621 | 488 | 4 | 458 - 483 | 3 | 466.5<br>471.5<br>482 |
| KAFB-10622 | 492 | 4 | 462 - 487 | 3 | 471.5<br>476.5<br>486 |
| KAFB-10623 | 503 | 4 | 473 - 498 | 3 | 481<br>486<br>497 |
| KAFB-10625 | 495 | 4 | 465-490 | 3 | 473<br>478<br>486 |

feet btoc = feet below top of casing.
PDB = passive diffusion bag

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 1 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-1061 | KAFB-1062 | KAFB-1063 | KAFB-1064 | KAFB-1065 | KAFB-1066 | KAFB-1067 | KAFB-1068 | KAFB-1069 | | KAFB-10610 | KAFB-10611 | KAFB-10612 | KAFB-10613 | KAFB-10614 | KAFB-10615 | KAFB-10616 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 4/30/10 | 5/3/10 | 5/5/10 | 6/16/10 | 6/21/10 | 4/30/10 | 6/21/10 | 5/6/10 | 6/16/10 | 6/14/10 | 4/28/10 | 4/29/10 | 4/22/10 | 6/21/10 | 4/28/10 | 5/3/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **TPH** (mg/L) | DRO | N/A | N/A | 260 U | 250 U | 260 U | 260 U | 464000 | 38200 | 250 U | 66100 | - - | 19200 | 87100 | 260 U | 260 U | 68 J | 121000 | 260 U | 240 U |
| Method 8015B | GRO | N/A | N/A | 14 J | 22 J | 64 U | 64 U | 76100 | 31200 | 110 | 22500 | 10500 | 76100 | 449000 | 64 U | 64 U | 46 J | 55200 J | 64 U | 64 U |
| VOCs (µg/L) | 1,1,1,2-Tetrachloroethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| Method 8260 | 1,1,1-Trichloroethane | N/A | 60 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| (except EDB | 1,1,2,2-Tetrachloroethane | N/A | 10 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| and DBCP by | 1,1,2-Trichloroethane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| method 504.1) | 1,1-Dichloroethane | N/A | 25 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 0.2 J | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,1-Dichloroethene | N/A | 5.0 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,1-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | N/A | N/A | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 24.4 U | 61 U | 1.2 U | 61 U | 12.2 U | 61 U | 61 U | 1.2 U | 1.2 U | 1.2 U | 61 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | N/A | N/A | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 30.4 U | 76 U | 1.5 U | 76 U | 15.2 U | 76 U | 76 U | 1.5 U | 1.5 U | 1.5 U | 76 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 562 J | 154 | 1 U | 265 | 81.6 | 333 | 704 | 1 U | 1 U | 1 U | 404 | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | N/A | 0.2 | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U | 5 U | 250 U | 50 U | 250 U | 250 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | N/A | 0.05 | **0.065** | 0.0197 U | 0.02 U | 0.0198 U | **120 J** | **149** | 0.0199 U | **258** | **39.6** | **90.3** | **117** | 0.0196 U | 0.0199 U | 0.0197 U | **286** | 0.02 U | 0.0199 U |
| | 1,2-Dichlorobenzene | N/A | 600 | **- -** | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,2-Dichloropropane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 241 J | 56.5 | 0.39 J | 96.3 | 26.6 | 123 | 234 | 1 U | 1 U | 1 U | 134 | 1 U | 1 U |
| | 1,3-Dichlorobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,3-Dichloropropane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | N/A | 75 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 2,2-Dichloropropane | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U | 5 U | 250 U | 50 U | 250 U | 250 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U |
| | 2-Butanone (MEK) | N/A | N/A | 6 U | 6 U | 6 U | 6 U | 282 J | 300 U | 6 U | 255 J | 24.7 J | 300 U | 604 J | 6 U | 6 U | 6 U | 1090 | 6 U | 6 U |
| | 2-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 2-Hexanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 100 U | 51.4 J | 5 U | 529 | 60.7 | 250 U | 136 J | 5 U | 5 U | 5 U | 407 | 5 U | 5 U |
| | 4-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 4-Isopropyltoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U | 5 U | 301 | 133 | 250 U | 250 U | 5 U | 5 U | 5 U | 134 J | 5 U | 5 U |
| | Acetone | N/A | N/A | 10 U | 10 U | 10 U | 10 U | 1410 J | 276 J | 10 U | 1420 | 185 | 500 U | 1610 J | 10 U | 10 U | 10 U | 3700 | 10 U | 10 U |
| | Benzene | N/A | 5.0 | 0.64 J | 1 U | 1 U | 1 U | **2920** | **2400** | 1 U | **4900** | **3330** | **4050** | **3600** | 1 U | 1 U | 1 U | **5240** | 1 U | 1 U |
| | Bromobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Bromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Bromodichloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Bromoform | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Bromomethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 2 U | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |
| | Carbon disulfide | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 2 U | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |
| | Carbon tetrachloride | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Chlorobenzene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Chloroethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 2 U | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |
| | Chloroform | N/A | 100 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Chloromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 2 U | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Dibromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Dibromomethane | N/A | N/A | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 21.2 U | 53 U | 1.1 U | 53 U | 10.6 U | 53 U | 53 U | 1.1 U | 1.1 U | 1.1 U | 53 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 0.86 J | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 2 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-10617 | KAFB-10618 | KAFB-10619 | KAFB-10620 | KAFB-10621 | KAFB-10622 | KAFB-10623 | KAFB-10624 | KAFB-10625 | KAFB-10626 | KAFB-10627 | KAFB-10628 | KAFB-3411 | VA Hospital Production | KAFB-03 | KAFB-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/19/10 | 4/20/10 | 4/20/10 | 4/21/10 | 4/22/10 | 4/26/10 | 4/26/10 | 4/27/10 | 4/16/10 | 4/27/10 | 5/5/10 | 6/14/10 | 5/3/10 | 5/6/10 | 5/6/10 | 5/6/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | N/A | N/A | 110 J | 12800 | 170 J | 260 U | 250 J | 360 | 58 J | 460 | 260 U | 390 | 86 J | 38800 | 260 U | 260 U | 270 U | 270 U |
| | GRO | N/A | N/A | 200 | 7300 | 110 | 300 | 170 | 130 | 100 | 160 | 200 | 64 U | 17 J | 40100 | 17 J | 64 U | 64 U | 64 U |
| VOCs (µg/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | N/A | 60 * | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | N/A | 10 * | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | N/A | 5.0 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | N/A | 25 * | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | N/A | 5.0 * | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | N/A | N/A | 1.2 U | 6.1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 61 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | N/A | N/A | 1.5 U | 7.6 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 76 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | N/A | 70 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | N/A | N/A | 2.4 | 147 | 1 U | 1 U | 1.4 | 1.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 335 | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | N/A | 0.2 | 5 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | N/A | 0.05 | **1.4** | **4.2** | **0.38 J** | 0.02 U | **0.32** | **0.94** | 0.02 U | **0.13** | 0.027 J | 0.0195 U | 0.0199 U | **170** | 0.0197 U | 0.0198 U | 0.01990 U | 0.0198 U |
| | 1,2-Dichlorobenzene | N/A | 600 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | N/A | 5.0 | 0.16 J | **6.3** | 1 U | 1 U | 0.38 J | 0.2 J | 1 U | 0.26 J | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | N/A | 5.0 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | N/A | N/A | 0.25 J | 42.2 | 1 U | 1 U | 2.4 | 0.31 J | 1 U | 1 U | 1 U | 1 U | 1 U | 114 | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | N/A | 75 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 2,2-Dichloropropane | N/A | N/A | 5 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | N/A | N/A | 6 U | 20.9 J | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 675 J | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | N/A | N/A | 5 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 236 J | 5 U | 5 U | 5 U | 5 U |
| | 4-Chlorotoluene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | N/A | N/A | 1 U | 3.7 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | N/A | N/A | 5 U | 114 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 165 J | 5 U | 5 U | 5 U | 5 U |
| | Acetone | N/A | N/A | 10 U | 50 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 2.2 J | 2900 J | 10 U | 10 U | 10 U | 10 U |
| | Benzene | N/A | 5.0 | 1 U | **848** | 1 U | 1 U | 1 U | 1 U | 1 U | 1.4 | 1 U | 1 U | 1 U | **3990** | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | N/A | N/A | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | N/A | N/A | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | N/A | 5.0 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | N/A | 100 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | N/A | N/A | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | N/A | 100 * | 1 U | 1.3 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.46 J | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | N/A | N/A | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | N/A | 70 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 0.26 J | 1 U |
| | cis-1,3-Dichloropropene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromochloromethane | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | N/A | N/A | 1.1 U | 5.3 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 53 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | N/A | N/A | 0.51 J | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 3 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-1061 | KAFB-1062 | KAFB-1063 | KAFB-1064 | KAFB-1065 | KAFB-1066 | KAFB-1067 | KAFB-1068 | KAFB-1069 | | KAFB-10610 | KAFB-10611 | KAFB-10612 | KAFB-10613 | KAFB-10614 | KAFB-10615 | KAFB-10616 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 4/30/10 | 5/3/10 | 5/5/10 | 6/16/10 | 6/21/10 | 4/30/10 | 6/21/10 | 5/6/10 | 6/16/10 | 6/14/10 | 4/28/10 | 4/29/10 | 4/22/10 | 6/21/10 | 4/28/10 | 5/3/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **VOCs** (µg/L) Method 8260 (except EDB and DBCP by method 504.1) | Ethylbenzene | N/A | 700 | 1 U | 1 U | 1 U | 1 U | 474 J | 568 | 1 U | **980** | 416 | **1220** | **1770** | 1 U | 1 U | 1 U | **1140** | 1 U | 1 U |
| | Hexachlorobutadiene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 20.4 U | 1 U | 52.6 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Isopropylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 87.2 J | 48.1 J | 1 U | 86.6 | 30.9 | 105 | 190 | 0.36 J | 1 U | 1 U | 108 | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U | 5 U | 250 U | 50 U | 250 U | 250 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U |
| | Methylene chloride | N/A | 5.0 | 5 U | 5 U | 5 U | 5 U | 100 U | **67.1 J** | 5 U | **48.3 J** | 50 U | 250 U | 250 U | 5 U | 5 U | 5 U | **53.7 J** | 5 U | 5 U |
| | n-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 88.3 J | 16.7 J | 1 U | 23 J | 10 U | 24.4 J | 71 | 1 U | 1 U | 1 U | 31.4 J | 1 U | 1 U |
| | n-Propylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 122 J | 73.9 | 1 U | 119 | 24.7 | 131 | 249 | 1 U | 1 U | 1 U | 146 | 1 U | 1 U |
| | sec-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 59.1 J | 15.8 J | 1 U | 22.4 J | 3.6 J | 20.8 J | 54.6 | 1 U | 1 U | 1 U | 28.7 J | 1 U | 1 U |
| | Styrene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | tert-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Tetrachloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 0.32 J | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Toluene | N/A | 750 * | 0.16 J | 1 U | 1 U | 1 U | **6290** | **9070** | 1 U | **12300** | **6250** | **11900** | **11100** | 1 U | 1 U | 27.2 | **11800** | 1 U | 1 U |
| | trans-1,2-DCE | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Trichloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 0.21 J | 20 U | 50 U | 0.31 J | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Trichlorofluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U | 0.32 J | 100 U | 20 U | 100 U | 100 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U |
| | Vinyl chloride | N/A | 1.0 * | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U | 1 U | 50 U | 10 U | 50 U | 50 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 1710 J | 1200 | 2 U | 2190 | 828 | 2340 | 3330 | 2 U | 2 U | 2 U | 2370 | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 732 J | 564 | 1 U | 958 | 486 | 1110 | 1420 | 1 U | 1 U | 1 U | 1100 | 1 U | 1 U |
| | Xylenes, Total | N/A | 620 * | 3 U | 3 U | 3 U | 3 U | **2440 J** | **1760** | 3 U | **3140** | **1310** | **3440** | **4750** | 3 U | 3 U | 3 U | **3470** | 3 U | 3 U |
| **SVOCs** (µg/L) Method 8270 | 1,2-Diphenylhydrazine | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 20.9 J | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 1,3-Dinitrobenzene | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | - - | - - | 10.4 U | - - | - - | - - | - - | 10.4 U | 10.3 U | 10.3 U | - - | 10.3 U | 10.9 U |
| | 2,4,5-Trichlorophenol | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | -- | -- | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 2,4,6-Trichlorophenol | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 2,4-Dichlorophenol | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 2,4-Dimethylphenol | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 230 | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 2,4-Dinitrophenol | N/A | N/A | 61.2 U | 61.2 U | 62.5 U | 61.5 U | 6120 U | 122 U | 62.2 U | 316 U | - - | 612 U | 3370 U | 62.5 U | 61.8 U | 61.8 U | 3330 U | 61.8 U | 65.2 U |
| | 2,4-Dinitrotoluene | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 2,6-Dinitrotoluene | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 2-Chloronaphthalene | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 2-Chlorophenol | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 2-Methylphenol | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1090 | 20.4 U | 10.4 U | 211 | - - | 57.4 J | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 2-Nitroaniline | N/A | N/A | 51 U | 51 U | 52.1 U | 51.3 U | 5100 U | 102 U | 51.8 U | 263 U | - - | 510 U | 2810 U | 52.1 U | 51.5 U | 51.5 U | 2780 U | 51.5 U | 54.4 U |
| | 2-Nitrophenol | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 3,3´-Dichlorobenzidine | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 R | 20.7 U | 105 R | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 R | 20.6 U | 21.7 U |
| | 3,4-Methylphenol | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 1300 J | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 4840 | 20.6 U | 21.7 U |
| | 3-Nitroaniline | N/A | N/A | 51 U | 51 U | 52.1 U | 51.3 U | 5100 U | 102 U | 51.8 U | 263 U | - - | 510 U | 2810 U | 52.1 U | 51.5 U | 51.5 U | 2780 U | 51.5 U | 54.4 U |
| | 4,6-Dinitro-2-methylphenol | N/A | N/A | 61.2 U | 61.2 U | 62.5 U | 61.5 U | 6120 U | 122 U | 62.2 U | 316 U | - - | 612 U | 3370 U | 62.5 U | 61.8 U | 61.8 U | 3330 U | 61.8 U | 65.2 U |
| | 4-Bromophenyl phenyl ether | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 4-Chloro-3-methylphenol | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 4-Chloroaniline | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | 4-Chlorophenyl phenyl ether | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 4-Nitroaniline | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | 4-Nitrophenol | N/A | N/A | 51 U | 51 U | 52.1 U | 51.3 U | 5100 U | 102 U | 51.8 U | 263 U | - - | 510 U | 2810 U | 52.1 U | 51.5 U | 51.5 U | 2780 U | 51.5 U | 54.4 U |
| | Benzidine | N/A | N/A | 153 U | 153 U | 156 U | 154 U | 15300 U | 306 R | 155 U | 789 R | - - | 1530 U | 8430 U | 156 U | 155 U | 155 U | 8330 R | 155 U | 163 U |
| | Benzoic acid | N/A | N/A | 61.2 U | 61.2 U | 62.5 U | 61.5 U | 6120 U | 122 U | 62.2 U | 316 U | - - | 612 U | 3370 U | 62.5 U | 61.8 U | 61.8 U | 3330 U | 61.8 U | 65.2 U |
| | Bis(2-chloroethoxy)methane | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 293 J | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Bis(2-chloroethyl)ether | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 4 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-10617 | KAFB-10618 | KAFB-10619 | KAFB-10620 | KAFB-10621 | KAFB-10622 | KAFB-10623 | KAFB-10624 | KAFB-10625 | KAFB-10626 | KAFB-10627 | KAFB-10628 | KAFB-3411 | VA Hospital Production | KAFB-03 | KAFB-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/19/10 | 4/20/10 | 4/20/10 | 4/21/10 | 4/22/10 | 4/26/10 | 4/26/10 | 4/27/10 | 4/16/10 | 4/27/10 | 5/5/10 | 6/14/10 | 5/3/10 | 5/6/10 | 5/6/10 | 5/6/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **VOCs** (µg/L) Method 8260 (except EDB and DBCP by method 504.1) | Ethylbenzene | N/A | 700 | 1 U | 238 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **1230** | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | N/A | N/A | 1.9 | 50.8 | 0.26 J | 3 | 1.6 | 1.1 J | 1 U | 1 U | 1 U | 1 U | 1 U | 103 | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | N/A | N/A | 5 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | N/A | 5.0 | 5 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| | n-Butylbenzene | N/A | N/A | 1 U | 5.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 25.6 J | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | N/A | N/A | 0.2 J | 35.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 120 | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | N/A | N/A | 0.24 J | 6.8 | 1 U | 0.39 J | 0.18 J | 0.13 J | 1 U | 1 U | 1 U | 1 U | 1 U | 21.6 J | 1 U | 1 U | 1 U | 1 U |
| | Styrene | N/A | 100 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | N/A | 5.0 | 0.29 J | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | N/A | 750 * | 14 | 45.4 | 47.1 | 17.9 | 47.3 | 53 | 72.1 | 75.1 | 91.8 | 2.7 | 9.9 | **11500** | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | N/A | 100 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | N/A | N/A | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | N/A | 5.0 | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | N/A | N/A | 0.19 J | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | N/A | 1.0 * | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 0.36 J | 1 U |
| | Xylenes, m-, p- (sum of isomers) | N/A | N/A | 8.2 | 564 | 2 U | 2 U | 7.5 | 3.2 | 2 U | 2 U | 2 U | 2 U | 2 U | 2410 | 2 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | N/A | N/A | 1 U | 167 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1030 | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | N/A | 620 * | 8.2 | **731** | 3 U | 3 U | 7.5 | 3.2 | 3 U | 3 U | 3 U | 3 U | 3 U | **3440** | 3 U | 3 U | 3 U | 3 U |
| **SVOCs** (µg/L) Method 8270 | 1,2-Diphenylhydrazine | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 1,3-Dinitrobenzene | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | - - | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2,4,5-Trichlorophenol | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 2,4,6-Trichlorophenol | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 2,4-Dichlorophenol | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2,4-Dimethylphenol | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2,4-Dinitrophenol | N/A | N/A | 63.2 U | 64.5 U | 61.8 U | 66.7 U | 63.5 U | 63.2 U | 60.9 U | 60.6 U | 63.5 U | 63.2 U | 62.2 U | 3300 U | 62.2 U | 61.2 U | 65.9 U | 62.5 U |
| | 2,4-Dinitrotoluene | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 2,6-Dinitrotoluene | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 2-Chloronaphthalene | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2-Chlorophenol | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2-Methylphenol | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 4.9 J | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 2-Nitroaniline | N/A | N/A | 52.6 U | 53.8 U | 51.5 U | 55.6 U | 52.9 U | 52.6 U | 50.8 U | 50.5 U | 52.9 U | 52.6 U | 51.8 U | 2750 U | 51.8 U | 51 U | 54.9 U | 52.1 U |
| | 2-Nitrophenol | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 3,3´-Dichlorobenzidine | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 3,4-Methylphenol | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 3-Nitroaniline | N/A | N/A | 52.6 U | 53.8 U | 51.5 U | 55.6 U | 52.9 U | 52.6 U | 50.8 U | 50.5 U | 52.9 U | 52.6 U | 51.8 U | 2750 U | 51.8 U | 51 U | 54.9 U | 52.1 U |
| | 4,6-Dinitro-2-methylphenol | N/A | N/A | 63.2 U | 64.5 U | 61.8 U | 66.7 U | 63.5 U | 63.2 U | 60.9 U | 60.6 U | 63.5 U | 63.2 U | 62.2 U | 3300 U | 62.2 U | 61.2 U | 65.9 U | 62.5 U |
| | 4-Bromophenyl phenyl ether | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 4-Chloro-3-methylphenol | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 4-Chloroaniline | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | 4-Chlorophenyl phenyl ether | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 4-Nitroaniline | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | 4-Nitrophenol | N/A | N/A | 52.6 U | 53.8 U | 51.5 U | 55.6 U | 52.9 U | 52.6 U | 50.8 U | 50.5 U | 52.9 U | 52.6 U | 51.8 U | 2750 U | 51.8 U | 51 U | 54.9 U | 52.1 U |
| | Benzidine | N/A | N/A | 158 U | 161 U | 155 U | 167 U | 159 U | 158 U | 152 U | 152 R | 159 U | 158 U | 155 U | 8240 U | 155 U | 153 U | 165 U | 156 U |
| | Benzoic acid | N/A | N/A | 63.2 U | 64.5 U | 61.8 U | 66.7 U | 63.5 U | 63.2 U | 60.9 U | 60.6 U | 63.5 U | 63.2 U | 62.2 U | 3300 U | 62.2 U | 61.2 U | 65.9 U | 62.5 U |
| | Bis(2-chloroethoxy)methane | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Bis(2-chloroethyl)ether | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 5 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-1061 | KAFB-1062 | KAFB-1063 | KAFB-1064 | KAFB-1065 | KAFB-1066 | KAFB-1067 | KAFB-1068 | KAFB-1069 | | KAFB-10610 | KAFB-10611 | KAFB-10612 | KAFB-10613 | KAFB-10614 | KAFB-10615 | KAFB-10616 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 4/30/10 | 5/3/10 | 5/5/10 | 6/16/10 | 6/21/10 | 4/30/10 | 6/21/10 | 5/6/10 | 6/16/10 | 6/14/10 | 4/28/10 | 4/29/10 | 4/22/10 | 6/21/10 | 4/28/10 | 5/3/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **SVOCs** (µg/L) Method 8270 | Bis(2-ethylhexyl)phthalate | N/A | N/A | 10.2 U | 19.4 | 10.4 U | 14 | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Butyl benzyl phthalate | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | Dibenzofuran | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Diethyl phthalate | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Dimethyl phthalate | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Di-n-butyl phthalate | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | Di-n-octyl phthalate | N/A | N/A | 20.4 U | 20.4 U | 4.5 J | 20.5 U | 2040 U | 4.5 J | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | Hexachlorobenzene | N/A | 1.0 | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Hexachlorocyclopentadiene | N/A | 50 | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Hexachloroethane | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Nitrobenzene | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | N-Nitrosodi-n-propylamine | N/A | N/A | 20.4 U | 20.4 U | 20.8 U | 20.5 U | 2040 U | 40.8 U | 20.7 U | 105 U | - - | 204 U | 1120 U | 20.8 U | 20.6 U | 20.6 U | 1110 U | 20.6 U | 21.7 U |
| | N-Nitrosodiphenylamine | N/A | N/A | 10.2 U | 10.2 U | 10.4 U | 10.2 U | 1020 U | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| | Pentachlorophenol | N/A | 1.0 | 61.2 U | 61.2 U | 62.5 U | 61.5 U | 6120 U | 122 U | 62.2 U | 316 U | - - | 612 U | 3370 U | 62.5 U | 61.8 U | 61.8 U | 3330 U | 61.8 U | 65.2 U |
| | Phenol | N/A | 5.0 * | 10.2 U | 10.2 U | 10.4 U | 10.2 U | **605 J** | 20.4 U | 10.4 U | 52.6 U | - - | 102 U | 562 U | 10.4 U | 10.3 U | 10.3 U | 556 U | 10.3 U | 10.9 U |
| **PAHs** (µg/L) Method 8310 | 1-Methylnaphthalene | N/A | 30* [e] | 1 U | 1 U | 1 U | 1 U | **29000** | **71.4** | 1 U | **84.4** | - - | **87.1** | **299** | 1 U | 1 U | 1 U | **198** | 1 U | 0.95 U |
| | 2-Methylnaphthalene | N/A | 30* [e] | 1 U | 1 U | 1 U | 1 U | **31700** | **78** | 1 U | **116** | - - | **121** | **385** | 1 U | 1 U | 1 U | **243** | 1 U | 0.95 U |
| | Acenaphthene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 16.8 U | 1.1 U | 1 U | 1.1 U | - - | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Acenaphthylene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 16.8 U | 1.1 U | 1 U | 1.1 U | - - | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Anthracene | N/A | N/A | 0.3 U | 0.31 U | 0.31 U | 0.32 U | 5 U | 0.33 U | 0.31 U | 0.32 U | - - | 0.33 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.33 U | 0.31 U | 0.28 U |
| | Benz(a)anthracene | N/A | N/A | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.2 U | 0.21 U | - - | 0.22 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Benzo(a)pyrene | N/A | 0.2 | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.2 U | 0.21 U | - - | 0.22 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Benzo(b)fluoranthene | N/A | N/A | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.2 U | 0.055 J | - - | 0.22 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Benzo(g,h,i)perylene | N/A | N/A | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.2 U | 0.21 U | - - | 0.22 U | 0.2 U | 0.098 J | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Benzo(k)fluoranthene | N/A | N/A | 0.15 U | 0.15 U | 0.15 U | 0.16 U | 2.5 U | 0.16 U | 0.15 U | 0.16 U | - - | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.16 U | 0.15 U | 0.14 U |
| | Chrysene | N/A | N/A | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 35 | 0.22 U | 0.2 U | 0.21 U | - - | 0.22 U | 0.28 | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Dibenz(a,h)anthracene | N/A | N/A | 0.3 U | 0.31 U | 0.31 U | 0.32 U | 5 U | 0.33 U | 0.31 U | 0.094 J | - - | 0.33 U | 0.31 U | 0.36 | 0.31 U | 0.31 U | 0.33 U | 0.31 U | 0.28 U |
| | Fluoranthene | N/A | N/A | 0.41 U | 0.41 U | 0.42 U | 0.42 U | 6.7 U | 0.44 U | 0.41 U | 0.43 U | - - | 0.43 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.44 U | 0.41 U | 0.38 U |
| | Fluorene | N/A | N/A | 0.3 U | 0.31 U | 0.31 U | 0.32 U | 5 U | 0.33 U | 0.31 U | 0.32 U | - - | 0.33 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.33 U | 0.31 U | 0.28 U |
| | Indeno(1,2,3-cd)pyrene | N/A | N/A | 0.035 J | 0.038 J | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.032 J | 0.21 U | - - | 0.22 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| | Naphthalene | N/A | 30* [e] | 0.083 J | 1 U | 1 U | 1 U | **440 J** | **142 J** | 1 U | **151 J** | **34.3** | **170 J** | **297** | 1 U | 1 U | 1 U | **289 J** | 1 U | 0.95 U |
| | Phenanthrene | N/A | N/A | 0.3 U | 0.31 U | 0.31 U | 0.32 U | 5 U | 0.33 U | 0.31 U | 0.32 U | - - | 0.33 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.33 U | 0.31 U | 0.28 U |
| | Pyrene | N/A | N/A | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 3.4 U | 0.22 U | 0.2 U | 0.21 U | - - | 0.22 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U | 0.21 U | 0.19 U |
| **Metals** (mg/L) Method 6010 | Calcium | N/A | N/A | 47 | 43.6 | 98.6 | 55.8 | 128 | 47.8 | 56.6 | 52.9 | 67.9 | 61.4 | 57.1 | 38.2 | 137 | 41 | 76.6 | 42.4 | 39.6 |
| | Iron | N/A | 0.3 (s) | 0.147 U | 0.1 U | 0.1 U | 0.1 U | 0.0914 J | 0.0621 J | 0.1 U | 0.183 | **0.909** | 0.161 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.0998 J | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.00531 J | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.00431 J | 0.00574 J | 0.015 U | 0.015 U | 0.00574 J | 0.00549 J | 0.015 U | 0.015 U |
| | Magnesium | N/A | N/A | 7.34 | 6.71 | 15.6 | 8.87 | 19.4 | 7.47 | 8.16 | 8.27 | 11.2 | 9.67 | 8.16 | 5.6 | 22.1 | 5.9 | 11.6 | 5.68 | 6.21 |
| | Manganese | N/A | 0.05 (s) | **0.211** | 0.0133 | 0.000352 J | 0.01 U | **2.56** | **0.469** | 0.0365 | **0.938** | **2.1** | **2.58 J** | **0.543** | 0.01 U | **0.203** | 0.00258 J | **0.399** | 0.00187 J | 0.0156 |
| | Potassium | N/A | N/A | 2.46 | 2.59 | 4.06 | 3.0 | 4.87 | 2.58 | 2.58 | 2.68 | 3.38 | 3.28 | 2.79 | 2.42 J | 4.35 | 2.16 | 3.22 | 2.43 J | 2.49 |
| | Sodium | N/A | N/A | 23.4 | 22.8 | 48.4 | 26.4 | 64.4 | 27.6 | 27.9 | 28 | 30.6 | 27.4 | 27.5 | 24.8 | 39.7 | 21.4 | 32.3 | 22.2 | 22.8 |
| **Anions** (mg/L) Method 300.0 | Chloride | N/A | 250 (s) | 13.0 | 15.4 | 97.9 | 35.1 | 133 | 12.6 | 11.6 | 13 .0 | 26.0 | 25.1 | 33.3 | 8.4 | 138 J | 20.1 | 13.2 | 20.4 | 7.0 |
| | Nitrate (as N) | $NO_3/NO_2$ 4.0 | 10.0 | 0.086 J | 0.42 J | 3.1 J | 2 J | 1 U | .056 J | 0.39 J | 0.052 J | 1 U | 1 U | 1 U | 1 U | 5.4 J | 1 U | 0.14 J | 0.38 J | 0.15 J |
| | Sulfate | N/A | 250 (s) | 29.6 | 37.2 | 166 | 77.4 | 173 | 22.4 | 32.7 | 28 | 25.3 | 29.8 | 47.8 | 29.4 | 144 J | 30.7 | 30.2 | 28 | 25.6 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | N/A | N/A | 158 | 130 | 94 | 106 | 160 | 158 | 178 | 172 | 206 | 204 | 122 | 118 | 178 | 112 | 262 | 110 | 130 |
| **Field Parameters** | Temperature (degrees C) | | | 18.72 | 18.48 | 18.96 | 19.22 | 32.45 | 25.49 | 18.43 | 28.19 | -- | 26.7 | 28.03 | 18.91 | 18.95 | 23.64 | 28.07 | 18.56 | 18.9 |
| | pH (standard pH units) | | | 7.31 | 7.49 | 7.7 | 7.56 | 6.62 | 7.33 | 7.28 | 7.36 | -- | 7.07 | 7.5 | 7.63 | 6.91 | 7.56 | 6.79 | 7.67 | 7.53 |
| | Conductivity (mS/cm) | | | 0.42 | 0.4 | 0.95 | 0.51 | 30.2 | 0.44 | 0.47 | 0.61 | -- | 1.53 | 3.91 | 0.34 | 1.02 | 0.35 | 2.01 | 0.36 | 0.36 |
| | Dissolved Oxygen (mg/L) | | | 1.63 | 3.62 | 7.22 | 5.19 | 2.78 | 3.06 | 4.34 | 2.04 | -- | 2.03 | 3.09 | 5.16 | 1.69 | 4.14 | 2.09 | 7.22 | 7.11 |
| | Turbidity (NTU) | | | 1.79 | 3.19 | 1.02 | 0.1 | 427 | 43.5 | 1.29 | 63.1 | -- | 63 | 156 | 0.63 | 4.76 | 3.11 | 58.5 | 4.15 | 0.59 |
| | Redox Potential (ORP in mV) | | | -209.8 | 87.9 | 127.7 | 182.8 | 94.1 | -182 | 116.3 | -128 | -- | -215 | -210 | 193.1 | 10.9 | 160.9 | 134 | 142.4 | 148.4 |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Continued, Page 6 of 7)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-10617 | KAFB-10618 | KAFB-10619 | KAFB-10620 | KAFB-10621 | KAFB-10622 | KAFB-10623 | KAFB-10624 | KAFB-10625 | KAFB-10626 | KAFB-10627 | KAFB-10628 | KAFB-3411 | VA Hospital Production | KAFB-03 | KAFB-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/19/10 | 4/20/10 | 4/20/10 | 4/21/10 | 4/22/10 | 4/26/10 | 4/26/10 | 4/27/10 | 4/16/10 | 4/27/10 | 5/5/10 | 6/14/10 | 5/3/10 | 5/6/10 | 5/6/10 | 5/6/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 | Q210 |
| **SVOCs** (µg/L) Method 8270 | Bis(2-ethylhexyl)phthalate | N/A | N/A | 10.5 U | 4.8 J | 10.3 U | 11.1 U | 10.6 U | 6.7 J | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Butyl benzyl phthalate | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | Dibenzofuran | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Diethyl phthalate | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Dimethyl phthalate | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 6.2 J |
| | Di-n-butyl phthalate | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 1.8 J | 1.5 J | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | Di-n-octyl phthalate | N/A | N/A | 21 U | 3.5 J | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | Hexachlorobenzene | N/A | 1.0 | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Hexachlorocyclopentadiene | N/A | 50 | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Hexachloroethane | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Nitrobenzene | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | N-Nitrosodi-n-propylamine | N/A | N/A | 21 U | 21.5 U | 20.6 U | 22.2 U | 21.2 U | 21 U | 20.3 U | 20.2 U | 21.2 U | 21 U | 20.7 U | 1100 U | 20.7 U | 20.4 U | 22 U | 20.8 U |
| | N-Nitrosodiphenylamine | N/A | N/A | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 10.5 U | 10.2 U | 10.1 U | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| | Pentachlorophenol | N/A | 1.0 | 63.2 U | 64.5 U | 61.8 U | 66.7 U | 63.5 U | 63.2 U | 60.9 U | 60.6 U | 63.5 U | 63.2 U | 62.2 U | 3300 U | 62.2 U | 61.2 U | 65.9 U | 62.5 U |
| | Phenol | N/A | 5.0 * | 10.5 U | 10.8 U | 10.3 U | 11.1 U | 10.6 U | 2.3 J | 1.9 J | 3.7 J | 10.6 U | 10.5 U | 10.4 U | 549 U | 10.4 U | 10.2 U | 11 U | 10.4 U |
| **PAHs** (µg/L) Method 8310 | 1-Methylnaphthalene | N/A | 30* [e] | 0.24 J | 19.2 J | 1.1 U | 1 U | 0.068 J | 1 U | 1 U | 0.066 J | 1 U | 0.11 J | 1 U | **122** | 1.1 U | 1 U | 1 U | 1.1 U |
| | 2-Methylnaphthalene | N/A | 30* [e] | 0.2 J | 23.4 | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.11 J | 1 U | **146** | 1.1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthene | N/A | N/A | 1.1 U | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | N/A | N/A | 1.1 U | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.03 J | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | N/A | N/A | 0.33 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.013 J | 0.33 | 0.087 J | 0.062 J | 0.33 U | 0.32 U | 0.014 J | 0.016 J | 0.014 J |
| | Benz(a)anthracene | N/A | N/A | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(a)pyrene | N/A | 0.2 | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(b)fluoranthene | N/A | N/A | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(g,h,i)perylene | N/A | N/A | 0.2 J | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(k)fluoranthene | N/A | N/A | 0.37 | 0.15 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.16 U | 0.16 U | 0.15 U | 0.16 U | 0.16 U |
| | Chrysene | N/A | N/A | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Dibenz(a,h)anthracene | N/A | N/A | 1 | 0.31 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.3 U | 0.33 J | 0.31 U | 0.31 U | 0.33 U | 0.32 U | 0.31 U | 0.32 U | 0.32 U |
| | Fluoranthene | N/A | N/A | 0.44 U | 0.41 U | 0.43 U | 0.42 U | 0.41 U | 0.41 U | 0.41 U | 0.048 J | 0.12 J | 0.1 J | 0.039 J | 0.43 U | 0.42 U | 0.41 U | 0.42 U | 0.43 U |
| | Fluorene | N/A | N/A | 0.025 J | 3.5 | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.3 U | 0.24 J | 0.31 U | 0.31 U | 0.33 U | 0.32 U | 0.31 U | 0.32 U | 0.32 U |
| | Indeno(1,2,3-cd)pyrene | N/A | N/A | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| | Naphthalene | N/A | 30* [e] | 0.22 J | **34.5** | 1.1 U | 1 U | 0.3 J | 1 U | 0.3 J | 1.6 | 1 U | 1 U | 1 U | **174** | 1.1 U | 1 U | 1 U | 1.1 U |
| | Phenanthrene | N/A | N/A | 0.33 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.3 U | 0.046 J | 0.054 J | 0.05 J | 0.33 U | 0.32 U | 0.31 U | 0.32 U | 0.32 U |
| | Pyrene | N/A | N/A | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Calcium | N/A | N/A | 41.3 | 59.9 | 42.8 | 62.4 | 60.1 | 43.9 | 35.2 | 62.1 | 38.9 | 63.1 | -- | 51.8 | 42.6 | 37.1 | 44.7 | 46.1 |
| | Iron | N/A | 0.3 (s) | **0.108** | **0.196** | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.108 U | 0.128 U | 0.1 U | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | 0.015 U | 0.015 U | 0.00547 J | 0.015 U | 0.00394 J | 0.00451 J | 0.00475 J | 0.00447 J | 0.015 U | 0.015 U | -- | 0.015 U | 0.015 U | 0.0052 J | 0.015 U | 0.015 U |
| | Magnesium | N/A | N/A | 6.02 | 9.38 | 6.15 | 9.66 | 8.76 | 6.22 | 4.82 | 10.5 | 5.75 | 9.42 | -- | 7.72 | 6.7 | 7.42 | 5.95 | 5.46 |
| | Manganese | N/A | 0.05 (s) | 0.0056 J | **1.11** | 0.00299 J | 0.0148 U | 0.0425 | **0.11** | 0.00261 J | **1.34** | 0.0105 | **0.484** | -- | **0.574** | 0.0325 | 0.0176 | 0.01 U | 0.00667 J |
| | Potassium | N/A | N/A | 2.32 | 2.94 | 2.41 | 2.93 | 2.9 | 2.8 | 2.32 | 3.32 J | 2.45 | 6.32 | -- | 3.34 | 2.5 | 3.87 | 2.41 | 3.7 |
| | Sodium | N/A | N/A | 23.9 | 28.2 | 24.6 | 27.9 | 28.7 | 25.7 | 27.2 | 29.4 | 25.3 | 37.1 | -- | 27.3 | 24.1 | 23.2 | 24.3 | 29.7 |
| **Anions** (mg/L) Method 300.0 | Chloride | N/A | 250 (s) | 11.3 | 45.1 | 12.2 | 55.4 | 63 | 12.3 | 10 | 35.7 | 12.3 | 66.9 | -- | 13.9 | 11.6 | 30.2 | 26.2 | 53 |
| | Nitrate (as N) | $NO_3/NO_2$ 4.0 | 10.0 | 0.28 J | 0.057 J | 0.084 J | 1 U | 0.35 J | 0.056 J | 0.17 J | 1 U | 0.18 J | 2.2 J | -- | 1 U | 0.22 J | 1 U | 0.57 J | 1 U |
| | Sulfate | N/A | 250 (s) | 34.7 | 49.6 | 35.3 | 53.9 | 48 | 37.2 | 29.4 | 53.5 | 45.8 | 73.6 | -- | 37.2 | 31.2 | 25.3 | 35.8 | 32 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | N/A | N/A | 126 | 150 | 134 | 134 | 114 | 132 | 115 | 150 | 108 | 101 | -- | 162 | 138 | 150 | 114 | 98 |
| **Field Parameters** | Temperature (degrees C) | | | 26.57 | 22.36 | 23.15 | 22.89 | 21.62 | 23.86 | 24.03 | 22.8 | 26.8 | 26.51 | 26.26 | 23.1 | 19.42 | 22.51 | 19.26 | 26.7 |
| | pH (standard pH units) | | | 7.54 | 7.51 | 7.65 | 7.45 | 7.44 | 7.51 | 7.65 | 7.2 | 7.89 | 7.65 | 7.68 | 6.95 | 7.62 | 7.81 | 6.89 | 7.73 |
| | Conductivity (mS/cm) | | | 0.35 | 0.51 | 0.34 | 0.56 | 0.52 | 0.39 | 0.31 | 0.55 | 0.35 | 0.47 | 0.33 | 52.07 | 0.41 | 0.36 | 0.4 | 0.45 |
| | Dissolved Oxygen (mg/L) | | | 2.04 | 0.26 | 5.58 | 1.5 | 2.54 | 1.99 | 5.1 | 2.02 | 7.57 | 5.74 | 5.56 | 3.0 | 2.24 | 3.91 | 9.05 | 5.02 |
| | Turbidity (NTU) | | | 2.86 | 8.13 | 6.03 | 0.77 | 9.62 | 3.93 | 7.1 | 5.22 | 53.1 | 2.4 | 3.4 | 538 | 0.61 | 1.1 | 1.6 | 1.12 |
| | Redox Potential (ORP in mV) | | | 203.2 | -287.4 | 250.7 | 61 | 136.8 | 86.7 | 149.7 | -234 | 182 | 86 | 58 | 165 | 119.2 | 214.2 | 159.9 | 15.6 |

## Table 5-3. Summary of Groundwater Analytical Results, Bulk Fuels Facility Spill (Concluded, Page 7 of 7)

[a] EPA analytical methods listed are for the most recent sampling event.
[b]. NMED HWB Approved Background Concentrations, SNL/Kirtland AFB, Chemical Constituents in Ground Water. Concentrations exceeding background are shown in italics, if applicable.
[c]. EPA National Primary Drinking Water Standards - Maximum Contaminant Levels (MCLs), or if more stringent, New Mexico Water Quality Control Commission (WQCC) Regulations as denoted by "*". Concentrations exceeding standards are **BOLD.**
[d]. Samples analyzed for EDB using Methods 8260 and 504.1. Table includes only Method 504.1 results because this method has a lower quantitation limit.
[e]. The WQCC regulation for PAHs of 30 mg/L is a total of the concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
Shading indicates the analyte was detetected.
J=estimated value, concentration is less than PQL but greater than laboratory method detection limit (MDL).
N/A=not applicable.
U= Analyte was not detected. The associated numerical value is at or below the MDL.

## Table 5-4. Summary of Passive Diffusion Bag and Low Flow Analytical Results, Bulk Fuels Facility Spill (Continued, Page 1 of 4)

| Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10613 | | | | | | Well KAFB-10617 | | | | | | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4/21/10 | 4/21/10 | 4/21/10 | 4/22/10 | 4/22/10 | 4/21/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/20/10 | 4/20/10 | 4/20/10 |
| | | | Q210 PDB501 | Q210 PDB506 | Q210 PDB514 | Q210 LF501 | Q210 LF506 | Q210 LF514 | Q210 PDB493 | Q210 PDB498 | Q210 PDB509 | Q210 LF493 | Q210 LF498 | Q210 LF509 | Q210 PDB486 | Q210 PDB491 | Q210 PDB503 |
| 1,1,1,2-Tetrachloroethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,1,1-Trichloroethane | N/A | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,1,2,2-Tetrachloroethane | N/A | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,1,2-Trichloroethane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.7 J | 5 U |
| 1,1-Dichloroethane | N/A | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,1-Dichloroethene | N/A | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,1-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,2,3-Trichlorobenzene | N/A | N/A | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 6.1 U |
| 1,2,3-Trichloropropane | N/A | N/A | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.6 U |
| 1,2,4-Trichlorobenzene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,2,4-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.2 | 1.5 | 2.3 | 137 | 136 | 167 |
| 1,2-Dibromo-3-chloropropane | N/A | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dibromoethane (EDB) [d] | N/A | 0.05 | 0.02 U | 0.0199 U | 0.0199 U | 0.02 U | 0.0199 U | 0.0199 U | **0.93** | **0.86** | **1.1** | **1.1** | **1.1** | **1.0** | **2.2** | **1.8** | **0.78** |
| 1,2-Dichlorobenzene | N/A | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,2-Dichloroethane (EDC) | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.2 J | 0.16 J | 0.16 J | 0.18 J | 4.9 | 4.9 | **6.2** |
| 1,2-Dichloropropane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,3,5-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.16 J | 0.25 J | 36.1 | 35.8 | 43.6 |
| 1,3-Dichlorobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,3-Dichloropropane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 1,4-Dichlorobenzene | N/A | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 2,2-Dichloropropane | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 25 U |
| 2-Butanone (MEK) | N/A | N/A | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 13 | 14.5 | 61.2 |
| 2-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| 2-Hexanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 25.1 | 5 U | 38.5 |
| 4-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5.1 |
| 4-Isopropyltoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 3.0 | 2.9 | 2.7 J |
| 4-Methyl-2-pentanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 99 | 99.4 | 176 |
| Acetone | N/A | N/A | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 40.6 J | 38.3 J | 69.4 U |
| Benzene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **126** | **127** | **181** |
| Bromobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| Bromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| Bromodichloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| Bromoform | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| Bromomethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U |

## Table 5-4. Summary of PDB and Low Flow Analytical Results, Bulk Fuels Facility Spill (Continued, Page 2 of 4)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10613 | | | | | | Well KAFB-10617 | | | | | | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/21/10 | 4/21/10 | 4/21/10 | 4/22/10 | 4/22/10 | 4/21/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/19/10 | 4/20/10 | 4/20/10 | 4/20/10 |
| | | | | Q210 PDB501 | Q210 PDB506 | Q210 PDB514 | Q210 LF501 | Q210 LF506 | Q210 LF514 | Q210 PDB493 | Q210 PDB498 | Q210 PDB509 | Q210 LF493 | Q210 LF498 | Q210 LF509 | Q210 PDB486 | Q210 PDB491 | Q210 PDB503 |
| **VOCs (µg/L) Method 8260 (except EDB by method 504.1 and DBCP by method 504.1)** | Carbon disulfide | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U |
| | Carbon tetrachloride | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Chlorobenzene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Chloroethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U |
| | Chloroform | N/A | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.78 J | 0.72 J | 1.2 J |
| | Chloromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U |
| | cis-1,2-Dichloroethene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | cis-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Dibromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Dibromomethane | N/A | N/A | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 5.3 U |
| | Dichlorodifluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.55 J | 0.58 J | 0.62 J | 0.53 J | 0.63 J | 0.65 J | 2 U | 2 U | 10 U |
| | Ethylbenzene | N/A | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 97 | 106 | 389 |
| | Hexachlorobutadiene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Isopropylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 | 1.3 | 2.0 | 38.7 | 41.5 | 56.8 |
| | Methyl tert-butyl ether (MTBE) | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.87 J | 0.88 J | 25 U |
| | Methylene chloride | N/A | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 25 U |
| | n-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 4.0 | 3.8 | 3.4 J |
| | n-Propylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.21 J | 21.2 | 23.9 | 43.8 |
| | sec-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.15 J | 0.17 J | 0.24 J | 4.6 | 4.6 | 4.3 J |
| | Styrene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | tert-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Tetrachloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.29 J | 0.27 J | 0.31 J | 0.28 J | 0.29 J | 0.34 J | 1 U | 1 U | 5 U |
| | Toluene | N/A | 750 * | 1 U | 1 U | 1 U | 121 | 170 | 24.7 | 1 U | 1 U | 1 U | 75.6 | 57.7 | 4.7 | 0.71 J | 0.73 J | 2.9 J |
| | trans-1,2-DCE | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | trans-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Trichloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Trichlorofluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.22 J | 0.25 J | 0.22 J | 0.24 J | 0.25 J | 0.24 J | 2 U | 2 U | 10 U |
| | Vinyl chloride | N/A | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| | Xylenes, m-, p- (sum of isomers) | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.38 J | 4.8 | 5.4 | 8.8 | 363 | 384 | 793 |
| | Xylenes, o- (1,2-Dimethylbenzene) | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 89.3 | 93.2 | 215 |
| | Xylenes, Total | N/A | 620 * | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 4.8 | 5.4 | 8.8 | 452 | 477 | **1010** |

## Table 5-4. Summary of PDB and Low Flow Analytical Results, Bulk Fuels Facility Spill (Continued, Page 3 of 4)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10619 | | | Well KAFB-10620 | | | Well KAFB-10621 | | | Well KAFB-10622 | | | Well KAFB-10623 | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/20/10 | 4/20/10 | 4/20/10 | 4/21/10 | 4/21/10 | 4/21/10 | 4/22/10 | 4/22/10 | 4/22/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/13/10 | 4/13/10 | 4/13/10 |
| | | | | Q210 PDB505 | Q210 PDB510 | Q210 PDB518 | Q210 PDB491 | Q210 PDB496 | Q210 PDB507 | Q210 PDB467 | Q210 PDB472 | Q210 PDB482 | Q210 PDB472 | Q210 PDB477 | Q210 PDB487 | Q210 PDB481 | Q210 PDB486 | Q210 PDB497 | Q210 PDB473 | Q210 PDB478 | Q210 PDB486 |
| **VOCs (µg/L) Method 8260 (except EDB by method 504.1 and DBCP by method 504.1)** | 1,1,1,2-Tetrachloroethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | N/A | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | N/A | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | N/A | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | N/A | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | N/A | N/A | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | N/A | N/A | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | N/A | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | N/A | 0.05 | **0.63** | **0.7** | **0.64** | 0.02 U | 0.0199 U | 0.02 U | **0.29** | **0.27** | **0.33** | **1.3** | **1.2** | **1.2** | 0.0199 U | 0.02 U | 0.0198 U | **0.07** | **0.067** | **0.059** |
| | 1,2-Dichlorobenzene | N/A | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.3 J | 0.32 J | 0.32 J | 1 U | 0.24 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | N/A | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2,2-Dichloropropane | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | N/A | N/A | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 4-Chlorotoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | N/A | N/A | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |

## Table 5-4. Summary of PDB and Low Flow Analytical Results, Bulk Fuels Facility Spill (Concluded, Page 4 of 4)

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10619 | | | Well KAFB-10620 | | | Well KAFB-10621 | | | Well KAFB-10622 | | | Well KAFB-10623 | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/20/10 | 4/20/10 | 4/20/10 | 4/21/10 | 4/21/10 | 4/21/10 | 4/22/10 | 4/22/10 | 4/22/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/26/10 | 4/13/10 | 4/13/10 | 4/13/10 |
| | | | | Q210 PDB505 | Q210 PDB510 | Q210 PDB518 | Q210 PDB491 | Q210 PDB496 | Q210 PDB507 | Q210 PDB467 | Q210 PDB472 | Q210 PDB482 | Q210 PDB472 | Q210 PDB477 | Q210 PDB487 | Q210 PDB481 | Q210 PDB486 | Q210 PDB497 | Q210 PDB473 | Q210 PDB478 | Q210 PDB486 |
| **VOCs (µg/L) Method 8260 (except EDB by method 504.1 and DBCP by method 504.1)** | Carbon disulfide | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | N/A | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | N/A | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromochloromethane | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | N/A | N/A | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | N/A | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 2.2 | 2.9 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | N/A | N/A | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | N/A | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | n-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 0.22 J | 0.29 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | N/A | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.3 J | 1 U | 1 U |
| | trans-1,2-DCE | N/A | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | N/A | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | N/A | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | N/A | N/A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | N/A | N/A | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | N/A | 620 * | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |

a. EPA analytical methods listed are for the most recent sampling event.

b. NMED HWB Approved Background Concentrations, SNL/Kirtland AFB, Chemical Constituents in Ground Water. Concentrations exceeding background are shown in italics, if applicable.

c. EPA National Primary Drinking Water Standards - Maximum Contaminant

d. Samples analyzed for EDB using Methods 8260 and 504.1. Table includes only Method 504.1 results because this method has a lower quantitation limit.

Shading indicates the analyte was detetected.

J=estimated value, concentration is less than PQL but greater than laboratory method detection limit (MDL).

N/A=not applicable.

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## 5.2 Groundwater Monitoring Data

The following is a summary of the detections in groundwater during the second quarter of 2010. With the addition of wells KAFB-10626 and KAFB-10627, the northern (downgradient) and southern (upgradient) extents of the dissolved-phase plume at the water table have now been delineated. The dissolved-phase groundwater contamination above respective MCLs is delineated in all directions at the water table. The inferred extent of the PSH and dissolved-phase plume is illustrated on Figure 5-1. The second quarter 2010 data continue to show that the PSH plume is delineated in all directions and generally does not appear to be increasing in thickness or moving laterally.

### 5.2.1 Delineation of the Dissolved-Phase Groundwater Plume

The two contaminants detected most frequently in groundwater samples at concentrations exceeding their respective MCLs are EDB and benzene (owing largely to their relatively low MCLs of 0.05 μg/L and 5 μg/L, respectively). Consequently, the extent of the dissolved-phase groundwater plume is defined by the presence of one or both of these contaminants in most groundwater samples. Figure 5-1 shows the second quarter 2010 extent of both the PSH plume and the dissolved phase plume.

Predictably, groundwater samples collected from wells where PSH is present have EDB and benzene concentrations that greatly exceed their respective MCLs. Contaminant concentrations in these wells are therefore not especially useful in determining the speed or direction of dissolved-phase plume movement. Similarly, samples collected from the numerous wells that are found well outside the location of the PSH plume that have had no detections or inconsistent and low-level detections of EDB and benzene are also not especially useful in determining plume mobility trends. However, data from a number of wells that are found around the periphery of and downgradient from the PSH plume are instructive in determining the behavior over time of the dissolved-phase plume. It is data from these 'periphery' wells that is discussed in detail below and shown in time-series graphs presented in Appendix C. In general, these periphery wells suggest a dissolved-phase plume that is neither growing laterally nor moving in mass in a particular direction. However, EDB concentrations greater than the MCL are found at their greatest distance from the PSH plume to the northeast, in the direction of groundwater flow, due to the age of the release and because EDB is less easily biodegraded relative to benzene.

As shown on Figure 5-1, in the area to the southwest of the PSH plume are periphery wells KAFB-1061, KAFB-10612, and KAFB-10624. Samples from all other wells to the south and west of these wells have had limited to no detections of either EDB or benzene. These three periphery wells are discussed below:

- KAFB-1061 has by far the longest historical record in the area, where sampling began in the fourth quarter of 2000. Concentrations of EDB and benzene have both been highly variable at this location on a seasonal basis in response to summer pumping from nearby production wells. Both EDB and benzene have fluctuated above and below their respective MCLs since 2000, with the greatest fluctuations occurring over the past two years (see graph provided in Appendix C). After both EDB and benzene reached historically high concentrations in the third quarter of 2009, concentrations of both contaminants dropped considerably for the past three quarters, with benzene below the MCL in the past three samples and EDB below the MCL in the fourth quarter of 2009 and just above the MCL in the past two quarters. The wide fluctuations, coupled with the lack of any detections in nearby well KAFB-3411 above the MCLs, suggest the plume is not moving any further to the south or west in this area. It is believed that these fluctuations are affected by seasonal changes in nearby municipal well pumping rates with the extreme reductions in concentration in the winter months believed to be at least partially due to the high natural attenuation potential of the aquifer.

- KAFB-10624, which was installed in August 2009, is located between KAFB-1061 and the PSH plume. The concentrations of EDB and benzene detected in groundwater samples from this well have slightly exceeded their respective MCLs in some samples. There is no consistent trend either

upwards or downwards in the data to date, as shown in the graph provided in Appendix C. The highest concentrations observed in this well are considerably less than those historically observed in KAFB-1061, which is further from the PSH plume, but the data from KAFB-10624 only covers the time period that overlaps with recent, low-concentration data from the previous three quarters collected at KAFB-1061. Therefore, the variability over time that has been evident in the KAFB-1061 data might be expected in future samples collected from KAFB-10624.

- KAFB-10612, located to the north of KAFB-1061, has had no detections of EDB and two relatively high detections of benzene in the past. As shown on the graph provided in Appendix C, benzene concentrations abruptly rose to a high of 166 μg/L in the first quarter of 2009 before falling back to non detections for the last four quarters. This fluctuation may also be attributed to seasonal changes in nearby municipal well pumping rates, which may cause the groundwater plume to essentially oscillate between the natural direction of groundwater flow and the induced flow due to pumping. It is also believed that natural attenuation processes are affecting the concentration at this location.

Referring again to Figure 5-1, to the immediate north of the PSH plume are periphery wells KAFB-10620, KAFB-10618, and KAFB-10617. These wells are all relatively close to the downgradient edge of the PSH plume and are good indicators for movement of the PSH plume itself. These three periphery wells are discussed below. More distant downgradient monitoring wells that define the downgradient limit of the MCL plume are discussed later.

- KAFB-10620, located near the northwest margin of the PSH plume, has had no detections of EDB and low detections of benzene below the MCL in the past. As shown on the graph provided in Appendix C, benzene has been detected in the last seven quarterly sampling events, at a maximum concentration of 1.1 μg/L. There is no upward or downward trend to the data to date, and the dissolved phase plume does not appear to be generally growing or shrinking in this area.

- KAFB-10618, which was installed in the first quarter of 2009, is located directly at the downgradient edge of the PSH plume. The concentrations of EDB and benzene detected in groundwater samples from this well have greatly exceeded their respective MCLs in all samples. EDB was detected in the first quarter of 2009 at a concentration of 206 μg/L, and has since dropped to 4.2 μg/L in the second quarter of 2010. Benzene was detected at a high of 9,980 μg/L in the fourth quarter of 2009, and has since dropped to 848 μg/L in the second quarter of 2010 (see graph provided in Appendix C). Though the data set at this well covers a short time period, the consistent downward trend in concentrations suggests that the main mass of the dissolved-phase plume is not currently advancing in the downgradient direction and may be shrinking presumably due to natural attenuation processes.

- KAFB-10617, which was installed in the first quarter of 2009, is also located near the downgradient edge of the PSH plume, to the east of KAFB-10618. The concentration of EDB detected in groundwater samples from this well has exceeded the MCL in all samples. EDB was detected in the first quarter of 2009 at a concentration of 4.4 μg/L, and has since dropped steadily to 1.4 μg/L in the second quarter of 2010. Benzene was detected in the first quarter of 2009 at a high of 11 μg/L, and has since remained below the MCL. Benzene was not detected in the groundwater sample collected in the second quarter of 2010 (see graph provided in Appendix C). Though the data set at this well covers a short time period, the consistent downward trend in concentrations suggests that the main mass of the dissolved-phase plume is not currently advancing in the downgradient direction and may be shrinking presumably due to natural attenuation processes.

Referring again to Figure 5-1, on the east margin of the PSH plume are periphery wells KAFB-10619 and KAFB-10611. EDB has been detected in the past in groundwater samples from these wells, but benzene has not.

- KAFB-10619, located at the northeast margin of the PSH plume, has had no detections of benzene, but has had regular detections of EDB. As shown on the graph provided in Appendix C, EDB has been detected over the last six quarterly sampling events, at a maximum concentration of 0.86 μg/L. While the data set is limited, there appears to be a regular downward trend to the data, and the dissolved phase plume does not appear to be growing or moving to the east in this area.
- KAFB-10611, located at the eastern margin of the PSH plume, has had no detections of benzene, but has had regular detections of EDB. As shown on the graph provided in Appendix C, EDB was detected in two groundwater samples collected during the fourth quarter of 2008 at concentrations slighter greater than the MCL, at a maximum concentration of 0.072 μg/L. Since that time, the last six quarterly samples have had EDB concentrations that are less than the MCL. While the data set is limited, there appears to be a regular downward trend to the data, and the dissolved phase plume does not appear to be growing or moving to the east in this area.

Referring again to Figure 5-1, extending generally to the northeast of the PSH plume are downgradient plume wells KAFB-10621, KAFB-10622, and KAFB-10625. EDB has been detected in groundwater samples from all three of these wells and benzene has been detected regularly in past in groundwater samples from KAFB-10621 only. Additionally, neither EDB nor benzene has been positively detected in samples collected from KAFB-10615 or KAFB-10626 to the north and east. Only one sample collected from KAFB-10623 to the northeast had detections of EDB and benzene which were well below the MCL.

- KAFB-10621, located approximately 700 feet to the north of the PSH plume, has had regular detections of EDB above the MCL and several detections of benzene below the MCL. As shown on the graph provided in Appendix C, benzene has been detected at a maximum concentration of 4.2 μg/L. EDB has been detected at a maximum concentration of 0.49 μg/L, with a general downward trend within the limited data set. To date, the dissolved phase plume does not appear to be generally growing or moving in this area.
- KAFB-10622, located approximately 1,200 feet to the north-northeast of the PSH plume, has had regular detections of EDB above the MCL and one detection of benzene well below the MCL. As shown on the graph provided in Appendix C, EDB has been detected at a maximum concentration of 0.94 μg/L in the most recent second quarter 2010 groundwater sample, with a slight upward trend over time within the limited data set.
- KAFB-10625, located approximately 1,900 feet to the north of the PSH plume, had two detections of EDB slightly above the MCL in the fourth quarter of 2009 and the first quarter of 2010. As shown on the graph provided in Appendix C, the most recent second quarter 2010 sample had an EDB concentration of 0.027 μg/L, which is below the MCL. There has been one previous detection of benzene well below the MCL. Based on his limited data set, the dissolved phase plume does not appear to be generally growing or moving in this area.

Referring again to Figure 5-1, extending in the southeast direction of the PSH plume is well KAFB-1067. This well has not contained detections of any constituents above applicable MCLs and contains very few positively detected compounds at all.

#### *5.2.1.1 Detections of Inorganic Constituents in Groundwater*

Groundwater samples collected using low-flow pumps or PDBs were not analyzed for inorganic constituents. All other groundwater samples were analyzed for inorganic constituents including metals and common ions. Concentrations of inorganic constituents did not exceed MCLs. The naturally occurring anions nitrate and sulfate were detected in samples from several wells. All detected concentrations of inorganic constituents were below applicable primary or secondary regulatory limits.

#### *5.2.1.2 Correlation of PDB and Low-Flow Sampling*

PDB samples were collected from nine wells during the second quarter of 2010: KAFB-10613, KAFB-10617, KAFB-10618, KAFB-10619, KAFB-10620, KAFB-10621, KAFB-10622, KAFB-10623, and KAFB-10625. Low-flow groundwater samples were collected from KAFB-10613 and KAFB-10617. Both PDB and low-flow samples showed good correlation with the pumped samples from these wells when EDB was present. BTEX constituents were detected at low concentrations in several of the pumped and low-flow groundwater samples. In the corresponding PDB samples, these same BTEX constituents either were not detected or were detected at concentrations lower than the pumped and low-flow samples. This could be either due to an insufficiently long equilibration time or low level exclusion in the PDB bags.

#### *5.2.1.3 Drinking Water Production Wells*

- During the second quarter 2010, production wells KAFB-3, KAFB-16, VA-2 were sampled. KAFB-15 was shut down for repairs and was therefore not sampled. No compounds were detected above drinking water MCLs.
- The sample collected from KAFB-3 contained low, laboratory-estimated concentrations of anthracene, cis-1,2-dichloroethene, and vinyl chloride.
- The sample collected from KAFB-16 contained low, laboratory-estimated concentrations of anthracene and dimethyl phthalate.
- The sample collected from VA-2 contained low, laboratory-estimated concentrations of anthracene.
- Inorganic constituents and common ions were detected in the groundwater samples from all three production wells. Concentrations were below EPA National Secondary Drinking Water Standards. The EPA National Secondary Drinking Water Standards are for aesthetic, taste, and odor purposes and are not promulgated as enforceable regulatory standards. The presence of dissolved iron and manganese can be an indicator of naturally occurring in-situ biodegradation.
- The low level detections of several constituents in some of the production wells during this quarter do not appear to be related to the Bulk Fuels Facility site. The detected constituents are not fuel-related nor are they contaminants of concern widely detected in any wells associated with this site. Kirtland AFB will continue to evaluate any such detections as they may pertain to this site.

### 5.2.2 Groundwater Conditions Summary and Conclusions

#### *5.2.2.1 Conditions Effecting Contaminant Mobility and Chemistry in Groundwater*

This section describes some general processes that affect the mobility and extent of dissolved-phase groundwater contamination at the Bulk Fuels Facility. Figure 5-2 presents the location of four geologic cross-sections within the plume area and Figures 5-3 and 5-4 present the geologic cross-sections. Standard fold-out sizes of Figures 5-3 and 5-4 are provided in the text; plates printed at 1 inch equals 300 feet are provided at the back of the report. The cross-sections are provided to present the known geology for the upper interval of the aquifer that has been penetrated by the existing monitoring well network and the distribution of contaminants within that upper water table portion of the aquifer. The geologic materials within the aquifer directly relate to processes the processes described below.

***Hydraulic Conductivity***

Hydraulic conductivity values for portions of Kirtland AFB are available from studies completed by Sandia National Laboratory (SNL). Based on these investigations, the hydraulic conductivity of the regional water table aquifer was determined to have values ranging from 7 to 10 ft/day (SNL/NM, 2001).

However, these values are generally for areas to the south and east of the Bulk Fuels Facility, so site-specific values are not available. Pumping tests near the facility are planned for the near future.

Hydraulic conductivity values are also available based on the regional groundwater model completed by the USGS (USGS, 2002). Based on the USGS groundwater model, the hydraulic conductivity in the general area near the Bulk Fuels Facility Spill can be expected to vary between approximately 8 and 30 ft/day.

Soil core samples collected from the borehole for KAFB-10628 were analyzed for several parameters, including hydraulic conductivity. Based on the results from these analyses, the hydraulic conductivity for the area within 5 feet above and 5 feet below the water table ranged from approximately 3.5 to 5 ft/day. However, these results are expected to be low-end values and not representative of the aquifer as a whole.

***Regional Pumping***

There are several groundwater production wells in close proximity to the Bulk Fuels Facility Spill as shown on Figure 5-5. The closest water supply well is the VA hospital well, which is approximately 850 feet to the west of the dissolved-phase plume. The closest Kirtland AFB supply wells are KAFB-3, KAFB-15, and KAFB-16, which are approximately 5,400, 2,150, and 2,000 feet away from the dissolved-phase plume, respectively. The closest ABCWUA wells are Burton W-5 and Ridgecrest W-5, which are approximately 3,700 and 5,700 feet, respectively, downgradient from the northern-most extent of where EDB has been detected at the MCL.

Water production rates are available from all of the nearest water supply wells. Based on the average flow rates from 2000 to 2009, the average flow rate for each well is as follows: VA hospital well = 160 gpm, KAFB-3 = 130 gpm, KAFB-15 = 550 gpm, KAFB-16 = 400 gpm, and Burton W-5 and Ridgecrest W-5 are estimated at 1,000 gpm. While these are the average production rates, pumping rates vary by season and by year depending on pumping demands that are influenced by precipitation and drought cycles. In general, summer pumping is usually significantly more than winter pumping. The approximate maximum flow rate from 2000 to 2009 for each well is as follows: VA hospital well = 300 gpm, KAFB-3 = 700 gpm, KAFB-15 = 1,450 gpm, KAFB-16 = 1,400 gpm, and Burton W-5 and Ridgecrest W-5 are estimated at 3,500 gpm.

***Measuring LNAPL Thickness on the Water Table***

Although LNAPL is observed as a discrete lens floating on top of the water in a well, it does not occupy a distinct layer of constant saturation floating on top of the capillary fringe in the surrounding soil and the thickness observed in the well is not equivalent to the free product thickness on the aquifer (Abdul et al., 1989; Lehard and Parker, 1990; Farr et al., 1990; Hillel, 1998; Selker et al., 1999). This is due to the capillary forces at the interface of the capillary fringe and the vadose zone, due to the difference in density between LNAPL and water. Therefore, even in the absence of water table fluctuation, the upper and lower elevations within the LNAPL lens floating in the well are not equal to the upper and lower elevations within which LNAPL is present within the soil adjacent to the well (Hillel, 1998). The apparent LNAPL thickness and the true LNAPL thickness varies depending on grain size distribution of the soil media. Coarse grained soils, such as large gravels, will have an apparent and true thickness that are more similar than for finer grained sediments (Lehard and Parker, 1990; Farr et al., 1990; Hillel, 1998).

It is important to note that for typical soils, the true LNAPL thickness is often found to range from <<1 to 10% of the measured thickness (Farr et al., 1990; Lehard and Parker, 1990; Mercer and Cohen, 1990; Baker and Bierschenk, 1995; Hillel, 1998). Such low ratios of the true thickness to the measured thickness reflect the fact that most of the finer soil pores tend to retain water, not LNAPL (Hillel, 1998). Therefore, relying on apparent thickness measurements can greatly overestimate the calculation of LNAPL volume on the water table.

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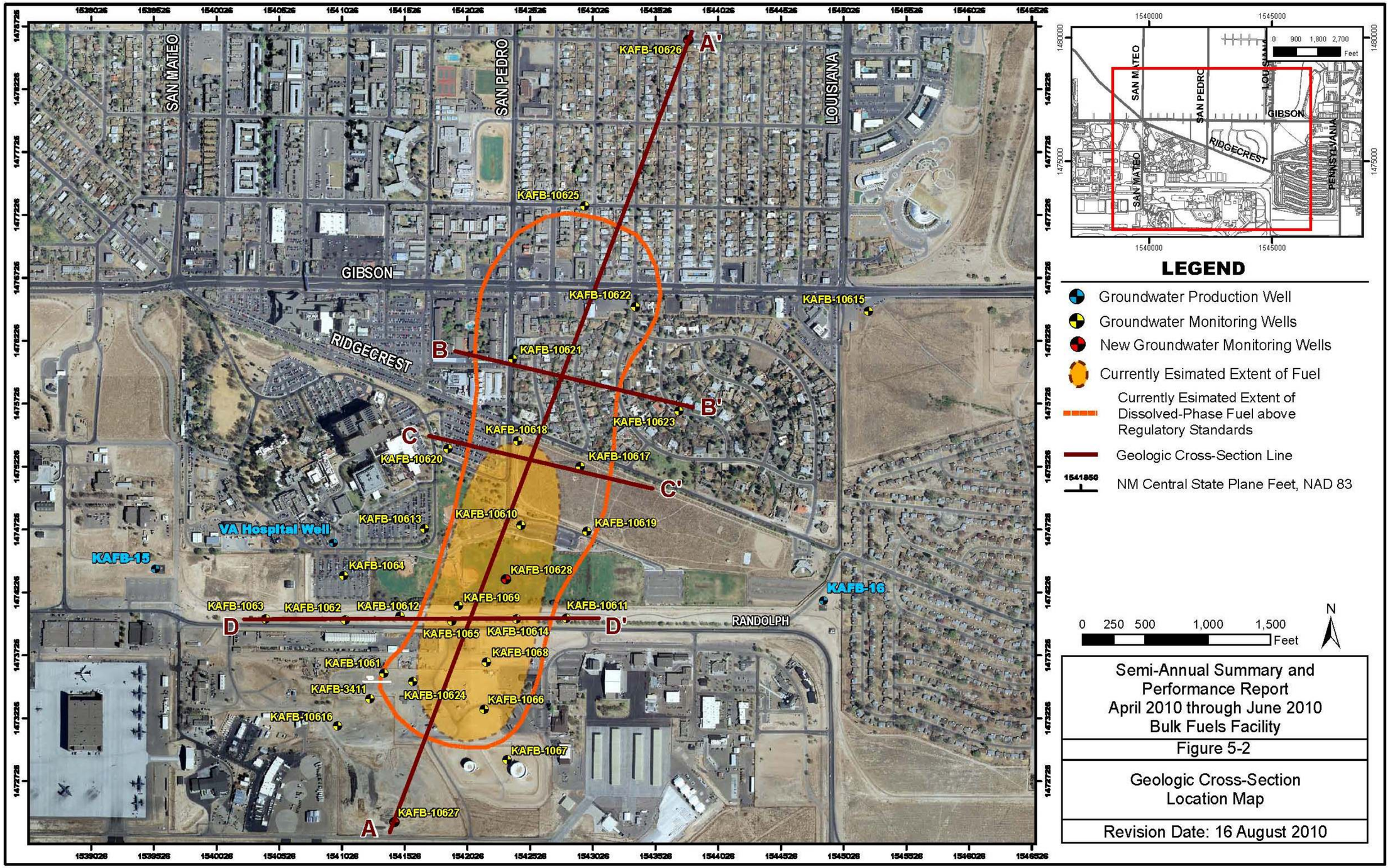
SAN MATEO
SAN PEDRO
LOUISIANA
GIBSON
RIDGECREST
RANDOLPH
A
A'
B
B'
C
C'
D
D'
KAFB-10626
KAFB-10625
KAFB-10622
KAFB-10615
KAFB-10621
KAFB-10623
KAFB-10618
KAFB-10620
KAFB-10617
KAFB-10613
KAFB-10610
KAFB-10619
VA Hospital Well
KAFB-15
KAFB-1064
KAFB-10628
KAFB-16
KAFB-1063
KAFB-1062
KAFB-10612
KAFB-1069
KAFB-10611
KAFB-1065
KAFB-10614
KAFB-1068
KAFB-1061
KAFB-3411
KAFB-10624
KAFB-1066
KAFB-10616
KAFB-1067
KAFB-10627
LEGEND
Groundwater Production Well
Groundwater Monitoring Wells
New Groundwater Monitoring Wells
Currently Esimated Extent of Fuel
Currently Esimated Extent of Dissolved-Phase Fuel above Regulatory Standards
Geologic Cross-Section Line
NM Central State Plane Feet, NAD 83
0 250 500 1,000 1,500 Feet
N
Semi-Annual Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility
Figure 5-2
Geologic Cross-Section Location Map
Revision Date: 16 August 2010

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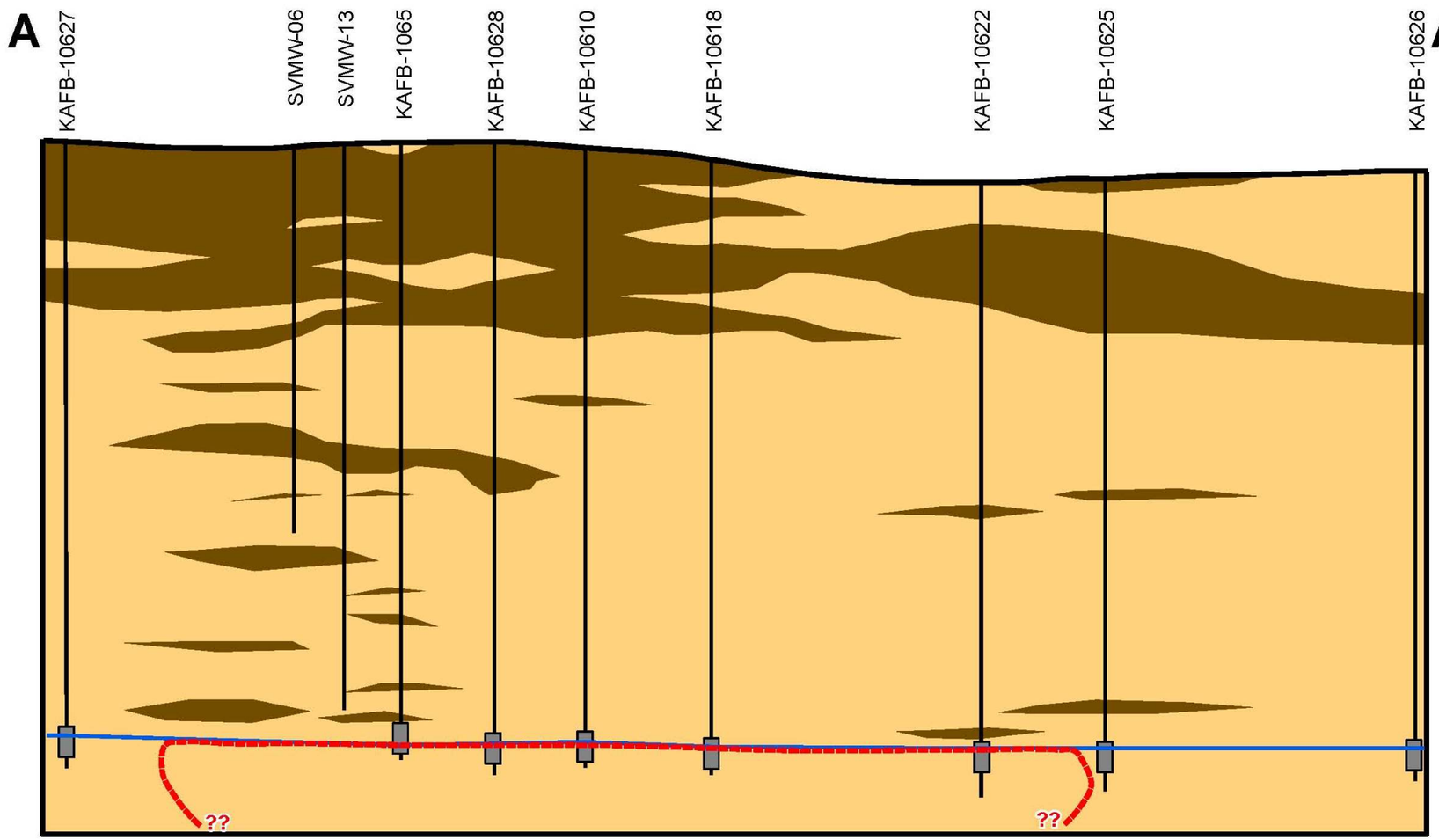


**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Extent of Dissolved-Phase Fuel above the Maximum Contaminant Level
- Well Screen

Horizontal Scale: 0 – 600 – 1200 feet

Vertical Scale: 0 – 100 – 200 feet

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 5-3

Geologic Cross-Section A-A'
Dissolved-Phase Fuel

Revision Date: 15 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from contours shown on Figure 5-2.

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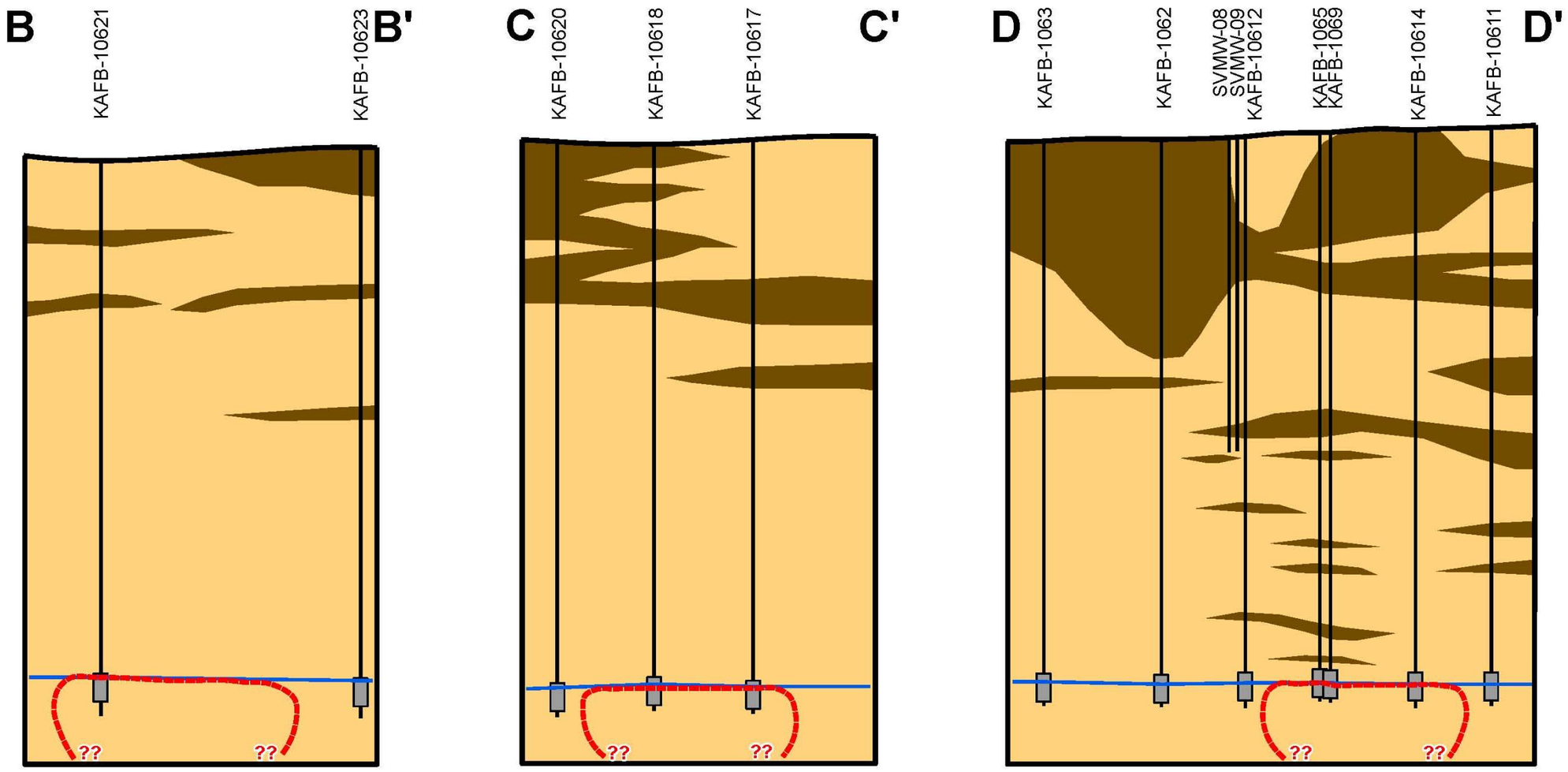
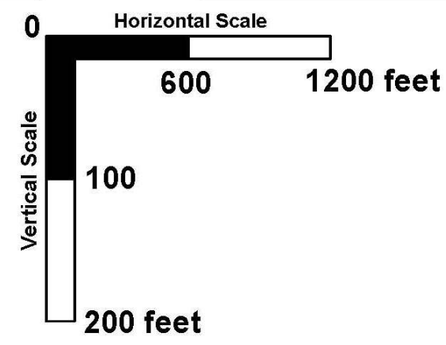



**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Extent of Dissolved-Phase Fuel above the Maximum Contaminant Level
- Well Screen




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 5-4

Geologic Cross-Sections B-B', C-C', D-D'
Dissolved-Phase Fuel

Revision Date: 15 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from contours shown on Figure 5-2.

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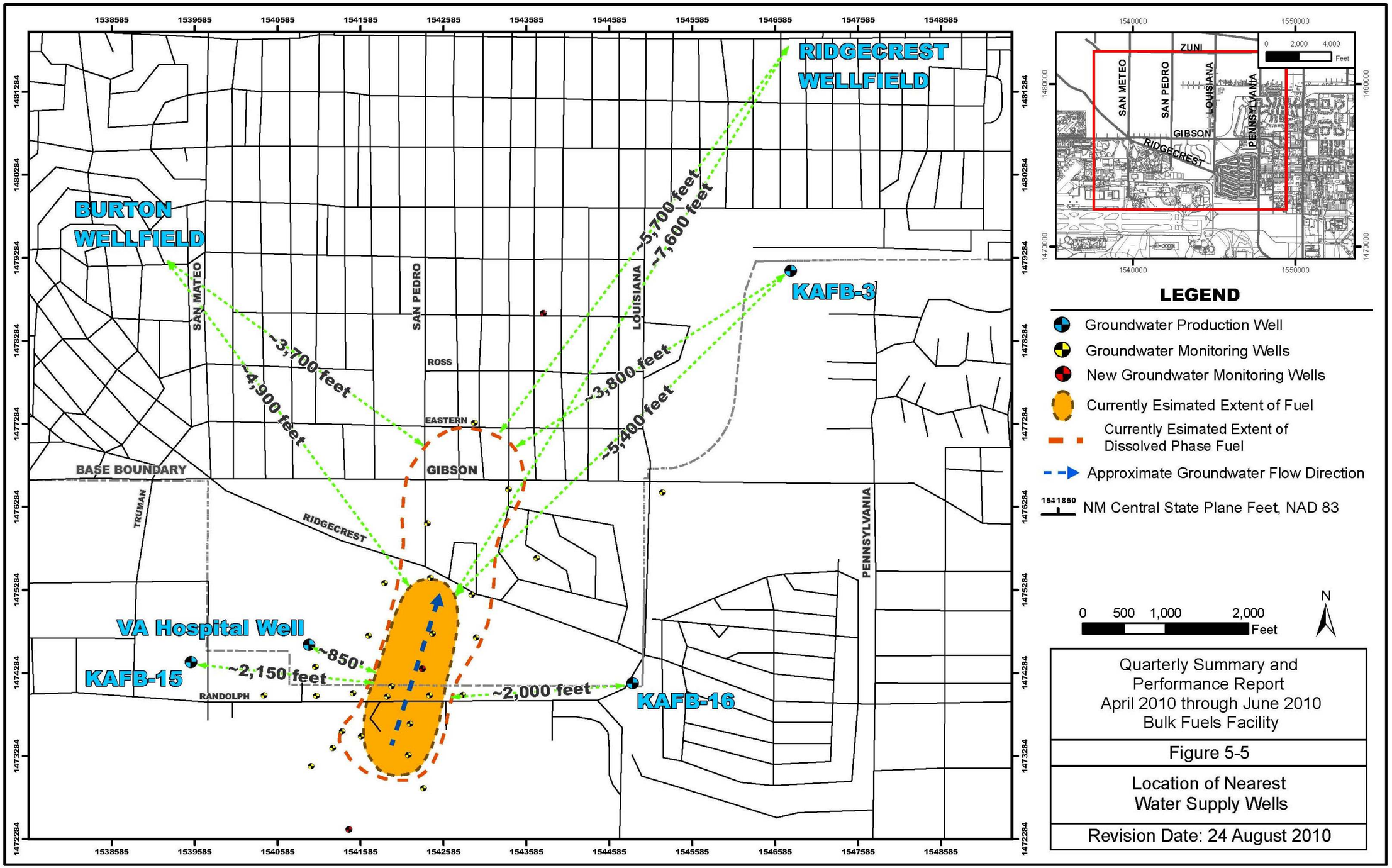
RIDGECREST WELLFIELD
BURTON WELLFIELD
KAFB-3
VA Hospital Well
KAFB-15
KAFB-16
~5,700 feet
~7,600 feet
~3,700 feet
~4,900 feet
~3,800 feet
~5,400 feet
~850'
~2,150 feet
~2,000 feet
SAN MATEO
SAN PEDRO
LOUISIANA
PENNSYLVANIA
ROSS
EASTERN
GIBSON
RIDGECREST
RANDOLPH
TRUMAN
BASE BOUNDARY
ZUNI
LEGEND
Groundwater Production Well
Groundwater Monitoring Wells
New Groundwater Monitoring Wells
Currently Esimated Extent of Fuel
Currently Esimated Extent of Dissolved Phase Fuel
Approximate Groundwater Flow Direction
NM Central State Plane Feet, NAD 83
0 500 1,000 2,000 Feet
N
Quarterly Summary and Performance Report April 2010 through June 2010 Bulk Fuels Facility
Figure 5-5
Location of Nearest Water Supply Wells
Revision Date: 24 August 2010

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### 5.2.3 Conclusions from the Quarterly Sampling Event

The PSH plume and the dissolved-phase plume are now completely bound in extent at the water table surface by the existing well network. Data from the new wells installed upgradient and downgradient of the PSH plume during this reporting period (KAFB-10626 and KAFB-10627) have bound the dissolved-phase plume in those directions. New well KAFB-10628 in the center of the PSH plume provides additional data for PSH thickness in this area. The measured groundwater elevations from the second quarter of 2010 continue to indicate that the groundwater flow direction beneath the Bulk Fuels Facility Spill site is to the north-northeast. During this reporting period, the concentrations of detected compounds in groundwater samples are consistent with previous quarters' sampling data and do not indicate any significant movement or expansion of either the PSH plume or the dissolved-phase plume.

#### *5.2.3.1 LNAPL Extent and Trends*

During the reporting period, the thickness of PSH in the wells ranged from a sheen to approximately 3.8 feet at locations where active SVE is ongoing. PSH is present on the water table surface at a total of seven well locations (KAFB-1065, KAFB-1066, KAFB-1068, KAFB-1069, KAFB-10610, KAFB-10614, and KAFB-10628), and the sheen of product observed during the installation of KAFB-10618 continues to not be measurable (i.e., less than 0.01-ft) during the second quarter 2010. Product thickness trends are presented in Appendix C. The trends for wells KAFB-1065, -1066, and -1068 are biased high by the influence of suction from the SVE systems, which causes the LNAPL and water level to mound near these wells. The overall trend of the monitoring wells not connected to SVE systems is variable. The trend for well KAFB-10618, which is the furthest downgradient well with free-product, has gone from originally having a thin film, to now not having measurable product. The trend for well KAFB-10610, which is in the northern portion of Bullhead Park, has decreased. Wells KAFB-1069 and -10614, which are both on-Base near the Base boundary, have shown seasonally variable trends. Product thickness has been greatest in the summer and less in the winter month. These trends correlate to decreased water elevations in the summer, which increases the LNAPL exposed above the water table, and increased water elevations in the winter, which acts to submerge some of the LNAPL and reduces the measurable product thickness.

#### *5.2.3.2 Dissolved Phase Plume Extent*

As shown in Figure 5-1, EDB concentrations above the MCL have migrated the furthest distance downgradient, to well KAFB-10625, which is approximately 4,100 feet from the Former Fuel Offloading Rack. Benzene at concentrations above the MCL is also present immediately downgradient of the LNAPL plume. Benzene is expected to be present above the MCL in the area generally south of well KAFB-10621 which is approximately 2,800 feet from the Former Fuel Offloading Rack. Toluene, ethylbenzene, and xylenes have not been detected above their respective MCLs in wells outside of the LNAPL plume.

As presented in the graphs within Appendix C, the general trend of the dissolved-phase groundwater plume has been a general decrease in concentrations each of the previous four consecutive quarters. The general trend observed at individual wells with longer historical records, such as well KAFB-1061, indicates a strong bias towards increasing concentrations in the summer months and decreased concentrations in the winter months. Based on the historical data, it is expected that this general seasonal trend will be observed at other wells in close proximity to the LNAPL plume, but the timing of the high concentration periods may be variable depending on individual well locations relative to the LNAPL plume.

Currently the best explanation for this phenomenon is that lateral gradients caused by nearby extraction wells during the summer pumping season induce higher concentrations to migrate laterally away from the LNAPL plume. In the winter months concentrations generally decrease in response to decreased pumping gradients and also due to biodegradation as discussed in Section 5.2.2.1. The influence of this phenomenon appears to be muted downgradient of the LNAPL plume and the general concentration fluctuations in the downgradient portion of the plume appear to be relatively minimal compared to the core of the plume. In conclusion, the general trend for the extent of dissolved phase contamination is lateral spreading to the east and west of the LNAPL plume in the summer months and concentration reduction of the east and west portions of the plume near the LNAPL body and a general decrease in downgradient concentrations.

# 6 RECOMMENDATIONS

Additional site investigation activities to further delineate the dissolved-phase impacts to the groundwater were conducted during this reporting period under the NMED-approved *Stage 2 Abatement Plan Modification*,(USAF, 2007) the subsequent November 2009 addendum to that plan (USAF,2009a), and as directed by the NMED-HWB's April 2, 2010 letter to Kirtland AFB (NMED, 2010b). The installation of three new groundwater monitoring wells was completed in April and May 2010. The installation of wells KAFB-10626 and KAFB-10627 support the continuing investigation to delineate the nature and extent of dissolved-phase groundwater impacts that extend out from the PSH body. Groundwater samples collected from these wells bound the downgradient and upgradient extent of the contaminant plume at the water table as defined by MCLs. The installation of well KAFB-10628 serves to better quantify the thickness of PSH in the central portion of the PSH body, as well as to quantify dissolved phase contaminant concentrations in groundwater below the PSH body. Four soil vapor monitoring points were also installed in the borehole used for KAFB-10628.

Based on data collected and observations made during this reporting period, the following recommendations for continuing investigation and remedial actions at the site are made:

- Continue operation of the Stage 2 Abatement Plan SVE and treatment system at the ST-106, Former Fuel Offloading Rack portion of the site. The operation of the ST-106 Stage 2 Abatement action at the site follows a performance-based approach. Therefore, continuing data collection and evaluation, and system performance will lead to additional recommendations to direct operational modifications and optimization approaches with time.

- Refine and optimize the combined operational approach for the SS-111 interim remedial action SVE and treatment systems. Operation of the four onsite SVE systems recovered over 19,316 equivalent gallons of fuel during the reporting period and greater than 400,000 gallons of fuel to date, which continues to be a fairly high mass-recovery rate. However the current configuration of the SS-111 SVE systems is resulting in interference between the systems. As with the operation of the ST-106 Stage 2 Abatement action, the interim remedial actions to address PSH on the water table follow a performance-based approach. Continuing data collection and evaluation will lead to additional recommendations to direct operation in the future and consideration should be given for ways to optimize the configuration and expansion of the existing SVE systems. Operation of the SS-111 interim SVE systems may be modified or superseded by remediation activities that may be put forth in response to the NMED-HWB's April 2, 2010 letter.

- Ongoing monitoring of the vadose zone should continue in order to assess the nature and extent of the subsurface vapor plume and its recovery over time. With the operation of four SVE systems, the subsurface vapor regime is expected to continue to change and data should continue to be evaluated to assess how the changed dynamics impact the overall vapor plume. Vadose zone monitoring activities may be modified or superseded by activities that may be put forth in response to the NMED-HWB's April 2, 2010 letter.

- Further understanding of the vertical extent of groundwater impacts below the PSH should be evaluated, as possible, within the body of PSH plume. Specific details regarding additional groundwater investigation and monitoring well installation activities will be directed by work planning documents being prepared in response to the NMED-HWB's April 2, 2010 letter.

- Groundwater sampling for all site groundwater monitoring wells, the VA Medical Center well, and Kirtland AFB production wells KAFB-3, KAFB-15, and KAFB-16 should continue. Additionally, ongoing water level measurements and PSH thickness measurements will be collected on a quarterly basis. Kirtland AFB feels that it may be useful to continue the passive diffusion bag sampling that occurred in the first and second quarters of 2010. Such sampling would continue to develop a database regarding vertical contaminant distributions and to allow evaluation of PDBs as an alternate technique to sample for EDB and other fuel related compounds in the groundwater. Additional evaluation of vertical distribution of contaminants in the aquifer within individual well screens will assist in understanding not only the vertical extent of contamination but provide useful data for targeting installation depths for deeper monitoring well screen intervals. Kirtland AFB will seek further direction from the NMED-HWB prior to moving forward with a continuing PDB sampling program in order to make sure the NMED-HWB feels the program is useful and that any required elements of the program are addressed as needed.
- The general recommendations and actions discussed in the bullets above are subject to being modified or superseded by investigation and remediation action put forth in the work planning documents being prepared in response to the NMED-HWB's April 2, 2010 letter.

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# APPENDIX A

## Summary of SVE System Operation, Maintenance, Repair, and Hydrocarbon Recovery Calculations

# SVE AND TREATMENT SYSTEM OPERATION

The operation of the SVE and treatment systems is considered on the basis of hours of operation in the reporting period on an engine by engine basis and also on the number of days in the reporting period at least one system engine was actively extracting vapors from the subsurface. The tables below provide the operational hours for each engine and total days of operation per SVE unit.

**Table A-1. SVE Operations Summary, April 2010 through June 2010, Bulk Fuels Facility, (Continued, Page 1 of 2)**

| Operational Period | Hours in Period | Former Fuel Offloading Rack SVE System | | | |
|---|---|---|---|---|---|
| | | Operational Hours | Percent Operational | Operational Hours | Percent Operational |
| | | Engine 1 | | Engine 2 | |
| April | 720.0 | 560.8 | 77.9% | 366.8 | 50.9% |
| May | 744.0 | 503.3 | 67.6% | 517.5 | 69.6% |
| June | 720.0 | 633.5 | 88.0% | 642.0 | 89.2% |
| Apr-June 2010 total | 2184.0 | 1697.6 | 77.7% | 1526.3 | 69.9% |

| | Former Fuel Offloading Rack SVE System | | |
|---|---|---|---|
| Operational Period | Total Days in Period | Days of Active Operation (at least one engine running) | Percent Operational |
| Apr-June 2010 | 91 | 77 | 84.6% |

| Operational Period | Hours in Period | KAFB-1065 SVE System | | | |
|---|---|---|---|---|---|
| | | Operational Hours | Percent Operational | Operational Hours | Percent Operational |
| | | Engine 1 | | Engine 2 | |
| April | 720.0 | 131.6 | 18.3% | 86.7 | 12.0% |
| May | 744.0 | 311.1 | 41.8% | 427.8 | 57.5% |
| June | 720.0 | 102.3 | 14.2% | 666.7 | 92.6% |
| Apr-June 2010 total | 2184.0 | 545.0 | 25.0% | 1181.2 | 54.1% |

| | KAFB-1065 SVE System | | |
|---|---|---|---|
| Operational Period | Total Days in Period | Days of Active Operation (at least one engine running) | Percent Operational |
| Apr-June 2010 | 91 | 59 | 64.8% |

## Table A-1. SVE Operations Summary, April 2010 through June 2010, Bulk Fuels Facility, (Continued, Page 2 of 2)

| Operational Period | Hours in Period | KAFB-1066 SVE System | | | |
|---|---|---|---|---|---|
| | | Operational Hours | Percent Operational | Operational Hours | Percent Operational |
| | | Engine 1 | | Engine 2 | |
| **April** | 720.0 | 0.0 | 0.0% | 0.0 | 0.0% |
| **May** | 744.0 | 0.0 | 0.0% | 0.0 | 0.0% |
| **June** | 720.0 | 130.4 | 18.1% | 130.2 | 18.1% |
| **Apr-June 2010 total** | 2184.0 | 130.4 | 6.0% | 130.2 | 6.0% |

| | KAFB-1066 SVE System | | |
|---|---|---|---|
| **Operational Period** | **Total Days in Period** | **Days of Active Operation (at least one engine running)** | **Percent Operational** |
| **Apr-June 2010** | 91 | 5 | 5.5% |

| Operational Period | Hours in Period | KAFB-1068 SVE System | | | |
|---|---|---|---|---|---|
| | | Operational Hours | Percent Operational | Operational Hours | Percent Operational |
| | | Engine 1 | | Engine 2 | |
| **April** | 720.0 | 446.3 | 62.0% | 499.6 | 69.4% |
| **May** | 744.0 | 727.2 | 97.7% | 641.2 | 86.2% |
| **June** | 720.0 | 704.6 | 97.9% | 681.8 | 94.7% |
| **Apr-June 2010 total** | 2184.0 | 1878.1 | 86.0% | 1822.6 | 83.5% |

| | KAFB-1068 SVE System | | |
|---|---|---|---|
| Operational Period | Total Days in Period | Days of Active Operation | Percent Operational |
| **Apr-June 2010** | 91 | 79 | 86.8% |

# SVE AND TREATMENT SYSTEM MAINTENANCE AND REPAIR SUMMARY

The primary maintenance interval for the SVE and treatment systems is every 360 hours (approximately 2 weeks), as recommended by the system manufacturer. Routine biweekly maintenance includes changing the oil, oil filter, and spark plugs; checking the coolant level and adding coolant as needed; cleaning the air filter; and checking all belts hoses and connections. Additionally, changing the air filter and fan belt are also considered routine maintenance although these activities are only performed on a monthly basis. The propane tank for each SVE system is also routinely filled weekly to maintain sufficient quantities of supplemental fuel at all times for optimal system operation and as needed for restart conditions.

In addition to biweekly or monthly maintenance activities, there are other tasks which are still considered planned maintenance activities although they are required on a less frequent basis. Such tasks may be performed during any reporting period and include things such as other fluid changes or battery, carburetor, spark plug wire replacements.

During this reporting period, in addition to the standard biweekly and monthly planned maintenance activities, the following maintenance or repairs were performed for the various SVE and treatment systems that are operating at the Bulk Fuels Facility.

For the ST-106, Former Fuel Offloading Rack SVE and treatment system associated with the Stage 2 Abatement action the following maintenance and repair activities were conducted:

- Replaced E2 spark plug wires.
- Replaced E2 distributor cap and rotor.
- Replaced E2 ignition coil and ignition module.
- Removed E1 and E2 excess carbon deposits.
- Cleaned E1 and E2 carburetors.
- Replaced E1 coolant reservoir.
- Replaced E1 and E2 intake air hoses.
- Replaced E1 and E2 engine assembly.
- Replaced E1 and E2 catalytic converters.
- Replaced E1 and E2 catalytic converter sample hoses.
- Replaced E1 and E2 oxygen sensors.
- Replaced E1 and E2 catalytic converter temperature probes.
- Replaced E1 and E2 radiators and coolant.
- Replaced E1 and E2 exhaust manifold gaskets.

For the KAFB-1065 SVE and treatment system operating as an interim remedial action for SS-111, following maintenance and repair activities were conducted:

- Replaced E1 and E2 catalytic converters.
- Replaced E1 and E2 catalytic converter sample hoses.
- Replaced E1 and E2 oxygen sensors.
- Replaced E1 and E2 catalytic converter temperature probes.
- Replaced E1 and E2 oil breather caps.
- Replaced E1 and E2 exhaust manifold gaskets.
- Replaced E1 and E2 well gas filters.
- Replaced E1 and E2 valve cover gaskets.
- Removed E1 and E2 excess carbon deposits.
- Cleaned E1 and E2 carburetors.
- Replaced E2 water pump.
- Replaced E2 alternator
- Replaced E2 controller.

For the KAFB-1066 SVE and treatment system operating as an interim remedial action for SS-111, following maintenance and repair activities were conducted:

- Repair of E1 and E2 at off-base repair shop.
- Replaced E1 and E2 catalytic converter sample hoses.
- Replaced E1 and E2 alternators.
- Replaced E1 and E2 batteries.
- Replaced E1 and E2 oil breather caps.
- Replaced E1 and E2 exhaust manifold gaskets.
- Replaced E1 and E2 well gas filters.
- Replaced E1 and E2 valve cover gaskets.
- Replaced E1 and E2 carburetors.
- Adjusted E1 and E2 timing.

For the KAFB-1068 SVE and treatment system operating as an interim remedial action for SS-111, following maintenance and repair activities were conducted:

- Replaced E1 and E2 catalytic converters.
- Replaced E1 and E2 catalytic converter sample hoses.
- Replaced E1 and E2 oxygen sensors.
- Replaced E1 and E2 catalytic converter temperature probes.
- Replaced E1 and E2 oil breather caps.
- Replaced E1 and E2 exhaust manifold gaskets.
- Replaced E1 and E2 well gas filters.
- Replaced E1 and E2 valve cover gaskets.
- Removed E1 and E2 excess carbon deposits.
- Cleaned E1 and E2 carburetors.
- Repaired E1 and E2 fuel flow meters.

The SVE systems' maintenance, downtime, and upset condition information is summarized in tabular format as Table A-2.

**Table A-2. Quarterly SVE System Maintenance and Down Time Summary, April 2010 through June 2010, Bulk Fuels Facility (Continued, Page 1 of 2)**

| Month | Fuel Rack SVE System Maintenance and System Down Time |
|---|---|
| **April 2010** | 4/1 system not operational to establish sub-surface equilibrium<br>4/7 E2 coil to distributor cap wire replaced; performed engine de-carbonization, performed compression test on E1; system returned to operation<br>4/12 routine maintenance; spark plug wires, distributor cap and rotor replaced on E2<br>4/29 replaced E2 ignition coil and ignition module |
| **May 2010** | 5/3 cleaned E2 carburetor<br>5/6 routine maintenance<br>5/20 routine maintenance<br>5/25 replaced E1 coolant reservoir, replaced E1 and E2 intake air hose |
| **June 2010** | 6/1 replaced E1 and E2 engines assemblies; catalytic converters, catalytic convertor sample hoses, radiators, and exhaust manifold gaskets replaced<br>6/16 routine maintenance |

**Table A-2. Quarterly SVE System Maintenance and Down Time Summary, April 2010 through June 2010, Bulk Fuels Facility (Concluded, Page 2 of 2)**

| Month | 1065 SVE System Maintenance and Down Time |
|---|---|
| **April 2010** | 4/1 system not operational to establish sub-surface equilibrium<br>4/12 routine maintenance; catalytic converters, catalytic converter sample hoses, temperature probes, oxygen sensors, exhaust manifold gaskets, valve cover gaskets, oil breather caps, and well gas filters replaced; performed engine decarbonization; system returned to operation |
| **May 2010** | 5/3 replaced E2 water pump,<br>5/6 routine maintenance<br>5/7 replaced E2 alternator<br>5/12 replaced E2 controller; cleaned E1 carburetor<br>5/27 routine maintenance on E2 |
| **June 2010** | 6/10 routine maintenance<br>6/24 routine maintenance on E2, cleaned E2 carburetor<br>6/25 installed new controller on E2 |
| | |
| **Month** | **1066 SVE System Maintenance and System Down Time** |
| **April 2010** | System not operational |
| **May 2010** | System not operational<br>5/18 prepare system for transport to off base repair shop |
| **June 2010** | 6/14 system transported off base to repair shop<br>6/25 system returned to KAFB from repair shop; catalytic converter sample hoses, alternators, batteries, and carburetors replaced; controller lent to the KAFB-1065 SVE System reinstalled; checked and adjusted timing; restarted both engines |
| | |
| **Month** | **1068 SVE System Maintenance and System Down Time** |
| **April 2010** | 4/1 system not operational to establish sub-surface equilibrium<br>4/13 routine maintenance; catalytic converters, catalytic converter sample hoses, temperature probes, oxygen sensors, exhaust manifold gaskets, valve cover gaskets, oil breather caps, and well gas filters replaced; performed engine decarbonization; system returned to operation |
| **May 2010** | 5/5 repaired fuel flow meters<br>5/6 routine maintenance<br>5/20 routine maintenance, cleaned E2 carburetor |
| **June 2010** | 6/10 routine maintenance<br>6/24 routine maintenance, cleaned carburetors |

## SVE and Treatment System Hydrocarbon Recovery Calculations

As part of the ongoing Stage 2 Abatement action for ST-106 and the interim remedial actions for SS-111 vapor samples from the SVE and treatment systems' inlets and exhausts are regularly analyzed onsite using a Horiba Mexa 554J emissions analyzer for petroleum hydrocarbon concentration in parts per million by volume (ppmv) and for percent oxygen ($O_2$), carbon monoxide (CO), and carbon dioxide ($CO_2$). The hydrocarbon concentrations from the SVE system influent as measured in the field with the Horiba instrument are used in the hydrocarbon recovery calculations. The paragraphs below describe the basic equations and constants that are used, along with the Horiba field measurements, to calculate total hydrocarbon recovery volumes.

For the SVE and treatment system associated with the Stage 2 Abatement action at ST-106 the Horiba-measured influent hydrocarbon vapor concentration is used along with the molecular weight of the influent vapor stream, the gas constant, and the standard temperature to calculate the vapor concentration (C) in kilogram per cubic meter (kg/m$^3$). The vapor stream concentrations are measured by the Horiba instrument in ppmv, which can be converted to kilogram per cubic meter (kg/m$^3$) for use in the following equation:

$$C = \frac{(conc)(MW)}{RT}$$

where:

*conc* = vapor concentration (Horiba ppmv reading x $10^{-6}$)
*MW* = molecular weight of the vapor (98)
*R* = gas constant (0.0821) (L·atm/mol·K)
*T* = temperature (Kelvin [K]) (290)

The measured well gas inlet flow rate (m$^3$/hr) and hours of operation are then used to calculate recovered mass. Mass removal is estimated using the following conversion:

$$M = CQT$$

where:

*M* = cumulative mass removed (kilogram [kg])
*C* = vapor concentration (kilogram per cubic meter [kg/m$^3$])
*Q* = extraction flow rate (cubic meter per hour [m$^3$/hr])
*T* = operational period (hour)

The recovered mass is then converted to equivalent gallons. The hydrocarbon recovery is calculated for each engine, and cumulatively summed over the operational period.

As an example, the mass (kilograms [kg]) of recovered hydrocarbons for engine E1 during a given period can be calculated using the measured influent vapor concentration from a measurement date in that period (such as 32,400 ppmv), the well-gas inlet flow rate (such as 74.8 cubic meters per hour [m$^3$/hr]), the engine E1 operational hours during the period (539.9 hours), and the constants defined above as follows:

$$C = \frac{\left(32{,}400 \times 10^{-6}\right) \times 98}{0.0821 \times 290} = 0.075 \text{ kg/m}^3$$

$$M = (0.075)\ (74.9)\ (539.9) = 3{,}058 \text{ kg}$$

The gallons of equivalent hydrocarbon recovery are calculated using a mass to volume conversion of 6 pounds per gallon of HC product and a conversion factor of 1 kg equals 2.205 pounds:

$$\text{Volume (gallons)} = (3{,}058\ \text{kg}) \times \frac{2.205\ \text{pounds}}{1\ \text{kg}} \times \frac{1\ \text{gallon}}{6\ \text{pounds}} = 1{,}124\ \text{gallons}$$

The SVE and treatment systems at wells KAFB-1065, KAFB-1066, and KAFB-1068 have on-board telemetry that allows remote downloads of the SVE system data. The data that can be downloaded include the systems' running calculation of hydrocarbon recovery volumes that are made using the same basic equations outlined above. The downloaded recovery amounts of reported for these systems.

## SVE and Treatment System Destruction Removal Efficiency

The analytical data from the SVE system influent and exhaust streams provide information on the nature of subsurface vapor compounds and are an indicator of system performance as it relates to destruction efficiency. The destructive removal efficiency (DRE) is calculated as follows:

$$Destruction\ \ Efficiency = \left( \frac{C_{inlet} - C_{outlet}}{C_{inlet}} \times 100 \right)$$

where:

$C_{outlet}$ is the TPH concentration of the exhaust.
$C_{inlet}$ is the TPH concentration of the SVE and treatment system inlet.

The DRE calculations can be made using the laboratory-measured combined vapor inlet and average exhaust TPH concentrations and the Horiba field sampling results for the SVE influent vapor stream and the average post-catalytic converter exhaust stream. Specific calculations for the laboratory-measured samples are provided in the text of Section 2. The calculated DREs based on the Horiba field measurements are presented in the text of Section 2 although each calculation is not shown within the text. The Horiba measurements used for the DRE calculations are presented below in Table A-3.

**Table A-3. SVE System Inlet and Exhaust Field Measurements, Second Quarter 2010, Bulk Fuels Facility (Continued, Page 1 of 2)**

| Well Location | Sample Date | Pressure (in H2O) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|
| ST106 Vapor Treatment Influent | 5/14/2010 | < -30 | 0.00 | 1.74 | 17.53 | 10,512 |
| ST-106 E1 Pre Cat A | 5/14/2010 | 12.0 | 0.15 | 2.52 | 17.00 | 220 |
| ST-106 E1 Pre Cat B | 5/14/20I think10 | 15.0 | 0.70 | 10.00 | 4.32 | 688 |
| ST-106 E2 Pre Cat A | 5/14/2010 | > 30 | 0.42 | 7.14 | 9.68 | 365 |
| ST-106 E2 Pre Cat B | 5/14/2010 | > 30 | 0.35 | 6.40 | 11.08 | 342 |
| ST-106 E1 Post Cat | 5/14/2010 | 1.2 | 0.04 | 0.48 | 16.60 | 76 |
| ST-106 E2 Post Cat | 5/14/2010 | 1.0 | 0.05 | 4.20 | 14.20 | 84 |
| ST106 Vapor Treatment Influent | 6/29/2010 | < -30 | 0.02 | 3.04 | 16.13 | 16,065 |
| ST106 E1 Pre Cat A | 6/29/2010 | 16 | 0.54 | 11.86 | 1.60 | 395 |
| ST106 E1 Pre Cat B | 6/29/2010 | 15 | 0.53 | 11.70 | 1.99 | 467 |
| ST106 E2 Pre Cat A | 6/29/2010 | 15 | 0.57 | 11.92 | 1.63 | 376 |
| ST106 E2 Pre Cat B | 6/29/2010 | 15 | 0.56 | 11.92 | 1.59 | 323 |
| ST106 E1 Post Cat | 6/29/2010 | 3 | 0.00 | 5.48 | 12.09 | 4 |
| ST106 E2 Post Cat | 6/29/2010 | 3 | 0.00 | 7.10 | 10.27 | 7 |
| | | | | | | |
| KAFB-1065 Vapor Treatment Influent | 5/14/2010 | > -30 | 0.01 | 0.36 | 20.32 | 12,834 |
| SVE-1065 E1 Pre Cat A | 5/14/2010 | 6.0 | 0.26 | 7.98 | 8.56 | 172 |
| SVE-1065 E1 Pre Cat B | 5/14/2010 | 4.0 | 0.29 | 7.58 | 9.08 | 678 |
| SVE-1065 E2 Pre Cat A | 5/14/2010 | 7.0 | 0.25 | 7.62 | 11.36 | 119 |
| SVE-1065 E2 Pre Cat B | 5/14/2010 | 5.5 | 0.24 | 7.52 | 10.17 | 63 |
| SVE-1065 E1 Post Cat | 5/14/2010 | 1.3 | 0.28 | 7.60 | 9.20 | 402 |
| SVE-1065 E2 Post Cat | 5/14/2010 | 0.32 | 0.24 | 7.16 | 10.34 | 75 |
| KAFB-1065 Vapor Treatment Influent | 6/29/2010 | < -30 | 0.00 | 0.52 | 20.27 | 11,115 |
| SVE-1065 E1 Pre Cat A | 6/29/2010 | Engine not operating | | | | |
| SVE-1065 E1 Pre Cat B | 6/29/2010 | | | | | |
| SVE-1065 E2 Pre Cat A | 6/29/2010 | 9.0 | 0.63 | 11.18 | 2.45 | 539 |
| SVE-1065 E2 Pre Cat B | 6/29/2010 | 9.0 | 0.63 | 10.54 | 3.56 | 780 |
| SVE-1065 E1 Post Cat | 6/29/2010 | Engine not operating | | | | |
| SVE-1065 E2 Post Cat | 6/29/2010 | 1.2 | 0.57 | 11.70 | 1.61 | 589 |

**Table A-3. SVE System Inlet and Exhaust Field Measurements, Fourth Quarter 2009 and First Quarter 2010, Bulk Fuels Facility (Concluded, Page 2 of 2)**

| Well Location | Sample Date | Pressure (in H2O) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|
| SVE-1066 Vapor Treatment Influent | 5/14/2010 | System not operating | | | | |
| SVE-1066 E1 Pre Cat A | 5/14/2010 | | | | | |
| SVE-1066 E1 Pre Cat B | 5/14/2010 | | | | | |
| SVE-1066 E2 Pre Cat A | 5/14/2010 | | | | | |
| SVE-1066 E2 Pre Cat B | 5/14/2010 | | | | | |
| SVE-1066 E1 Post Cat | 5/14/2010 | | | | | |
| SVE-1066 E2 Post Cat | 5/14/2010 | | | | | |
| KAFB-1066 Vapor Treatment Influent | 6/29/2010 | -12.0 | 0.00 | 4.98 | 10.70 | 45,540 |
| SVE-1066 E1 Pre Cat A | 6/29/2010 | 7.0 | 0.36 | 10.82 | 2.78 | 122 |
| SVE-1066 E1 Pre Cat B | 6/29/2010 | 7.0 | 0.39 | 11.38 | 1.87 | 117 |
| SVE-1066 E2 Pre Cat A | 6/29/2010 | 7.0 | 0.32 | 10.92 | 2.62 | 110 |
| SVE-1066 E2 Pre Cat B | 6/29/2010 | 5.0 | 0.32 | 11.18 | 2.30 | 136 |
| SVE-1066 E1 Post Cat | 6/29/2010 | 1.5 | 0.42 | 11.67 | 1.83 | 105 |
| SVE-1066 E2 Post Cat | 6/29/2010 | 1.0 | 0.31 | 11.72 | 1.29 | 124 |
| | | | | | | |
| SVE-1068 Vapor Treatment Influent | 5/14/10 | -27.0 | 0 | 1.06 | 18.13 | 13,806 |
| SVE-1068 E1 Pre Cat A | 5/14/10 | 8.0 | 0.42 | 5.8 | 10.71 | 837 |
| SVE-1068 E1 Pre Cat B | 5/14/10 | 9.0 | 0.48 | 6.62 | 8.9 | 1,017 |
| SVE-1068 E2 Pre Cat A | 5/14/10 | 9.0 | 0.61 | 5.32 | 11.22 | 1,643 |
| SVE-1068 E2 Pre Cat B | 5/14/10 | 9.0 | 0.47 | 3.3 | 15.2 | 662 |
| SVE-1068 E1 Post Cat | 5/14/10 | 1.5 | 0.13 | 4.54 | 13.3 | 530 |
| SVE-1068 E2 Post Cat | 5/14/10 | 2.0 | 0.39 | 6.16 | 10.16 | 1,241 |
| KAFB-1068Vapor Treatment Influent | 6/29/2010 | -27.0 | 0.01 | 1.74 | 15.93 | 15,723 |
| SVE-1068 E1 Pre Cat A | 6/29/2010 | 7.0 | 0.97 | 8.90 | 3.72 | 2290 |
| SVE-1068 E1 Pre Cat B | 6/29/2010 | 7.5 | 0.99 | 9.36 | 3.08 | 1077 |
| SVE-1068 E2 Pre Cat A | 6/29/2010 | 9.0 | 0.77 | 9.40 | 3.27 | 1596 |
| SVE-1068 E2 Pre Cat B | 6/29/2010 | 8.5 | 0.85 | 9.26 | 3.36 | 1586 |
| SVE-1068 E1 Post Cat | 6/29/2010 | 2.0 | 0.82 | 9.54 | 3.28 | 1610 |
| SVE-1068 E2 Post Cat | 6/29/2010 | 2.0 | 0.36 | 10.50 | 1.80 | 1408 |

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# APPENDIX B

# Groundwater and Soil Vapor Data Quality Evaluation Report

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B-2 Summary of Analytical Parameters for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

B-3 Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

B-4 Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AFB | Air Force Base |
| ASL | Applied Sciences Laboratory |
| AWWA | American Water Works Association |
| CCV | continuing calibration verification |
| CCB | continuing calibration blank |
| %D | percent difference |
| DQE | data quality evaluation |
| EB | equipment blank |
| EPA | Environmental Protection Agency |
| FD | field duplicate |
| ICB | initial calibration blank |
| ICV | initial calibration verification |
| LCS | laboratory control spike |
| LCSD | laboratory control spike duplicate |
| MS | matrix spike |
| MSD | matrix spike duplicate |
| NFG | National Functional Guidelines |
| PAH | polyaromatic hydrocarbon |
| PARCC | precision, accuracy, representativeness, comparability, and completeness |
| PDF | Portable Document Format |
| QAPP | quality assurance project plan |
| QC | quality control |
| %R | percent recovery |
| %RSD | percent relative standard deviation |
| RL | reporting limit |
| RPD | relative percent difference |
| RRF | relative response factor |
| SVOC | semivolatile organic compounds |
| TB | trip blank |
| TPH | total petroleum hydrocarbons |
| USAF | U.S. Air Force |
| VOC | volatile organic compounds |

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# B1.0 INTRODUCTION

This data quality evaluation (DQE) report presents the analytical results for groundwater and vapor samples collected from the Bulk Fuels Facility Spill area at Kirtland Air Force Base (AFB), New Mexico. Groundwater and vapor samples were collected from April through June 2010. Guidance for this DQE report came from the *Kirtland AFB Bulk Fuels Facility Quality Assurance Project Plan (ST-106 [QAPP])* (U.S. Air Force [USAF], 2009), the *Kirtland AFB Environmental Restoration Program Base-Wide Quality Assurance Project Plan (QAPP) (*USAF, 2004), the *U.S. Environmental Protection Agency (EPA) Contract Laboratory National Functional Guidelines (NFG) for Organic Review* (EPA, 1999a), the *EPA Contract Laboratory NFG for Inorganic Review* (EPA, 2004), and individual method requirements. The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability, and completeness (PARCC) as defined in the ST-106 QAPP.

## B1.1 Analytical Data

This DQE report covers the following samples:

- 67 groundwater samples, six field duplicates (FD), two equipment blanks (EB) and 19 trip blanks (TB) reported in 20 sample delivery groups identified in Table B-1. The samples were collected and delivered to PEL, Inc. in Tampa, Florida.

- 16 vapor samples reported in three sample delivery groups identified in Table B-1. The samples were collected and delivered to Applied Sciences Laboratory (ASL) in Corvallis, Oregon.

The samples were analyzed by one or more of the methods listed in Table B-2. Due to the size of the data tables, all data tables are located on the compact disk provided with this report. The tables are presented in portable document format (PDF); the PDF files are searchable to allow for easy access to the data.

The analytical results were assessed by reviewing the following: (1) the chain-of-custody documentation; (2) holding-time compliance; (3) calibration criteria; (4) method blank and field blank samples; (5) laboratory control spike/laboratory control spike duplicate samples (LCS/LSCD); (6) surrogate spike recoveries; (7) matrix spike/matrix spike duplicate samples (MS/MSD); (8) FD precision; (9) internal standard recoveries; and (10) the required quality control (QC) samples at the specified frequencies.

Data flags were assigned according to the ST-106 QAPP. Multiple flags are routinely applied to specific sample method, matrix, and analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts. The data flags are those listed in the ST-106 QAPP and are defined below:

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample result was rejected due to serious deficiencies in the ability to analyze the sample and meet the QC criteria. The presence or absence of the analyte could not be verified.
U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.
UJ =The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

A summary of the qualified data is presented in Table B-3.

# B2.0 DATA VERIFICATION RESULTS FOR GROUNDWATER SAMPLES

## B2.1 Completeness Evaluation

### B2.1.1 Sampling Completeness

Sampling completeness was assessed by reviewing the chain-of-custody documentation. Required procedures were followed and all acceptance criteria were met indicating sample completeness for this project was 100 percent.

### B2.1.2 Analytical Completeness

Analytical completeness was evaluated using the following equation:

$$\text{Completeness} = \frac{\text{Number of valid data points}}{\text{Total number of measurements}} \times 100$$

Where:

The number of valid data points is the total number of valid analytical measurements based on the precision, accuracy, and holding-time evaluation.

All groundwater samples were analyzed according to the ST-106 QAPP. Based on the results of the data verification, the data are considered valid as qualified with the exception of 3,3'-dichlorobenzidine and benzidine which were rejected for project use in several samples associated with the semivolatile organic compound (SVOC) method. The completeness goal of 95 percent was met for all method and analyte combinations with the exception of 3,3'-dichlorobenzidine (89 percent) and benzidine (86 percent). The groundwater analytical results are listed in Table B-4.

## B2.2 Representativeness Evaluation

Representativeness is a qualitative expression of the degree to which sample data accurately and precisely represent a characteristic of a population, sampling point or an environmental condition. Representativeness is maximized by ensuring that the number and location of sampling points, sample collection and analysis methods are appropriate for the specific investigation and that the sampling and analysis program provides data that reflects "true" site conditions. The data were evaluated for representativeness by assessing the following: the use of standard methods and reporting units, sample preservation, holding-time compliance, and method and field blank results.

### B2.2.1 Holding Time and Preservation

Holding time is the length of time after sample collection to extraction and/or analysis. All sample analyses met holding-time requirements for this project with the following exception.

The analytical holding-time criterion of 14 days for 1,2-dibromoethane was exceeded by seven days for sample ST106-GW-1069-06052010. The result was qualified as estimated and flagged "J" in the sample.

The sample holding times for groundwater analyses are listed in Table B-5.

### B2.2.2 Method Blank Samples

A method blank contains all the target analytes of interest and is carried through the same analytical procedures as the environmental samples. Method blanks were analyzed at the required frequency and were free of contamination with the following exceptions:

Dissolved iron was detected at concentrations less than the reporting limit (RL) in several method blanks associated with the metals analysis. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks.

Total petroleum hydrocarbons (TPH) (C10-C28) were detected at concentrations less than the RL in several method blanks associated with Method SW8015-E. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks.

Several analytes were detected at concentrations less than the RL in multiple method blanks associated with the volatile organic compound (VOC) analysis. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times (10 times for common lab contaminants) the concentrations detected in the blanks.

Indeno(1,2,3-cd)pyrene was detected at concentrations less than the RL in several method blanks associated with the polyaromatic hydrocarbon (PAH) analysis. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks.

Nitrate was detected at a concentration less than the RL in several method blanks associated with Method E300. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentration detected in the blanks.

The results of the groundwater method blank analyses are presented in Table B-6.

### B2.2.3 Field Blank Samples

Trip blanks and EBs were collected, analyzed, and were free of contamination with the following exceptions.

Manganese was detected at a concentration greater than the RL in one EB associated with the metals analysis. The associated data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks.

Total and m,p-xylene were detected at concentrations greater than the RL in one EB associated with the VOC analysis. In addition, several analytes were detected at concentrations less than the RL in the EBs and/or TBs. The data were qualified as not detected and flagged "U" when the associated sample concentrations were less than five times (ten times for common laboratory contaminants) the concentrations detected in the blanks.

Several analytes were detected at concentrations less than the RL in one EB associated with the PAH analysis. The data were qualified as not detected and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blank.

The TPH (C10-C28) was detected at a concentration less than the RL in one EB associated with Method SW8015-E. The data were qualified as not detected and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks.

The results of the EB and TB analyses are presented in Table B-6.

## B2.3 Accuracy Evaluation

Accuracy is a measure of the level of agreement between a measurement and a known true value. Accuracy is evaluated by percent recovery (%R), which is calculated using the following equation:

$$\%R = \frac{A-B}{C} \times 100$$

Where,

A = the measured concentration of the analyte in the spiked sample;
B = the measured concentration of the analyte in the unspiked sample; and
C = the concentration of the analyte used for spiking.

Accuracy was evaluated using initial and continuing calibration recoveries, LCS/LCSD recoveries, MS/MSD recoveries, internal standard recoveries, surrogate spike recoveries, interference check standard recoveries and post-digestion spike recoveries.

### B2.3.1 Calibration

Initial and continuing calibration analyses were performed as required by the methods and met acceptance criteria with the following exceptions.

The percent relative standard deviation (%RSD) exceeded method criteria for 2,2-dichloropropane and bromomethane in one initial calibration associated with the VOC analysis. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the associated samples.

The relative response factor (RRF) for acetone was less than method criteria in several initial calibration verifications (ICV) associated with the VOC analysis. In addition, the RRF for 2-butanone was less than method criteria in several VOC continuing calibration verification (CCV) samples. The data were qualified as estimated detected results and flagged "J" in the associated samples.

The percent difference (%D) for dichlorodifluoromethane was less than the method criteria in one CCV associated with the VOC analysis, indicating a possible low bias. The data were qualified as estimated non-detected results and flagged "UJ" in the associated samples.

The %D for benzidine was less than the method criteria in one ICV associated with the SVOC analysis, indicating a possible low bias. In addition, the %Ds for several analytes were less the method criteria in a few SVOC CCVs, indicating a possible low bias. The data were qualified as estimated non-detected results and flagged "UJ" in the associated samples.

The %D for TPH (C10-C28) was less than method criteria in one CCV associated with Method SW8015-E. The data were qualified as estimated detects and flagged "J" in the associated samples.

The %D for 1,2-dibromoethane was greater than method criteria in one CCV associated with Method SW8011. Detected results were qualified as estimated and flagged "J". Non-detected results were not qualified.

Dissolved and/or total iron were detected at concentrations less than the RL in several initial calibration blanks (ICB) and continuing calibration blanks (CCB) associated with the metals analysis. The data were qualified as not detected, raised to the RL and flagged "U" when the associated sample concentrations were less than five times the concentrations detected in the blanks. In addition, there were several instances where dissolved manganese, total manganese and/or dissolved lead were detected at negative concentrations in the ICB/CCB. The associated results were qualified as estimated and flagged "J" because the sample concentration was less than the absolute value of the blank.

Nitrate was detected at concentrations less than the RL in several ICBs and/or CCBs. The data were qualified as not detected, raised to the RL and flagged "U" when the sample concentrations were less than five times the concentration detected in the blank.

### B2.3.2 Laboratory Control Samples

The LCS/LCSDs were analyzed to assess accuracy in the absence of matrix effects, and generally met acceptance criteria with the following exceptions.

The recovery of 1,2,3-trichloropropane was less than the lower control limits in one VOC LCS/LCSD, indicating a possible low bias. The data were qualified as estimated non-detected results and flagged "UJ" in the associated samples. In addition, several analytes were recovered greater than the upper control limits in a few VOC LCS/LCSDs, indicating a possible high bias. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

Several analytes were recovered less than the lower control limits in a few SVOC LCS/LCSDs, indicating a possible low bias. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the associated samples. In addition, several analtyes were recovered greater than the upper control limits in several LCS/LCSDs, indicating a possible high bias. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

Benzidine and 3,3'-dichlorobenzidine were not recovered in one SVOC LCS/LCSD, indicating the associated samples may be significantly biased low. The non-detected data were rejected for project use and flagged "R" in the associated samples.

Multiple analytes were recovered less than the lower control limits in several LCSs associated with the PAH analysis. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the associated samples. The recovery of 1-methylnaphthalene was greater than the upper control limits in one PAH LCS. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

Potassium was recovered greater than the upper control limits in one LCS associated with the metals analysis. The data were qualified as estimated and flagged "J" in the associated samples.

The groundwater LCS/LCSD results are presented in Table B-7.

### B2.3.3 Internal Standards

Internal standards were added to the methods requiring their use and all acceptance criteria were met.

### B2.3.4 Surrogate Samples

Surrogates were added to all samples for the methods requiring their use. The QC acceptance criteria were met with the following exceptions.

One surrogate associated with the VOC analysis was recovered greater than the upper control limit in sample ST106-GW-P-1065-16062010, indicating a possible high bias. Detected results were qualified as estimated and flagged "J" in the sample. Non-detected results were not qualified.

The surrogates associated with both the acid and base fractions of the SVOC analysis were recovered less than the lower control limits in sample ST106-GW-P-1066-21062010, indicating a possible low bias. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the sample.

The surrogate associated with Method SW8011 was recovered less than the lower control limit in sample ST106-GW-10625-16042010, indicating a possible low bias. The result was qualified as an estimated detect and flagged "J" in the sample.

The surrogate associated with the TPH (C10-C28) analysis was recovered greater than the upper control limits in several samples, indicating a possible high bias. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

One surrogate associated with the PAH analysis was recovered less than the lower control limits in sample ST106-GW-P-1068-21062010, indicating a possible low bias. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the sample.

The surrogate associated with Method E300 was recovered greater than the upper control limits in the dilution analysis of sample ST106-GW-10612-29042010, indicating a possible high bias. Detected results were qualified as estimated and flagged "J" in the sample. Non-detected results were not qualified.

### B2.3.5 Matrix Spikes

Site specific MS/MSD samples were analyzed to assess accuracy and to identify possible matrix effects associated with the samples. Only the "parent" samples were qualified for MS issues, but data users should take into consideration low spike recoveries when evaluating other sites which may be similar to these sample locations. The MS/MSD samples were analyzed as required and generally met acceptance criteria with the following exceptions.

Carbon disulfide was recovered greater than upper control limits in the VOC MS for sample ST106-GW-10624-27042010, indicating a possible high bias. The result was qualified as estimated and flagged "J" in the parent sample.

Several analytes were recovered less than the lower control limits in the SVOC MS/MSD for sample ST106-GW-10624-27042010, indicating a possible low bias. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the sample. In addition,

benzidine was not recovered in the MS/MSD, indicating a significantly low bias. The result was rejected for project use and flagged "R" in the sample. Several analytes were recovered greater than the upper control limits in the MS/MSD, indicating a possible high bias. The data were not qualified because the sample did not contain reportable levels of these analytes.

Dibenz(a,h)anthracene was recovered greater than the upper control limit in the PAH MS/MSD for sample ST106-GW-10624-27042010, indicating a possible high bias. The result was not qualified because the parent sample did not contain reportable levels of dibenz(a,h)anthracene.

The groundwater MS/MSD results are presented in Table B-8.

### B2.3.6 Interference Check Standard

Lead and manganese were recovered less than the lower control limits in the interference check standard associated with sample ST106-GW-10620-21042010. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in sample.

### B2.3.7 Post-Digestion Spike

Post digestion spike samples were analyzed according to methods requiring their use and all accuracy criteria were met with the following exception.

Dissolved manganese was less than lower control limits in the post-digestion spike for sample ST106-GW-P-1069-16062010, indicating a possible low bias. The result was qualified as estimated and flagged "J" in the sample.

## B2.4 Precision Evaluation

Precision measures the reproducibility of measurements under a given set of conditions and is expressed as relative percent difference (RPD):

$$RPD = \left( \frac{|A-B|}{[A+B]/2} \right) \times 100$$

Where,
A = the concentration of "parent" sample, and
B = the concentration of the "duplicate/replicate" sample.

Precision was evaluated for this project using FD, LCSD, MSD, serial dilution, confirmation and serial dilution RPDs.

### B2.4.1 Field Duplicates Samples

The FDs were collected and analyzed as required and all precision criteria were met with the following exception.

The RPD for TPH C6-C10 exceeded the control limit for the FD pair ST106-GW-P-10614-21062010/ ST106-FD-P-10614-21062010. The data were qualified as estimated and flagged "J" in the FD pair.

### B2.4.2 Laboratory Control Sample Duplicates

The LCSD samples were analyzed and all precision criteria were met with the following exceptions.

The RPDs for several analytes exceeded the control limit in several VOC LCS/LCSDs. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

The RPD for multiple analytes exceeded the control limit in several SVOC LCS/LCSDs. The data were not qualified because the associated samples did not contain reportable levels of these analytes.

The RPDs for several analytes exceeded the control limit in one PAH LCS/LCSD. Detected results were qualified as estimated and flagged "J" in the associated samples. Non-detected results were not qualified.

### B2.4.3 Matrix Spike Duplicate Samples

The MSD samples were analyzed as required and all acceptance criteria were met.

### B2.4.4 Serial Dilutions

Serial dilutions were analyzed according to methods requiring their use and met all QC criteria with the following exception.

The RPD between the serial dilution and sample ST106-GW-10624-27042010 exceeded criteria for iron in the metals analysis. The result was qualified as estimated and flagged "J" in the sample.

### B2.4.5 Confirmation

Confirmation samples were analyzed according to methods requiring their use and met all QC criteria with the following exception.

The confirmation RPD exceeded control limits for 1,2-dibromoethane in sample ST106-GW-10619-20042010 associated with method SW8011. The result was qualified as estimated and flagged "J" in the sample.

## B2.5 Comparability Evaluation

Comparability is expressed as the confidence level in which one data set may be compared to another data set. Standardized methodology was used in the collection, analysis, and reporting of the data. Therefore, the data from this sampling event should be comparable to data collected previously at the site.

## B2.6 Overall Assessment

Review of laboratory control data and field QC indicators were used to assess the PARCC of the quarterly groundwater samples collected by CH2M HILL at Bulk Fuels Facility area. The assessment concluded that the PARCC of the data are generally acceptable. Evaluation of the data was modeled after the *EPA NFG for Organic Data Review* (EPA, 1999a), the *EPA NFG for Inorganic Data Review (EPA, 2004), Kirtland AFB Bulk Fuels Facility Quality Assurance Project Plan (ST-106 QAPP)* (USAF, 2009), and individual method requirements.

Precision of the data was verified through the review of the field and laboratory data quality indicators that include LCSD, MSD, serial dilution, FD and confirmation RPDs. Precision was generally acceptable with the exception of a few analytes which were qualified as estimated due to FD, LCSD, serial dilution, and confirmation RPD issues. Data users should consider the impact to any result that is qualified as estimated as it may contain a bias which could affect the decision making process.

Accuracy of the data was verified through the review of calibration data, LCS/LCSD samples, MS/MSD samples, internal standards, surrogate spike data, post-digestion spike data, and interference check standards, as well as, the evaluation of method/field blank data. Accuracy was generally acceptable with a few compounds being qualified as estimated due to calibration, LCS/LCSD, MS/MSD, surrogate spike recovery issues, post-digestion spike and/or interference check standard recoveries. In addition, there were a few instances where SVOC data were rejected for project use due to LCS/LCSD and/or MS/MSD issues. A few analytes were qualified as not detected due to method blank, ICB, CCB, and/or field blank contamination.

Representativeness of the data was verified through the sample's collection, storage, and preservation procedures and the verification of holding-time compliance. The laboratory did not note any issues related to sample preservation or storage of the samples. The holding-time criterion for 1,2-dibromoethane was exceeded in sample ST106-GW-1069-06052010, resulting in data being qualified as estimated. All other data were reported from analyses within the EPA recommended holding time.

Comparability of the data was ensured through the use of standard EPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that collection and analytical techniques followed approved, documented procedures.

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements, compared to planned measurements. Valid data are defined as all data that are not rejected for project use. The groundwater data are considered valid with the exception of 3,3'-dichlorobenzidine and benzidine which were rejected for project use in several samples associated with the SVOC analysis. The completeness goal of 95 percent was met for all method and analyte combinations with the exception of 3,3'-dichlorobenzidine (89 percent) and benzidine (86 percent).

# B3.0 DATA VERIFICATION RESULTS FOR VAPOR SAMPLES

## B3.1 Completeness Evaluation

### B3.1.1 Sampling Completeness

Sampling completeness was assessed by reviewing the chain-of-custody documentation. Required procedures were followed and all acceptance criteria were met indicating sample completeness for this project was 100 percent.

### B3.1.2 Analytical Completeness

Analytical completeness was evaluated using the following equation:

$$\text{Completeness} = \frac{\text{Number of valid data points}}{\text{Total number of measurements}} \times 100$$

Where:

The number of valid data points is the total number of valid analytical measurements based on the precision, accuracy, and holding-time evaluation.

All samples were analyzed according to the ST-106 QAPP. Based on the results of the data verification, the data are considered valid as qualified. The completeness goal of 95 percent was met for all method and analyte combinations.

The vapor analytical results are listed in Table B-9.

## B3.2 Representativeness Evaluation

Representativeness is a qualitative expression of the degree to which sample data accurately and precisely represent a characteristic of a population, sampling point or an environmental condition. Representativeness is maximized by ensuring that the number and location of sampling points, sample collection and analysis methods are appropriate for the specific investigation and that the sampling and analysis program provides data that reflects “true” site conditions. The data were evaluated for representativeness by assessing the following: the use of standard methods and reporting units, sample preservation, holding-time compliance, and method blank results.

### B3.2.1 Holding Time and Preservation

Holding time is the length of time after sample collection to extraction and/or analysis. All sample analyses met holding-time requirements for this project with the following exceptions:

The holding-time criterion of 30 days was exceeded for several samples by 4-5 days. The data were qualified as estimated detected and non-detected results and flagged “J” and “UJ”, respectively, in the associated samples.

The vapor sample holding times for this project are listed in Table B-10.

### B3.2.2 Method Blank Samples

A method blank contains all the target analytes of interest and is carried through the same analytical procedures as the environmental samples. Method blanks were analyzed at the required frequency and were free of contamination with the following exceptions.

Multiple analytes were detected at concentrations less than the RL in several method blanks associated with the TO15 analysis. The data were qualified as not detected, raised to the RL and flagged "U" when the sample concentrations were less than five times (ten times for common lab contaminants) the blank concentrations.

The results of the vapor sample method blank analyses are presented in Table B-11.

## B3.3 Accuracy Evaluation

Accuracy is a measure of the level of agreement between a measurement and a known true value. Accuracy is evaluated by %R, which is calculated using the following equation:

$$\%R = \frac{A-B}{C} \times 100$$

Where,

A = the measured concentration of the analyte in the spiked sample;
B = the measured concentration of the analyte in the unspiked sample; and
C = the concentration of the analyte used for spiking.

Accuracy was evaluated using initial and continuing calibration recoveries, LCS/LCSD recoveries, internal standard recoveries, and surrogate spike recoveries.

### B3.3.1 Calibration

Initial and continuing calibration analyses were performed as required by the methods; all acceptance criteria were met with the following exception.

The %D for carbon tetrachloride was less than method criteria in one continuing calibration verification associated with the TO15 analysis. The data were qualified as estimated non-detected results and flagged "UJ" in the associated samples.

### B3.3.2 Laboratory Control Samples

The LCS samples were analyzed to assess accuracy in the absence of matrix effects; all acceptance criteria were met with the following exception.

Several analytes were recovered less than the lower control limits in a few LCSs associated with the TO15 analysis, indicating a possible low bias. The data were qualified as estimated detected and non-detected results and flagged "J" and "UJ", respectively, in the associated samples.

The vapor LCS results are presented in Table B-12.

### B3.3.3 Internal Standards

Internal standards were added to the methods requiring their use; all acceptance criteria were met.

### B3.3.4 Surrogate Samples

Surrogates were added to all samples for the methods requiring their use ; all acceptance criteria were met.

## B3.4 Precision Evaluation

Precision measures the reproducibility of measurements under a given set of conditions and is expressed as RPD:

$$RPD = \left( \frac{|A-B|}{[A+B]/2} \right) \times 100$$

Where,

A = the concentration of "parent" sample, and
B = the concentration of the "duplicate/replicate" sample.

Precision was not evaluated for this project.

## B3.5 Comparability Evaluation

Comparability is expressed as the confidence level in which one data set may be compared to another data set. Standardized methodology was used in the collection, analysis, and reporting of the data. Therefore, the data from this sampling event should be comparable to data collected previously at the site.

## B3.6 Overall Assessment

Review of laboratory control data and field QC indicators were used to assess the PARCC of the quarterly vapor samples collected by CH2M HILL at the Bulk Fuels Facility area. The assessment concluded that the PARCC of the data are generally acceptable. Evaluation of the data was modeled after the *EPA NFG for Organic Data Review* (EPA, 1999a), *Kirtland AFB Bulk Fuels Facility Quality Assurance Project Plan (ST-106 QAPP)* (USAF, 2009), and individual method requirements.

Precision was not evaluated.

Accuracy of the data was verified through the review of calibration data, LCS samples, internal standards, and surrogate spike data, as well as, the evaluation of method blank data. Accuracy was generally acceptable with the exception of several analytes qualified as estimated due to calibration and/or LCS issues. In addition, a few analytes were qualified as not detected due to method blank contamination. Data users should consider the impact to any result that is qualified as estimated as it may contain a bias which could affect the decision making process

Representativeness of the data was verified through the sample's collection, storage and preservation procedures and the verification of holding-time compliance. The laboratory did not note any issues related to sample preservation or storage of the samples. The holding-time criterion for the TO15 analysis was exceeded in several samples, resulting in data being qualified as estimated. All other data were reported from analyses within the EPA recommended holding time.

Comparability of the data was ensured through the use of standard EPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that collection and analytical techniques followed approved, documented procedures.

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements, compared to planned measurements. Valid data are defined as all data that are not rejected for project use. The data are considered valid as reviewed. The completeness goal of 95 percent was met for all methods and analyte combinations.

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# ATTACHMENT
# Data Validation Tables

## (ALL DATA VALIDATION TABLES ARE PROVIDED ON THE CD INCLUDED WITH THIS REPORT)

**Table B-1. Summary of Sample Delivery Groups for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010**

| Sample Delivery Group Number | Matrix |
|---|---|
| 2515546 | Groundwater |
| 2515580 | Groundwater |
| 2515592 | Groundwater |
| 2515603 | Groundwater |
| 2515619 | Groundwater |
| 2515638 | Groundwater |
| 2515679 | Groundwater |
| 2515690 | Groundwater |
| 2515691 | Groundwater |
| 2515707 | Groundwater |
| 2515725 | Groundwater |
| 2515736 | Groundwater |
| 2515752 | Groundwater |
| 2515786 | Groundwater |
| 2515807 | Groundwater |
| 2515808 | Groundwater |
| 2515963 | Groundwater |
| 2516238 | Groundwater |
| 2516259 | Groundwater |
| 2516299 | Groundwater |
| J1574 | Vapor |
| J1875 | Vapor |
| J1876 | Vapor |

**Table B-2. Summary of Analytical Parameters for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010**

| Parameter | Method | Matrix | Laboratory |
|---|---|---|---|
| Volatile Organic Compounds (VOCs) | SW8260B (EPA, 1996) | Groundwater | PEL |
| Semivolatile Organic Compounds (SVOCs) | SW8270C (EPA, 1996) | Groundwater | PEL |
| Polyaromatic Hydrocarbons (PAH) | SW8310 (EPA, 1996) | Groundwater | PEL |
| 1,2-Dibromoethane (EDB) | SW8011 (EPA, 1996) | Groundwater | PEL |
| Total Petroleum Hydrocarbons (TPH) (C6-C10) | SW8015-P (EPA, 1996) | Groundwater | PEL |
| Total Petroleum Hydrocarbons (TPH) (C10-C28) | SW8015-E (EPA, 1996) | Groundwater | PEL |
| Dissolved Iron (Fe) and Manganese (Mn) | SW6010B (EPA, 1996) | Groundwater | PEL |
| Total Metals | SW6010B (EPA, 1996) | Groundwater | PEL |
| Nitrate, Chloride and Sulfate | EPA 300 (EPA, 1993) | Groundwater | PEL |
| Alkalinity | EPA 310.1 (EPA, 1993) | Groundwater | PEL |
| VOCs | TO-15 (EPA, 1999b) | Vapor | ASL |
| Fixed Gases | A2720C (AWWA, 1998) | Vapor | ASL |
| Total Petroleum Hydrocarbons (TPH)-Gasoline | SW8015M (EPA, 1996) | Vapor | ASL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-10610-06042010 | TO15 | Carbon tetrachloride | ppbv | 475 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-10610-06042010 | TO15 | Methylene chloride | ppbv | 33250 | U | LB<RL |
| ST106-AR-1065-06042010 | TO15 | Carbon tetrachloride | ppbv | 302 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-1065-06042010 | TO15 | Methylene chloride | ppbv | 21150 | U | LB<RL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1,1-TCA | ppbv | 20.9 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 300 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1,2-TCA | ppbv | 25.3 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 29.9 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1-DCA | ppbv | 28.7 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,1-DCE | ppbv | 15 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 23.5 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 1060 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2-DCA | ppbv | 55.9 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2-DCB | ppbv | 21.8 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 29 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 25.4 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,2-EDB | ppbv | 38.2 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 512 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,3-DCB | ppbv | 21.2 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | 1,4-DCB | ppbv | 21.2 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Acetone | ppbv | 95.3 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Benzene | ppbv | 16200 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Bromomethane | ppbv | 208.5 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065INLET-14052010 | TO15 | Carbon tetrachloride | ppbv | 11.7 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Chlorobenzene | ppbv | 25.6 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Chloroethane | ppbv | 34.4 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Chloroform | ppbv | 29 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Chloromethane | ppbv | 54.6 | J | HTa>UCL, LCS<LCL |
| ST106-AR-1065INLET-14052010 | TO15 | cis-1,2-DCE | ppbv | 31.6 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 17.2 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 31.9 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Ethylbenzene | ppbv | 2170 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Hexachlorobutadiene | ppbv | 17.7 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | m,p-Xylene | ppbv | 7370 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | MEK (2-Butanone) | ppbv | 8.29 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Methylene chloride | ppbv | 31.1 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 36.1 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | o-Xylene | ppbv | 2340 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Styrene | ppbv | 22.5 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | TCE | ppbv | 30.6 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Tetrachloroethylene | ppbv | 28.6 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1065INLET-14052010 | TO15 | Toluene | ppbv | 31400 | J | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 17.9 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Trichlorofluoromethane | ppbv | 31.9 | UJ | HTa>UCL |
| ST106-AR-1065INLET-14052010 | TO15 | Vinyl chloride | ppbv | 36.9 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1,1-TCA | ppbv | 5.11 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 5.68 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1,2-TCA | ppbv | 6.19 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 7.31 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1-DCA | ppbv | 7.03 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,1-DCE | ppbv | 3.67 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 51 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 51 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2-DCA | ppbv | 6.46 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2-DCB | ppbv | 5.33 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 7.09 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 6.22 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,2-EDB | ppbv | 4.88 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 16.4 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,3-DCB | ppbv | 5.19 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | 1,4-DCB | ppbv | 51 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE1-14052010 | TO15 | Acetone | ppbv | 1460 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Benzene | ppbv | 6540 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Bromomethane | ppbv | 73 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE1-14052010 | TO15 | Carbon tetrachloride | ppbv | 2.86 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Chlorobenzene | ppbv | 6.27 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Chloroethane | ppbv | 8.4 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Chloroform | ppbv | 7.09 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Chloromethane | ppbv | 21.1 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | cis-1,2-DCE | ppbv | 7.74 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 4.2 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 7.8 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Ethylbenzene | ppbv | 103 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Hexachlorobutadiene | ppbv | 51 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE1-14052010 | TO15 | m,p-Xylene | ppbv | 15.6 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | MEK (2-Butanone) | ppbv | 40.2 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Methylene chloride | ppbv | 7.6 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 8.82 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | o-Xylene | ppbv | 112 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Styrene | ppbv | 44.1 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | TCE | ppbv | 7.49 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Tetrachloroethylene | ppbv | 6.99 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1065POSTE1-14052010 | TO15 | Toluene | ppbv | 2980 | J | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 4.37 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Trichlorofluoromethane | ppbv | 7.8 | UJ | HTa>UCL |
| ST106-AR-1065POSTE1-14052010 | TO15 | Vinyl chloride | ppbv | 9.02 | UJ | HTa>UCL, LCS<LCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1,1-TCA | ppbv | 4.66 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 5.18 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1,2-TCA | ppbv | 5.64 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 6.66 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1-DCA | ppbv | 6.4 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,1-DCE | ppbv | 3.34 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 5.24 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 63.4 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2-DCA | ppbv | 5.88 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2-DCB | ppbv | 4.86 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 6.46 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 5.67 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,2-EDB | ppbv | 4.44 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 40.3 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,3-DCB | ppbv | 4.73 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | 1,4-DCB | ppbv | 4.72 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Acetone | ppbv | 709 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Benzene | ppbv | 6750 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Bromomethane | ppbv | 68.3 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1065POSTE2-14052010 | TO15 | Carbon tetrachloride | ppbv | 2.61 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Chlorobenzene | ppbv | 5.71 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Chloroethane | ppbv | 7.65 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Chloroform | ppbv | 6.46 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Chloromethane | ppbv | 35.4 | J | HTa>UCL, LCS<LCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | cis-1,2-DCE | ppbv | 7.05 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 3.83 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 7.1 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Ethylbenzene | ppbv | 223 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Hexachlorobutadiene | ppbv | 3.94 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | m,p-Xylene | ppbv | 619 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | MEK (2-Butanone) | ppbv | 43.7 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Methylene chloride | ppbv | 6.92 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 8.03 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | o-Xylene | ppbv | 304 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Styrene | ppbv | 167 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | TCE | ppbv | 6.83 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Tetrachloroethylene | ppbv | 6.37 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1065POSTE2-14052010 | TO15 | Toluene | ppbv | 5290 | J | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 3.98 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Trichlorofluoromethane | ppbv | 7.11 | UJ | HTa>UCL |
| ST106-AR-1065POSTE2-14052010 | TO15 | Vinyl chloride | ppbv | 8.21 | UJ | HTa>UCL |
| ST106-AR-1066-06042010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 10050 | U | LB<RL |
| ST106-AR-1066-06042010 | TO15 | Carbon tetrachloride | ppbv | 717 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-1066-06042010 | TO15 | Methylene chloride | ppbv | 50250 | U | LB<RL |
| ST106-AR-1068-06042010 | TO15 | Carbon tetrachloride | ppbv | 478 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-1068-06042010 | TO15 | Methylene chloride | ppbv | 33500 | U | LB<RL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1,1-TCA | ppbv | 422 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 469 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1,2-TCA | ppbv | 511 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 603 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1-DCA | ppbv | 580 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,1-DCE | ppbv | 303 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 4210 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 7130 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2-DCA | ppbv | 533 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2-DCB | ppbv | 440 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 585 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 514 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,2-EDB | ppbv | 423 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 3550 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,3-DCB | ppbv | 428 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | 1,4-DCB | ppbv | 428 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Acetone | ppbv | 1920 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Benzene | ppbv | 138000 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Bromomethane | ppbv | 4210 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068INLET-14052010 | TO15 | Carbon tetrachloride | ppbv | 236 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Chlorobenzene | ppbv | 517 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Chloroethane | ppbv | 694 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Chloroform | ppbv | 586 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Chloromethane | ppbv | 564 | J | HTa>UCL, LCS<LCL |
| ST106-AR-1068INLET-14052010 | TO15 | cis-1,2-DCE | ppbv | 639 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 347 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 644 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Ethylbenzene | ppbv | 21400 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Hexachlorobutadiene | ppbv | 357 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | m,p-Xylene | ppbv | 30600 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | MEK (2-Butanone) | ppbv | 1730 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Methylene chloride | ppbv | 627 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1068INLET-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 728 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | o-Xylene | ppbv | 18200 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Styrene | ppbv | 454 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | TCE | ppbv | 619 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Tetrachloroethylene | ppbv | 577 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Toluene | ppbv | 318000 | J | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 361 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Trichlorofluoromethane | ppbv | 644 | UJ | HTa>UCL |
| ST106-AR-1068INLET-14052010 | TO15 | Vinyl chloride | ppbv | 744 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1,1-TCA | ppbv | 8.85 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 13.5 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1,2-TCA | ppbv | 8.85 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 9.36 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1-DCA | ppbv | 11.9 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,1-DCE | ppbv | 7.85 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 17.2 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 11.7 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-DCA | ppbv | 9.47 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-DCB | ppbv | 11.9 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 99.5 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 99.5 | U | LB<RL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 870 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,2-EDB | ppbv | 9.57 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 13.7 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,3-DCB | ppbv | 10.1 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | 1,4-DCB | ppbv | 15.1 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Acetone | ppbv | 11.8 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Benzene | ppbv | 19800 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Bromomethane | ppbv | 99.5 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068POSTE1-14052010 | TO15 | Carbon tetrachloride | ppbv | 7.1 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Chlorobenzene | ppbv | 8.75 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Chloroethane | ppbv | 11.4 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Chloroform | ppbv | 11.9 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Chloromethane | ppbv | 20.3 | J | HTa>UCL, LCS<LCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | cis-1,2-DCE | ppbv | 9.36 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 10 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 7.1 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Ethylbenzene | ppbv | 14.4 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Hexachlorobutadiene | ppbv | 16.3 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | m,p-Xylene | ppbv | 29.3 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | MEK (2-Butanone) | ppbv | 13.7 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1068POSTE1-14052010 | TO15 | Methylene chloride | ppbv | 15.3 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 14.2 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | o-Xylene | ppbv | 11.3 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Styrene | ppbv | 13.2 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | TCE | ppbv | 61.8 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Tetrachloroethylene | ppbv | 24.4 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Toluene | ppbv | 52.1 | J | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 13 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Trichlorofluoromethane | ppbv | 5.11 | UJ | HTa>UCL |
| ST106-AR-1068POSTE1-14052010 | TO15 | Vinyl chloride | ppbv | 7.23 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1,1-TCA | ppbv | 1.13 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 1.26 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1,2-TCA | ppbv | 1.37 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 1.62 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1-DCA | ppbv | 1.56 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,1-DCE | ppbv | 0.81 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 11.3 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 11.3 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2-DCA | ppbv | 1.43 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2-DCB | ppbv | 1.18 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 1.57 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 1.38 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,2-EDB | ppbv | 1.08 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 1.3 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,3-DCB | ppbv | 1.15 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | 1,4-DCB | ppbv | 1.15 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Acetone | ppbv | 5.16 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Benzene | ppbv | 781 | J | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Bromomethane | ppbv | 11.3 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-1068POSTE2-14052010 | TO15 | Carbon tetrachloride | ppbv | 0.63 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Chlorobenzene | ppbv | 1.39 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Chloroethane | ppbv | 1.86 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Chloroform | ppbv | 1.57 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Chloromethane | ppbv | 2 | J | HTa>UCL, LCS<LCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | cis-1,2-DCE | ppbv | 1.71 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 0.93 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 1.73 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Ethylbenzene | ppbv | 4.44 | J | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Hexachlorobutadiene | ppbv | 11.3 | J | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Hexachlorobutadiene | ppbv | 11.3 | U | LB<RL |
| ST106-AR-1068POSTE2-14052010 | TO15 | m,p-Xylene | ppbv | 3.45 | UJ | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-1068POSTE2-14052010 | TO15 | MEK (2-Butanone) | ppbv | 0.45 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Methylene chloride | ppbv | 1.68 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 1.95 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | o-Xylene | ppbv | 4.18 | J | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Styrene | ppbv | 1.22 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | TCE | ppbv | 1.66 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Tetrachloroethylene | ppbv | 1.55 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Toluene | ppbv | 44.9 | J | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 0.97 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Trichlorofluoromethane | ppbv | 1.73 | UJ | HTa>UCL |
| ST106-AR-1068POSTE2-14052010 | TO15 | Vinyl chloride | ppbv | 2 | UJ | HTa>UCL |
| ST106-AR-1069-06042010 | TO15 | Carbon tetrachloride | ppbv | 475 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-1069-06042010 | TO15 | Methylene chloride | ppbv | 33250 | U | LB<RL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1,1-TCA | ppbv | 521 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 580 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1,2-TCA | ppbv | 631 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 745 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1-DCA | ppbv | 716 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,1-DCE | ppbv | 374 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 587 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 14500 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2-DCA | ppbv | 658 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2-DCB | ppbv | 544 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 723 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 635 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,2-EDB | ppbv | 1290 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 6140 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,3-DCB | ppbv | 529 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | 1,4-DCB | ppbv | 529 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Acetone | ppbv | 477000 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Benzene | ppbv | 344000 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Bromomethane | ppbv | 5200 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-106INLET-14052010 | TO15 | Carbon tetrachloride | ppbv | 292 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Chlorobenzene | ppbv | 639 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Chloroethane | ppbv | 857 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Chloroform | ppbv | 723 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Chloromethane | ppbv | 944 | J | HTa>UCL, LCS<LCL |
| ST106-AR-106INLET-14052010 | TO15 | cis-1,2-DCE | ppbv | 789 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 428 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 795 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Ethylbenzene | ppbv | 52400 | J | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-106INLET-14052010 | TO15 | Hexachlorobutadiene | ppbv | 441 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | m,p-Xylene | ppbv | 123000 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | MEK (2-Butanone) | ppbv | 34100 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Methylene chloride | ppbv | 774 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 899 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | o-Xylene | ppbv | 41400 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Styrene | ppbv | 561 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | TCE | ppbv | 764 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Tetrachloroethylene | ppbv | 713 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Toluene | ppbv | 767000 | J | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 446 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Trichlorofluoromethane | ppbv | 796 | UJ | HTa>UCL |
| ST106-AR-106INLET-14052010 | TO15 | Vinyl chloride | ppbv | 919 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1,1-TCA | ppbv | 3.51 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 3.9 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1,2-TCA | ppbv | 4.25 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 5.02 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1-DCA | ppbv | 4.82 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,1-DCE | ppbv | 2.52 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 3.95 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 33.6 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2-DCA | ppbv | 4.43 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2-DCB | ppbv | 3.66 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 4.86 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 4.27 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,2-EDB | ppbv | 3.35 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 14.7 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,3-DCB | ppbv | 3.56 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | 1,4-DCB | ppbv | 3.56 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Acetone | ppbv | 5860 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Benzene | ppbv | 1560 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Bromomethane | ppbv | 43 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-106POSTE1-14052010 | TO15 | Carbon tetrachloride | ppbv | 1.96 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Chlorobenzene | ppbv | 4.3 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Chloroethane | ppbv | 5.77 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Chloroform | ppbv | 4.87 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Chloromethane | ppbv | 14.5 | J | HTa>UCL, LCS<LCL |
| ST106-AR-106POSTE1-14052010 | TO15 | cis-1,2-DCE | ppbv | 5.31 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 2.88 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 5.35 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Ethylbenzene | ppbv | 161 | J | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-106POSTE1-14052010 | TO15 | Hexachlorobutadiene | ppbv | 2.97 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | m,p-Xylene | ppbv | 10.7 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | MEK (2-Butanone) | ppbv | 471 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Methylene chloride | ppbv | 5.21 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 6.05 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | o-Xylene | ppbv | 77.2 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Styrene | ppbv | 41.2 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | TCE | ppbv | 16.8 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Tetrachloroethylene | ppbv | 4.8 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Toluene | ppbv | 1500 | J | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 3 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Trichlorofluoromethane | ppbv | 5.36 | UJ | HTa>UCL |
| ST106-AR-106POSTE1-14052010 | TO15 | Vinyl chloride | ppbv | 6.19 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1,1-TCA | ppbv | 1.22 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1,2,2-Tetrachloroethane | ppbv | 1.35 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1,2-TCA | ppbv | 1.48 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ppbv | 1.74 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1-DCA | ppbv | 1.67 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,1-DCE | ppbv | 0.87 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2,4-Trichlorobenzene | ppbv | 1.37 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2,4-Trimethylbenzene | ppbv | 10.6 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2-DCA | ppbv | 1.54 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2-DCB | ppbv | 1.27 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ppbv | 1.69 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2-Dichloropropane | ppbv | 1.48 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,2-EDB | ppbv | 1.16 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,3,5-Trimethylbenzene | ppbv | 4.71 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,3-DCB | ppbv | 1.24 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | 1,4-DCB | ppbv | 1.23 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Acetone | ppbv | 1210 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Benzene | ppbv | 478 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Bromomethane | ppbv | 16.7 | U | LB<RL, Hta>UCL (J) |
| ST106-AR-106POSTE2-14052010 | TO15 | Carbon tetrachloride | ppbv | 0.68 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Chlorobenzene | ppbv | 1.49 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Chloroethane | ppbv | 2 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Chloroform | ppbv | 1.69 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Chloromethane | ppbv | 3.96 | J | HTa>UCL, LCS<LCL |
| ST106-AR-106POSTE2-14052010 | TO15 | cis-1,2-DCE | ppbv | 1.84 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | cis-1,3-Dichloropropene | ppbv | 1 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Dichlorodifluoromethane | ppbv | 1.86 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Ethylbenzene | ppbv | 62.7 | J | HTa>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-AR-106POSTE2-14052010 | TO15 | Hexachlorobutadiene | ppbv | 1.03 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | m,p-Xylene | ppbv | 3.71 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | MEK (2-Butanone) | ppbv | 108 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Methylene chloride | ppbv | 1.81 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | MTBE (Methyl tert-Butyl Ether) | ppbv | 2.1 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | o-Xylene | ppbv | 26 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Styrene | ppbv | 19.9 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | TCE | ppbv | 1.79 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Tetrachloroethylene | ppbv | 1.67 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Toluene | ppbv | 506 | J | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | trans-1,3-Dichloropropene | ppbv | 1.04 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Trichlorofluoromethane | ppbv | 1.86 | UJ | HTa>UCL |
| ST106-AR-106POSTE2-14052010 | TO15 | Vinyl chloride | ppbv | 2.15 | UJ | HTa>UCL |
| ST106-AR-SVEW01-07042010 | TO15 | Carbon tetrachloride | ppbv | 492 | UJ | CCV<LCL, LCS<LCL |
| ST106-AR-SVEW01-07042010 | TO15 | Methylene chloride | ppbv | 34500 | U | LB<RL |
| ST106-FD-10613-LF501-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-FD-10613-LF501-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-FD-10613-LF506-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-FD-10613-LF514-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-FD-10624-27042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-FD-10624-27042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-FD-10624-27042010 | SW8270C | 4-Nitrophenol | µg/L | 50.5 | UJ | LCS<LCL |
| ST106-FD-10624-27042010 | SW8270C | Benzoic acid | µg/L | 60.6 | UJ | LCS<LCL |
| ST106-FD-10624-27042010 | SW8270C | Phenol | µg/L | 2.9 | J | LCS<LCL |
| ST106-FD-10624-27042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-FD-10624-27042010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, CCB<RL |
| ST106-FD-10624-27042010 | SW6010B | Potassium | µg/L | 3280 | J | LCS>UCL |
| ST106-FD-1067-30042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-FD-1067-30042010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-FD-1067-30042010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.078 | J | LCS<LCL, LCSRPD |
| ST106-FD-1067-30042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.036 | J | LCSRPD |
| ST106-FD-1067-30042010 | SW8270C | 4-Nitrophenol | µg/L | 51.3 | UJ | LCS<LCL, LCSD<LCL |
| ST106-FD-1067-30042010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-FD-1067-30042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | LB<RL, CCV<LCL (J) |
| ST106-FD-P-10614-21062010 | SW8270C | 3,3'-Dichlorobenzidine | µg/L | 1100 | R | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8270C | 3-Nitroaniline | µg/L | 2750 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8270C | 4-Chloroaniline | µg/L | 1100 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8270C | 4-Nitroaniline | µg/L | 549 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8270C | Benzidine | µg/L | 8240 | R | LCS<LCL, LCSD<LCL |
| ST106-FD-P-10614-21062010 | SW8270C | Phenol | µg/L | 549 | UJ | LCS<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-FD-P-10614-21062010 | SW8015-P | TPH C6-C10 | mg/L | 93.8 | J | FD>RPD |
| ST106-FD-P-10614-21062010 | SW8310 | Benzo(a)anthracene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | UJ | LCS<LCL |
| ST106-FD-P-10614-21062010 | SW8310 | Naphthalene | µg/L | 292 | J | LCS<LCL |
| ST106-GW-10611-28042010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-10611-28042010 | SW6010B | Potassium | µg/L | 2420 | J | LCS>UCL |
| ST106-GW-10611-28042010 | SW8270C | 4-Nitrophenol | µg/L | 52.1 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10611-28042010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10611-28042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-GW-10611-28042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | LB<RL |
| ST106-GW-10612-29042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-10612-29042010 | E300 | Sulfate | mg/L | 144 | J | Sur>UCL |
| ST106-GW-10612-29042010 | E300 | Chloride | mg/L | 138 | J | Sur>UCL |
| ST106-GW-10612-29042010 | SW8260B | Bromomethane | µg/L | 2 | U | TB<RL, LB<RL |
| ST106-GW-10612-29042010 | SW8270C | 4-Nitrophenol | µg/L | 51.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10612-29042010 | SW8270C | Phenol | µg/L | 10.3 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10612-29042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-GW-10612-29042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | LB<RL, CCV<LCL (J) |
| ST106-GW-1061-30042010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-1061-30042010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.3 | UJ | LCS<LCL |
| ST106-GW-1061-30042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.035 | J | LCSRPD |
| ST106-GW-1061-30042010 | SW6010B | Iron | µg/L | 147 | U | CCB<RL |
| ST106-GW-1061-30042010 | SW8270C | 4-Nitrophenol | µg/L | 51 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1061-30042010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1061-30042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | LB<RL, CCV<LCL (J) |
| ST106-GW-10613-22042010 | SW8270C | 4-Nitrophenol | µg/L | 51.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10613-22042010 | SW8270C | Phenol | µg/L | 10.3 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10613-22042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10613-22042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10613-22042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-10613-22042010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-10613-LF501-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10613-LF501-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10613-LF506-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10613-LF514-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, EB<RL |
| ST106-GW-10613-LF514-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10613-PDB501-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10613-PDB506-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-10613-PDB514-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, EB<RL |
| ST106-GW-10613-PDB514-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10615-28042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL |
| ST106-GW-10615-28042010 | SW6010B | Manganese | µg/L | 1.87 | J | ICB<RL, CCB<RL |
| ST106-GW-10615-28042010 | SW6010B | Potassium | µg/L | 2430 | J | LCS>UCL |
| ST106-GW-10615-28042010 | SW8270C | 4-Nitrophenol | µg/L | 51.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10615-28042010 | SW8270C | Phenol | µg/L | 10.3 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10615-28042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10615-28042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | LB<RL |
| ST106-GW-10616-03052010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10616-03052010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10616-03052010 | SW8270C | 4-Nitrophenol | µg/L | 54.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10616-03052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-10616-03052010 | SW8270C | Phenol | µg/L | 10.9 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10616-03052010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.14 | UJ | LCS<LCL |
| ST106-GW-10616-03052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.19 | U | LB<RL |
| ST106-GW-10617-19042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-19042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-19042010 | SW8270C | 4-Nitrophenol | µg/L | 52.6 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10617-19042010 | SW8270C | Benzoic acid | µg/L | 63.2 | UJ | LCS<LCL |
| ST106-GW-10617-19042010 | SW8270C | Phenol | µg/L | 10.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10617-19042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.22 | U | LB<RL |
| ST106-GW-10617-LF493-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-LF493-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-LF498-2Q10 | SW8260B | Acetone | µg/L | 10 | UJ | ICV<RF |
| ST106-GW-10617-LF498-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-LF509-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-LF509-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-PDB493-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-PDB493-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-PDB498-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-PDB498-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10617-PDB509-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10617-PDB509-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10618-20042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10618-20042010 | SW8270C | 4-Nitrophenol | µg/L | 53.8 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10618-20042010 | SW8270C | Benzoic acid | µg/L | 64.5 | UJ | LCS<LCL |
| ST106-GW-10618-20042010 | SW8270C | bis(2-ethylhexyl)phthalate | µg/L | 4.8 | J | LCS>UCL |
| ST106-GW-10618-20042010 | SW8270C | Di-n-octylphthalate | µg/L | 3.5 | J | LCS>UCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-10618-20042010 | SW8270C | Phenol | µg/L | 10.8 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10618-20042010 | SW8260B | Acetone | µg/L | 50 | UJ | ICV<RF |
| ST106-GW-10618-20042010 | SW8260B | Carbon disulfide | µg/L | 10 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10618-PDB486-2Q10 | SW8260B | Acetone | µg/L | 40.6 | J | ICV<RF |
| ST106-GW-10618-PDB486-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10618-PDB491-2Q10 | SW8260B | Acetone | µg/L | 38.3 | J | ICV<RF |
| ST106-GW-10618-PDB491-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10618-PDB503-2Q10 | SW8260B | Acetone | µg/L | 69.4 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10618-PDB503-2Q10 | SW8260B | Carbon disulfide | µg/L | 10 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10619-20042010 | SW8270C | 4-Nitrophenol | µg/L | 51.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10619-20042010 | SW8270C | Benzoic acid | µg/L | 61.8 | UJ | LCS<LCL |
| ST106-GW-10619-20042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10619-20042010 | SW8011 | 1,2-Dibromoethane(EDB) | µg/L | 0.38 | J | CF>RPD |
| ST106-GW-10619-20042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-10619-20042010 | SW8270C | Phenol | µg/L | 10.3 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10619-20042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10619-PDB505-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, ICV<RF (J) |
| ST106-GW-10619-PDB505-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10619-PDB510-2Q10 | SW8260B | Acetone | µg/L | 10 | UJ | ICV<RF |
| ST106-GW-10619-PDB510-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10619-PDB518-2Q10 | SW8260B | Acetone | µg/L | 10 | UJ | ICV<RF |
| ST106-GW-10619-PDB518-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10620-21042010 | SW8260B | 1,2,4-Trimethylbenzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8260B | 1,3,5-Trimethylbenzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, EB<RL |
| ST106-GW-10620-21042010 | SW8260B | Benzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10620-21042010 | SW8260B | n-Propylbenzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8260B | p,m-Xylene | µg/L | 2 | U | EB>RL |
| ST106-GW-10620-21042010 | SW8260B | Xylene (total) | µg/L | 3 | U | EB>RL |
| ST106-GW-10620-21042010 | SW8270C | 4-Nitrophenol | µg/L | 55.6 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10620-21042010 | SW8270C | Phenol | µg/L | 11.1 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10620-21042010 | SW8310 | 1-Methylnaphthalene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL, EB<RL |
| ST106-GW-10620-21042010 | SW8310 | Naphthalene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-21042010 | SW8015-E | TPH C10-C28 | mg/L | 0.26 | U | EB<RL, Sur>UCL (J) |
| ST106-GW-10620-21042010 | SW6010B | Lead | µg/L | 15 | UJ | ICS<LCL |
| ST106-GW-10620-21042010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, EB<RL |
| ST106-GW-10620-21042010 | SW6010B | Manganese | µg/L | 14.8 | J | ICS<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-10620-21042010 | SW6010B | Manganese | µg/L | 14.8 | U | EB>RL |
| ST106-GW-10620-PDB491-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, EB<RL |
| ST106-GW-10620-PDB491-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10620-PDB496-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL, EB<RL |
| ST106-GW-10620-PDB496-2Q10 | SW8260B | Benzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-PDB496-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10620-PDB507-2Q10 | SW8260B | Benzene | µg/L | 1 | U | EB<RL |
| ST106-GW-10620-PDB507-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, EB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10621-22042010 | SW8270C | 4-Nitrophenol | µg/L | 52.9 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10621-22042010 | SW6010B | Iron | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-10621-22042010 | SW8260B | Dichlorodifluoromethane | µg/L | 2 | UJ | CCV<LCL |
| ST106-GW-10621-22042010 | SW8270C | Phenol | µg/L | 10.6 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10621-22042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10621-PDB467-2Q10 | SW8260B | 1,2,4-Trichlorobenzene | µg/L | 1 | U | LB<RL |
| ST106-GW-10621-PDB467-2Q10 | SW8260B | Dichlorodifluoromethane | µg/L | 2 | UJ | CCV<LCL |
| ST106-GW-10621-PDB472-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10621-PDB472-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10621-PDB482-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10621-PDB482-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10622-26042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-GW-10622-26042010 | SW8270C | 4-Nitrophenol | µg/L | 52.6 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10622-26042010 | SW8270C | Benzoic acid | µg/L | 63.2 | UJ | LCS<LCL |
| ST106-GW-10622-26042010 | SW8270C | Phenol | µg/L | 2.3 | J | LCS<LCL, LCSD<LCL |
| ST106-GW-10622-26042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10622-26042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10622-26042010 | SW8260B | Isopropylbenzene (Cumene) | µg/L | 1.1 | J | LCS>UCL, LCSD>UCL |
| ST106-GW-10622-PDB472-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10622-PDB472-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10622-PDB477-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10622-PDB477-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10622-PDB486-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10622-PDB486-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-1062-30042010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-1062-30042010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.31 | UJ | LCS<LCL |
| ST106-GW-1062-30042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.038 | J | LCSRPD |
| ST106-GW-1062-30042010 | SW8270C | 4-Nitrophenol | µg/L | 51 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1062-30042010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1062-30042010 | SW8015-E | TPH C10-C28 | mg/L | 0.25 | U | LB<RL, CCV<LCL (J) |
| ST106-GW-10623-26042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-10623-26042010 | SW8270C | 4-Nitrophenol | µg/L | 50.8 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10623-26042010 | SW8015-E | TPH C10-C28 | mg/L | 0.058 | J | Sur>UCL |
| ST106-GW-10623-26042010 | SW8270C | Benzoic acid | µg/L | 60.9 | UJ | LCS<LCL |
| ST106-GW-10623-26042010 | SW8270C | Phenol | µg/L | 1.9 | J | LCS<LCL, LCSD<LCL |
| ST106-GW-10623-26042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10623-26042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10623-PDB481-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10623-PDB486-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10623-PDB497-2Q10 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10623-PDB497-2Q10 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10624-27042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10624-27042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J), MS>UCL (J) |
| ST106-GW-10624-27042010 | SW8270C | 4-Nitrophenol | µg/L | 50.5 | UJ | LCS<LCL, MS<LCL, SD<LCL |
| ST106-GW-10624-27042010 | SW8270C | Benzidine | µg/L | 152 | R | MS<LCL, SD<LCL |
| ST106-GW-10624-27042010 | SW8270C | Benzoic acid | µg/L | 60.6 | UJ | LCS<LCL |
| ST106-GW-10624-27042010 | SW8270C | Phenol | µg/L | 3.7 | J | LCS<LCL, MS<LCL, SD<LCL |
| ST106-GW-10624-27042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-GW-10624-27042010 | SW6010B | Iron | µg/L | 108 | U | ICB<RL, SerDil%D (J) |
| ST106-GW-10624-27042010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, CCB<RL |
| ST106-GW-10624-27042010 | SW6010B | Potassium | µg/L | 3320 | J | LCS>UCL |
| ST106-GW-10625-16042010 | SW8270C | 4-Nitrophenol | µg/L | 52.9 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10625-16042010 | SW8270C | Phenol | µg/L | 10.6 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10625-16042010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-10625-16042010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | J | LCS<LCL |
| ST106-GW-10625-16042010 | SW8011 | 1,2-Dibromoethane(EDB) | µg/L | 0.027 | J | Sur<LCL |
| ST106-GW-10625-16042010 | SW6010B | Iron | µg/L | 128 | U | CCB<RL |
| ST106-GW-10626-27042010 | SW8260B | Acetone | µg/L | 10 | U | TB<RL, LB<RL |
| ST106-GW-10626-27042010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-10626-27042010 | SW8260B | Trichloroethene | µg/L | 1 | U | TB<RL |
| ST106-GW-10626-27042010 | SW8270C | 4-Nitrophenol | µg/L | 52.6 | UJ | LCS<LCL |
| ST106-GW-10626-27042010 | SW8270C | Benzoic acid | µg/L | 63.2 | UJ | LCS<LCL |
| ST106-GW-10626-27042010 | SW8270C | Phenol | µg/L | 10.5 | UJ | LCS<LCL |
| ST106-GW-10626-27042010 | SW8310 | 1-Methylnaphthalene | µg/L | 0.11 | J | LCS>UCL |
| ST106-GW-10626-27042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-10627-05052010 | SW8015-E | TPH C10-C28 | mg/L | 0.086 | J | Sur>UCL |
| ST106-GW-10627-05052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-10627-05052010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-10627-05052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-1063-03052010 | SW8270C | 4-Nitrophenol | µg/L | 52.1 | UJ | LCS<LCL, LCSD<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-1063-03052010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1063-03052010 | SW8260B | Carbon disulfide | µg/L | 2 | U | TB<RL, LB<RL, LCS>UCL (J), LCSD>UCL (J) |
| ST106-GW-1063-03052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-1063-03052010 | SW6010B | Manganese, dissolved | µg/L | 0.352 | J | ICB<RL, CCB<RL |
| ST106-GW-1063-03052010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-1063-03052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-1064-05052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-1064-05052010 | SW8260B | 2,2-Dichloropropane | µg/L | 5 | UJ | IC%RSD |
| ST106-GW-1064-05052010 | SW8260B | Bromomethane | µg/L | 2 | UJ | IC%RSD |
| ST106-GW-1064-05052010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1064-05052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-1067-30042010 | SW6010B | Iron | µg/L | 100 | U | CCB<RL |
| ST106-GW-1067-30042010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-1067-30042010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.31 | UJ | LCS<LCL |
| ST106-GW-1067-30042010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.032 | J | LCSRPD |
| ST106-GW-1067-30042010 | SW8270C | 4-Nitrophenol | µg/L | 51.8 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1067-30042010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-1067-30042010 | SW8015-E | TPH C10-C28 | mg/L | 0.25 | U | LB<RL |
| ST106-GW-1069-06052010 | SW8011 | 1,2-Dibromoethane(EDB) | µg/L | 55.6 | J | HTa>UCL |
| ST106-GW-1069-06052010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-2819RC-05052010 | SW8015-E | TPH C10-C28 | mg/L | 0.21 | J | Sur>UCL |
| ST106-GW-2819RC-05052010 | SW8260B | 2,2-Dichloropropane | µg/L | 5 | UJ | IC%RSD |
| ST106-GW-2819RC-05052010 | SW8260B | Bromomethane | µg/L | 2 | U | TB<RL, LB<RL, IC%RSD (J) |
| ST106-GW-2819RC-05052010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-2819RC-05052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | U | LB<RL |
| ST106-GW-3411-03052010 | SW8270C | 4-Nitrophenol | µg/L | 51.8 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-3411-03052010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-3411-03052010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL |
| ST106-GW-3411-03052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-KAFB03-06052010 | SW8270C | Benzoic acid | µg/L | 65.9 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-KAFB03-06052010 | SW8270C | Phenol | µg/L | 11 | UJ | LCS<LCL |
| ST106-GW-KAFB03-06052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |
| ST106-GW-KAFB16-06052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | ICB<RL, CCB<RL |
| ST106-GW-KAFB16-06052010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-KAFB16-06052010 | SW8270C | Benzoic acid | µg/L | 62.5 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-KAFB16-06052010 | SW8270C | Phenol | µg/L | 10.4 | UJ | LCS<LCL |
| ST106-GW-KAFB16-06052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.22 | U | LB<RL |
| ST106-GW-P-10610-14062010 | E300 | Nitrate | mg/L | 10 | U | ICB<RL, CCB<RL |
| ST106-GW-P-10610-14062010 | SW6010B | Iron, dissolved | µg/L | 100 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-P-10610-14062010 | SW8011 | 1,2-Dibromoethane(EDB) | µg/L | 150 | J | CCV>UCL |
| ST106-GW-P-10610-14062010 | SW8260B | 1,2,3-Trichloropropane | µg/L | 76 | UJ | LCS<LCL |
| ST106-GW-P-10610-14062010 | SW8260B | 2-Butanone | µg/L | 604 | J | CCVRRF |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-P-10610-14062010 | SW8260B | Acetone | µg/L | 1610 | J | LCSRPD |
| ST106-GW-P-10610-14062010 | SW8260B | Carbon disulfide | µg/L | 100 | U | TB<RL, LB<RL |
| ST106-GW-P-10610-14062010 | SW8270C | 2,4-Dinitrophenol | µg/L | 3370 | UJ | CCV<LCL |
| ST106-GW-P-10610-14062010 | SW8270C | 4-Nitrophenol | µg/L | 2810 | UJ | LCS<LCL |
| ST106-GW-P-10610-14062010 | SW8270C | Benzoic acid | µg/L | 3370 | UJ | LCS<LCL, CCV<LCL |
| ST106-GW-P-10610-14062010 | SW8310 | Benzo(g,h,i)perylene | µg/L | 0.2 | UJ | LCSD<LCL |
| ST106-GW-P-10610-14062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCS<LCL |
| ST106-GW-P-10610-14062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.15 | UJ | LCSD<LCL |
| ST106-GW-P-10610-14062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.31 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-P-10610-14062010 | SW8270C | Phenol | µg/L | 562 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | 3,3'-Dichlorobenzidine | µg/L | 1110 | R | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | 3-Nitroaniline | µg/L | 2780 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | 4-Chloroaniline | µg/L | 1110 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | 4-Nitroaniline | µg/L | 556 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | Benzidine | µg/L | 8330 | R | LCS<LCL, LCSD<LCL |
| ST106-GW-P-10614-21062010 | SW8270C | Phenol | µg/L | 556 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8015-P | TPH C6-C10 | mg/L | 55.2 | J | FD>RPD |
| ST106-GW-P-10614-21062010 | SW8310 | Benzo(a)anthracene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | UJ | LCS<LCL |
| ST106-GW-P-10614-21062010 | SW8310 | Naphthalene | µg/L | 289 | J | LCS<LCL |
| ST106-GW-P-10628-14062010 | SW8260B | 1,2,3-Trichloropropane | µg/L | 76 | UJ | LCS<LCL |
| ST106-GW-P-10628-14062010 | SW8260B | 2-Butanone | µg/L | 675 | J | CCVRRF |
| ST106-GW-P-10628-14062010 | SW8260B | Acetone | µg/L | 2900 | J | LCSRPD |
| ST106-GW-P-10628-14062010 | SW8260B | Carbon disulfide | µg/L | 100 | U | TB<RL, LB<RL |
| ST106-GW-P-10628-14062010 | E300 | Nitrate | mg/L | 10 | U | ICB<RL, CCB<RL |
| ST106-GW-P-10628-14062010 | SW8011 | 1,2-Dibromoethane(EDB) | µg/L | 188 | J | CCV>UCL |
| ST106-GW-P-10628-14062010 | SW8310 | Benzo(g,h,i)perylene | µg/L | 0.22 | UJ | LCSD<LCL |
| ST106-GW-P-10628-14062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-P-10628-14062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-P-10628-14062010 | SW8270C | 2,4-Dinitrophenol | µg/L | 3300 | UJ | CCV<LCL |
| ST106-GW-P-10628-14062010 | SW8270C | 4-Nitrophenol | µg/L | 2750 | UJ | LCS<LCL |
| ST106-GW-P-10628-14062010 | SW8270C | Benzoic acid | µg/L | 3300 | UJ | LCS<LCL, CCV<LCL |
| ST106-GW-P-10628-14062010 | SW8270C | Phenol | µg/L | 549 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8260B | 1,2,3-Trichloropropane | µg/L | 30.4 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8260B | 1,2,4-Trimethylbenzene | µg/L | 562 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | 1,2-Dibromoethane(EDB) | µg/L | 120 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8310 | Benzo(a)anthracene | µg/L | 3.4 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 3.4 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 2.5 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 5 | UJ | LCS<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-P-1065-16062010 | SW8310 | Naphthalene | µg/L | 9640 | J | LCS<LCL |
| ST106-GW-P-1065-16062010 | E300 | Nitrate | mg/L | 10 | U | CCB<RL |
| ST106-GW-P-1065-16062010 | SW6010B | Lead, dissolved | µg/L | 5.31 | J | CCB<RL |
| ST106-GW-P-1065-16062010 | SW8260B | 1,3,5-Trimethylbenzene | µg/L | 241 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | 2-Butanone | µg/L | 282 | J | CCVRRF, Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | Acetone | µg/L | 1410 | J | LCSRPD |
| ST106-GW-P-1065-16062010 | SW8260B | Carbon disulfide | µg/L | 40 | U | TB<RL, LB<RL, Sur>UCL (J) |
| ST106-GW-P-1065-16062010 | SW8260B | Ethylbenzene | µg/L | 474 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | Isopropylbenzene (Cumene) | µg/L | 87.2 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | Naphthalene | µg/L | 440 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | n-Butylbenzene | µg/L | 88.3 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | n-Propylbenzene | µg/L | 122 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | o-Xylene | µg/L | 732 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | p,m-Xylene | µg/L | 1710 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | sec-Butylbenzene | µg/L | 59.1 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8260B | Xylene (total) | µg/L | 2440 | J | Sur>UCL |
| ST106-GW-P-1065-16062010 | SW8270C | 2,4-Dinitrophenol | µg/L | 6120 | UJ | CCV<LCL |
| ST106-GW-P-1065-16062010 | SW8270C | 4-Nitrophenol | µg/L | 5100 | UJ | LCS<LCL |
| ST106-GW-P-1065-16062010 | SW8270C | Benzidine | µg/L | 15300 | UJ | ICVS<%D |
| ST106-GW-P-1065-16062010 | SW8270C | Benzoic acid | µg/L | 6120 | UJ | CCV<LCL |
| ST106-GW-P-1065-16062010 | SW8270C | Phenol | µg/L | 605 | J | LCS<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 1,2 Diphenylhydrazine | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 1,2-Dichlorobenzene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4,5-Trichlorophenol | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4,6-Trichlorophenol | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4-Dichlorophenol | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4-Dimethylphenol | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4-Dinitrophenol | µg/L | 122 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,4-Dinitrotoluene | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2,6-Dinitrotoluene | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Chloronaphthalene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Chlorophenol | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Methyl-4,6-dinitrophenol | µg/L | 122 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Methylnaphthalene | µg/L | 33 | J | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Methylphenol (o-Cresol) | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Nitroaniline | µg/L | 102 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 2-Nitrophenol | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 3,3'-Dichlorobenzidine | µg/L | 40.8 | R | LCS<LCL, Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 3-Nitroaniline | µg/L | 102 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Bromophenyl-phenylether | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Chloro-3-methylphenol | µg/L | 40.8 | UJ | Sur<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-P-1066-21062010 | SW8270C | 4-Chloroaniline | µg/L | 40.8 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Chlorophenyl-phenylether | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Methylphenol | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Nitroaniline | µg/L | 20.4 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | 4-Nitrophenol | µg/L | 102 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Acenaphthene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Acenaphthylene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Anthracene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzidine | µg/L | 306 | R | LCS<LCL, LCSD<LCL, Sur<LCL (UJ) |
| ST106-GW-P-1066-21062010 | SW8270C | Benzo(a)anthracene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzo(a)pyrene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzo(b)fluoranthene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzo(g,h,i)perylene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzo(k)fluoranthene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Benzoic acid | µg/L | 122 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Bis(2-Chloroethoxy)methane | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Bis(2-Chloroethyl)ether | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | bis(2-ethylhexyl)phthalate | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Butylbenzylphthalate | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Chrysene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Dibenz(a,h)anthracene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Dibenzofuran | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Diethylphthalate | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Dimethyl-phthalate | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Di-n-butylphthalate | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Di-n-octylphthalate | µg/L | 4.5 | J | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Fluoranthene | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Fluorene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Hexachlorobenzene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Hexachlorobutadiene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Hexachlorocyclopentadiene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Hexachloroethane | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Indeno(1,2,3-cd)pyrene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Naphthalene | µg/L | 83.2 | J | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Nitrobenzene | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | N-Nitroso-di-n-propylamine | µg/L | 40.8 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | N-Nitrosodiphenylamine | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Pentachlorophenol | µg/L | 122 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Phenanthrene | µg/L | 20.4 | UJ | Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Phenol | µg/L | 20.4 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1066-21062010 | SW8270C | Pyrene | µg/L | 20.4 | UJ | Sur<LCL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-P-1066-21062010 | SW8310 | Benzo(a)anthracene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-1066-21062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-1066-21062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL |
| ST106-GW-P-1066-21062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | UJ | LCS<LCL |
| ST106-GW-P-1066-21062010 | SW8310 | Naphthalene | µg/L | 142 | J | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | 3,3'-Dichlorobenzidine | µg/L | 105 | R | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | 3-Nitroaniline | µg/L | 263 | UJ | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | 4-Chloroaniline | µg/L | 105 | UJ | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | 4-Nitroaniline | µg/L | 52.6 | UJ | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | Benzidine | µg/L | 789 | R | LCS<LCL, LCSD<LCL |
| ST106-GW-P-1068-21062010 | SW8270C | Phenol | µg/L | 52.6 | UJ | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Acenaphthene | µg/L | 1.1 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Acenaphthylene | µg/L | 1.1 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Anthracene | µg/L | 0.32 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Benzo(a)anthracene | µg/L | 0.21 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Benzo(a)pyrene | µg/L | 0.21 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 0.055 | J | LCS<LCL, Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Benzo(g,h,i)perylene | µg/L | 0.21 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL, Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Chrysene | µg/L | 0.21 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.094 | J | LCS<LCL, Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Fluoranthene | µg/L | 0.43 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Fluorene | µg/L | 0.32 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Naphthalene | µg/L | 151 | J | LCS<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Phenanthrene | µg/L | 0.32 | UJ | Sur<LCL |
| ST106-GW-P-1068-21062010 | SW8310 | Pyrene | µg/L | 0.21 | UJ | Sur<LCL |
| ST106-GW-P-1069-16062010 | SW8310 | Benzo(a)anthracene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8310 | Benzo(b)fluoranthene | µg/L | 0.22 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8310 | Benzo(k)fluoranthene | µg/L | 0.16 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8310 | Dibenz(a,h)anthracene | µg/L | 0.33 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8310 | Naphthalene | µg/L | 170 | J | LCS<LCL |
| ST106-GW-P-1069-16062010 | E300 | Nitrate | mg/L | 10 | U | CCB<RL |
| ST106-GW-P-1069-16062010 | SW6010B | Manganese, dissolved | µg/L | 2580 | J | PDS<LCL |
| ST106-GW-P-1069-16062010 | SW6010B | Lead, dissolved | µg/L | 4.31 | J | CCB<RL |
| ST106-GW-P-1069-16062010 | SW8260B | 1,2,3-Trichloropropane | µg/L | 76 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8260B | 2-Butanone | µg/L | 300 | UJ | CCVRRF |
| ST106-GW-P-1069-16062010 | SW8260B | Acetone | µg/L | 500 | U | TB<RL, LB<RL, LCSRPD (J) |
| ST106-GW-P-1069-16062010 | SW8260B | Carbon disulfide | µg/L | 100 | U | TB<RL, LB<RL |
| ST106-GW-P-1069-16062010 | SW8270C | 4-Nitrophenol | µg/L | 510 | UJ | LCS<LCL |
| ST106-GW-P-1069-16062010 | SW8270C | Phenol | µg/L | 102 | UJ | LCS<LCL |
| ST106-GW-VA2-06052010 | SW6010B | Iron, dissolved | µg/L | 100 | U | ICB<RL, CCB<RL |

## Table B-3. Summary of Data Qualification for Groundwater and Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| NativeID<br>Site – Media – Location - ddmmyyyy | Method | Analyte | Units | Final Result | Validation Flag | Validation Reason |
|---|---|---|---|---|---|---|
| ST106-GW-VA2-06052010 | E300 | Nitrate | mg/L | 10 | U | LB<RL, ICB<RL, CCB<RL |
| ST106-GW-VA2-06052010 | SW8270C | Benzoic acid | µg/L | 61.2 | UJ | LCS<LCL, LCSD<LCL |
| ST106-GW-VA2-06052010 | SW8270C | Phenol | µg/L | 10.2 | UJ | LCS<LCL |
| ST106-GW-VA2-06052010 | SW8310 | Indeno(1,2,3-cd)pyrene | µg/L | 0.21 | U | LB<RL |

Validation Reasons:

| | |
|---|---|
| CCB<RL | The analyte was detected in the continuing calibration blank at a concentration less than the reporting limit. |
| CCV<LCL | The continuing calibration verification was recovered less than method criteria. |
| CCV>UCL | The continuing calibration verification was recovered greater than method criteria. |
| CCVRRF | The continuing calibration verification relative response factor exceeded method criteria. |
| CF>RPD | The confirmation relative percent difference exceeded criteria. |
| EB<RL | The analyte was detected in the equipment blank at a concentration less than the reporting limit. |
| EB>RL | The analyte was detected in the equipment blank at a concentration greater than the reporting limit. |
| FD>RPD | The FD relative percent difference exceeded criteria. |
| HTa>UCL | The analytical holding time exceeded method criteria. |
| ICB<RL | The analyte was detected in the initial calibration blank at a concentration less than the reporting limit. |
| IC%RSD | The initial calibration relative standard deviation exceeded criteria. |
| ICS<LCL | The interference check standard was less than lower control limits |
| ICV<RF | The initial calibration verification relative response factor was less than method criteria. |
| ICVS<LCL | The initial calibration verification was recovered less than method criteria. |
| LB<RL | The analyte was detected in the method blank at a concentration less than the reporting limit. |
| LCS<LCL | The laboratory control sample was recovered less than the lower control limit. |
| LCS>UCL | The laboratory control sample was recovered greater than the upper control limit. |
| LCSD>UCL | The laboratory control sample duplicate was recovered greater than the upper control limit. |
| LCSD<LCL | The laboratory control sample duplicate was recovered less than lower control limit. |
| LCSRPD | The LCS/LCSD relative percent difference exceeded criteria. |
| MS<LCL | The matrix spike recovered less than the lower control limit. |
| PDS<LCL | The post-digestion spike recovered less than the lower control limit. |
| SD<LCL | The matrix spike duplicate recovered less than the lower control limit. |
| SerDil% | The serial dilution relative percent difference exceeded control limits. |
| Sur<LCL | The surrogate was recovered less than the project specific criteria. |
| Sur>UCL | The surrogate was recovered greater than the project specific criteria. |
| TB<RL | The analyte was detected in the trip blank at a concentration less than the reporting limit. |

Validation Flags:

| | |
|---|---|
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| U | The analyte was not detected above the sample quantitation limit. |
| UJ | Analyte was not detected above the reported sample quantitation limit; the associated quantitation limit is approximate and may not accurately represent the analytical concentration. |
| R | The sample result was rejected due to serious deficiencies in the ability to analyze the sample and meet the QC criteria. The presence or absence of the analyte could not be verified. |

Units:

| | |
|---|---|
| µg/L | microgram per liter |
| mg/L | milligram per liter |
| ppbv | parts per billion volume |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Chloride | 35.5 | 0.34 | 1 | MG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Sulfate | 54 | 0.32 | 1 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chloride | 11.8 | 0.34 | 1 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Nitrate | 0.4 J | 0.036 | 10 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Sulfate | 33.4 | 0.32 | 1 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chloride | 13.3 | 0.34 | 1 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Nitrate | 0.14 J | 0.036 | 10 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Sulfate | 30.5 | 0.32 | 1 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chloride | 8.4 | 0.34 | 1 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Sulfate | 29.4 | 0.32 | 1 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Chloride | 138 J | 1.7 | 5 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Nitrate | 5.4 J | 0.036 | 10 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Sulfate | 144 J | 1.6 | 5 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chloride | 13 | 0.34 | 1 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Nitrate | 0.086 J | 0.036 | 10 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Sulfate | 29.6 | 0.32 | 1 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chloride | 20.1 | 0.34 | 1 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Sulfate | 30.7 | 0.32 | 1 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chloride | 20.4 | 0.34 | 1 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | Nitrate | 0.38 J | 0.036 | 10 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| E300 | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Sulfate | 28 | 0.32 | 1 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chloride | 7 | 0.34 | 1 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Nitrate | 0.15 J | 0.036 | 10 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Sulfate | 25.6 | 0.32 | 1 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chloride | 11.3 | 0.34 | 1 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | Nitrate | 0.28 J | 0.036 | 10 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | Sulfate | 34.7 | 0.32 | 1 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chloride | 45.1 | 0.34 | 1 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Nitrate | 0.057 J | 0.036 | 10 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Sulfate | 49.6 | 0.32 | 1 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chloride | 12.2 | 0.34 | 1 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Nitrate | 0.084 J | 0.036 | 10 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Sulfate | 35.3 | 0.32 | 1 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chloride | 55.4 | 0.34 | 1 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Sulfate | 53.9 | 0.32 | 1 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chloride | 63 | 0.34 | 1 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Nitrate | 0.35 J | 0.036 | 10 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Sulfate | 48 | 0.32 | 1 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chloride | 12.3 | 0.34 | 1 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Nitrate | 0.056 J | 0.036 | 10 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Sulfate | 37.2 | 0.32 | 1 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chloride | 15.4 | 0.34 | 1 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| E300 | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | Nitrate | 0.42 J | 0.036 | 10 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | Sulfate | 37.2 | 0.32 | 1 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chloride | 10 | 0.34 | 1 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | Nitrate | 0.17 J | 0.036 | 10 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | Sulfate | 29.4 | 0.32 | 1 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chloride | 35.7 | 0.34 | 1 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Sulfate | 53.5 | 0.32 | 1 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chloride | 12.3 | 0.34 | 1 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Nitrate | 0.18 J | 0.036 | 10 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Sulfate | 45.8 | 0.32 | 1 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chloride | 66.9 | 0.34 | 1 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Nitrate | 2.2 J | 0.036 | 10 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Sulfate | 73.6 | 0.32 | 1 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chloride | 9.7 | 0.34 | 1 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Nitrate | 0.2 J | 0.036 | 10 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Sulfate | 29.8 | 0.32 | 1 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chloride | 97.9 | 3.4 | 10 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Nitrate | 3.1 J | 0.036 | 10 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Sulfate | 166 | 3.2 | 10 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chloride | 35.1 | 0.34 | 1 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Nitrate | 2 J | 0.036 | 10 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Sulfate | 77.4 | 0.32 | 1 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Chloride | 11.6 | 0.34 | 1 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | Nitrate | 0.39 J | 0.036 | 10 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | Sulfate | 32.7 | 0.32 | 1 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | Chloride | 26 | 0.34 | 1 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | Sulfate | 25.3 | 0.32 | 1 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chloride | 17.4 | 0.34 | 1 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Nitrate | 1 J | 0.036 | 10 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Sulfate | 27.3 | 0.32 | 1 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chloride | 11.6 | 0.34 | 1 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Nitrate | 0.22 J | 0.036 | 10 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Sulfate | 31.2 | 0.32 | 1 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chloride | 26.2 | 0.34 | 1 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Nitrate | 0.57 J | 0.036 | 10 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Sulfate | 35.8 | 0.32 | 1 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chloride | 53 | 0.34 | 1 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Sulfate | 32 | 0.32 | 1 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chloride | 33.3 | 0.34 | 1 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Sulfate | 47.8 | 0.32 | 1 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chloride | 13.2 | 0.34 | 1 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Nitrate | 0.14 J | 0.036 | 10 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | Sulfate | 30.2 | 0.32 | 1 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chloride | 13.9 | 0.34 | 1 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Sulfate | 37.2 | 0.32 | 1 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chloride | 133 | 3.4 | 10 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Sulfate | 173 | 3.2 | 10 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chloride | 12.6 | 0.34 | 1 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Nitrate | 0.056 J | 0.036 | 10 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Sulfate | 22.4 | 0.32 | 1 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chloride | 13 | 0.34 | 1 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Nitrate | 0.052 J | 0.036 | 10 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Sulfate | 28 | 0.32 | 1 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chloride | 25.1 | 0.34 | 1 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Sulfate | 29.8 | 0.32 | 1 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chloride | 30.2 | 0.34 | 1 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Nitrate | 10 U | 0.036 | 10 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Sulfate | 25.3 | 0.32 | 1 | MG/L |
| **E310.1** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Alkalinity, Bicarbonate | 146 | 0.5 | 5 | MG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Alkalinity, Total | 146 | 0.5 | 5 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Alkalinity, Bicarbonate | 182 | 0.5 | 5 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Alkalinity, Total | 182 | 0.5 | 5 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Alkalinity, Bicarbonate | 252 | 0.5 | 25 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Alkalinity, Total | 252 | 0.5 | 25 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Alkalinity, Bicarbonate | 118 | 0.5 | 5 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | Alkalinity, Total | 118 | 0.5 | 5 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Alkalinity, Bicarbonate | 178 | 0.5 | 5 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | Alkalinity, Total | 178 | 0.5 | 5 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Alkalinity, Bicarbonate | 158 | 0.5 | 5 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | Alkalinity, Total | 158 | 0.5 | 5 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Alkalinity, Bicarbonate | 112 | 0.5 | 5 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | Alkalinity, Total | 112 | 0.5 | 5 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | Alkalinity, Bicarbonate | 110 | 0.5 | 5 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | Alkalinity, Total | 110 | 0.5 | 5 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Alkalinity, Bicarbonate | 130 | 0.5 | 5 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | Alkalinity, Total | 130 | 0.5 | 5 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| E310.1 | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | Alkalinity, Bicarbonate | 126 | 0.5 | 20 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 20 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | Alkalinity, Total | 126 | 0.5 | 20 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Alkalinity, Bicarbonate | 150 | 0.5 | 20 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 20 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | Alkalinity, Total | 150 | 0.5 | 20 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Alkalinity, Bicarbonate | 134 | 0.5 | 20 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 20 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | Alkalinity, Total | 134 | 0.5 | 20 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Alkalinity, Bicarbonate | 134 | 0.5 | 20 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Alkalinity, Carbonate | 134 | 0.5 | 20 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | Alkalinity, Total | 134 | 0.5 | 20 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Alkalinity, Bicarbonate | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | Alkalinity, Total | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Alkalinity, Bicarbonate | 132 | 0.5 | 5 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | Alkalinity, Total | 132 | 0.5 | 5 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | Alkalinity, Bicarbonate | 130 | 0.5 | 5 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | Alkalinity, Total | 130 | 0.5 | 5 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | Alkalinity, Bicarbonate | 115 | 0.5 | 5 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| E310.1 | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | Alkalinity, Total | 115 | 0.5 | 5 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Alkalinity, Bicarbonate | 150 | 0.5 | 5 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | Alkalinity, Total | 150 | 0.5 | 5 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Alkalinity, Bicarbonate | 108 | 0.5 | 20 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 20 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | Alkalinity, Total | 108 | 0.5 | 20 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Alkalinity, Bicarbonate | 101 | 0.5 | 5 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | Alkalinity, Total | 101 | 0.5 | 5 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Alkalinity, Bicarbonate | 110 | 0.5 | 5 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | Alkalinity, Total | 110 | 0.5 | 5 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Alkalinity, Bicarbonate | 94 | 0.5 | 5 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | Alkalinity, Total | 94 | 0.5 | 5 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Alkalinity, Bicarbonate | 106 | 0.5 | 5 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | Alkalinity, Total | 106 | 0.5 | 5 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | Alkalinity, Bicarbonate | 178 | 0.5 | 5 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | Alkalinity, Total | 178 | 0.5 | 5 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | Alkalinity, Bicarbonate | 206 | 0.5 | 5 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | |
| | ST106-GW-1069-06052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | Alkalinity, Total | 206 | 0.5 | 5 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Alkalinity, Bicarbonate | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Alkalinity, Total | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Alkalinity, Bicarbonate | 138 | 0.5 | 5 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | Alkalinity, Total | 138 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Alkalinity, Bicarbonate | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Alkalinity, Total | 114 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Alkalinity, Bicarbonate | 98 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Alkalinity, Total | 98 | 0.5 | 5 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Alkalinity, Bicarbonate | 122 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Alkalinity, Total | 122 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Alkalinity, Bicarbonate | 262 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Alkalinity, Total | 262 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Alkalinity, Bicarbonate | 162 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Alkalinity, Total | 162 | 0.5 | 25 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | Alkalinity, Bicarbonate | 160 | 0.5 | 5 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Alkalinity, Total | 160 | 0.5 | 5 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Alkalinity, Bicarbonate | 158 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Alkalinity, Total | 158 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Alkalinity, Bicarbonate | 172 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Alkalinity, Total | 172 | 0.5 | 25 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Alkalinity, Bicarbonate | 204 | 0.5 | 5 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Alkalinity, Total | 204 | 0.5 | 5 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Alkalinity, Bicarbonate | 150 | 0.5 | 5 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Alkalinity, Carbonate | 0 | 0.5 | 5 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Alkalinity, Total | 150 | 0.5 | 5 | MG/L |
| **SW6010B** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Calcium | 61700 | 39 | 100 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Magnesium | 10500 | 9.8 | 100 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Manganese | 1320 | 0.35 | 10 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Potassium | 3280 J | 71.7 | 500 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Sodium | 29300 | 180 | 300 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Calcium | 55900 | 39 | 100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Magnesium | 8260 | 9.8 | 100 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Manganese | 37.4 | 0.35 | 10 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Potassium | 2620 | 71.7 | 500 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Sodium | 27200 | 180 | 300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Calcium, dissolved | 80200 | 39 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Iron, dissolved | 111 | 5.5 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Lead, dissolved | 4.16 J | 3.7 | 15 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Magnesium, dissolved | 12200 | 9.8 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Manganese, dissolved | 434 | 0.35 | 10 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Potassium, dissolved | 3380 | 71.7 | 500 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Sodium, dissolved | 33800 | 180 | 300 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Calcium | 38200 | 39 | 100 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Magnesium | 5600 | 9.8 | 100 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Manganese | 10 U | 0.35 | 10 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Potassium | 2420 J | 71.7 | 500 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Sodium | 24800 | 180 | 300 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Calcium | 137000 | 39 | 100 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | Magnesium | 22100 | 9.8 | 100 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Manganese | 203 | 0.35 | 10 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Potassium | 4350 | 71.7 | 500 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Sodium | 39700 | 180 | 300 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Calcium | 47000 | 39 | 100 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Iron | 147 U | 5.5 | 100 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Magnesium | 7340 | 9.8 | 100 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Manganese | 211 | 0.35 | 10 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Potassium | 2460 | 71.7 | 500 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Sodium | 23400 | 180 | 300 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Calcium | 41000 | 39 | 100 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Lead | 5.74 J | 3.7 | 15 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Magnesium | 5900 | 9.8 | 100 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Manganese | 2.58 J | 0.35 | 10 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Potassium | 2160 | 71.7 | 500 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Sodium | 21400 | 180 | 300 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Calcium | 42400 | 39 | 100 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Magnesium | 5680 | 9.8 | 100 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Manganese | 1.87 J | 0.35 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Potassium | 2430 J | 71.7 | 500 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Sodium | 22200 | 180 | 300 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Calcium, dissolved | 39600 | 39 | 100 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Magnesium, dissolved | 6210 | 9.8 | 100 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Manganese, dissolved | 15.6 | 0.35 | 10 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Potassium, dissolved | 2490 | 71.7 | 500 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Sodium, dissolved | 22800 | 180 | 300 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Calcium | 41300 | 39 | 100 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Iron | 108 | 5.5 | 100 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Magnesium | 6020 | 9.8 | 100 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Manganese | 5.6 J | 0.35 | 10 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Potassium | 2320 | 71.7 | 500 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Sodium | 23900 | 180 | 300 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Calcium | 59900 | 39 | 100 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Iron | 196 | 5.5 | 100 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Magnesium | 9380 | 9.8 | 100 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Manganese | 1110 | 0.35 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Potassium | 2940 | 71.7 | 500 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Sodium | 28200 | 180 | 300 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | Calcium | 42800 | 39 | 100 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Lead | 5.47 J | 3.7 | 15 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Magnesium | 6150 | 9.8 | 100 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Manganese | 2.99 J | 0.35 | 10 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Potassium | 2410 | 71.7 | 500 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Sodium | 24600 | 180 | 300 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Calcium | 62400 | 39 | 100 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Lead | 15 UJ | 3.7 | 15 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Magnesium | 9660 | 9.8 | 100 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Manganese | 14.8 U | 0.35 | 10 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Potassium | 2930 | 71.7 | 500 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Sodium | 27900 | 180 | 300 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Calcium | 60100 | 39 | 100 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Lead | 3.94 J | 3.7 | 15 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Magnesium | 8760 | 9.8 | 100 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Manganese | 42.5 | 0.35 | 10 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Potassium | 2900 | 71.7 | 500 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Sodium | 28700 | 180 | 300 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Calcium | 43900 | 39 | 100 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | Lead | 4.51 J | 3.7 | 15 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Magnesium | 6220 | 9.8 | 100 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Manganese | 110 | 0.35 | 10 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Potassium | 2800 | 71.7 | 500 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Sodium | 25700 | 180 | 300 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Calcium | 43600 | 39 | 100 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Magnesium | 6710 | 9.8 | 100 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Manganese | 13.3 | 0.35 | 10 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Potassium | 2590 | 71.7 | 500 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Sodium | 22800 | 180 | 300 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Calcium | 35200 | 39 | 100 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Lead | 4.75 J | 3.7 | 15 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Magnesium | 4820 | 9.8 | 100 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Manganese | 2.61 J | 0.35 | 10 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Potassium | 2320 | 71.7 | 500 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Sodium | 27200 | 180 | 300 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Calcium | 62100 | 39 | 100 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Iron | 108 U | 5.5 | 100 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Lead | 4.47 J | 3.7 | 15 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Magnesium | 10500 | 9.8 | 100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | Manganese | 1340 | 0.35 | 10 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Potassium | 3320 J | 71.7 | 500 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Sodium | 29400 | 180 | 300 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Calcium | 38900 | 39 | 100 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Iron | 128 U | 5.5 | 100 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Magnesium | 5750 | 9.8 | 100 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Manganese | 10.5 | 0.35 | 10 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Potassium | 2450 | 71.7 | 500 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Sodium | 25300 | 180 | 300 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Calcium | 63100 | 39 | 100 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Magnesium | 9420 | 9.8 | 100 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Manganese | 484 | 0.35 | 10 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Potassium | 6320 | 71.7 | 500 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Sodium | 37100 | 180 | 300 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Calcium, dissolved | 33600 | 39 | 100 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Lead, dissolved | 4.17 J | 3.7 | 15 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Magnesium, dissolved | 5230 | 9.8 | 100 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Manganese, dissolved | 269 | 0.35 | 10 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Potassium, dissolved | 3470 | 71.7 | 500 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | Sodium, dissolved | 22600 | 180 | 300 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Calcium, dissolved | 98600 | 39 | 100 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Magnesium, dissolved | 15600 | 9.8 | 100 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Manganese, dissolved | 0.352 J | 0.35 | 10 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Potassium, dissolved | 4060 | 71.7 | 500 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Sodium, dissolved | 48400 | 180 | 300 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Calcium, dissolved | 55800 | 39 | 100 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Magnesium, dissolved | 8870 | 9.8 | 100 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Manganese, dissolved | 10 U | 0.35 | 10 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Potassium, dissolved | 3000 | 71.7 | 500 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Sodium, dissolved | 26400 | 180 | 300 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Calcium | 56600 | 39 | 100 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Iron | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Lead | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Magnesium | 8160 | 9.8 | 100 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Manganese | 36.5 | 0.35 | 10 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Potassium | 2580 | 71.7 | 500 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Sodium | 27900 | 180 | 300 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Calcium, dissolved | 67900 | 39 | 100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-1069-06052010 | WATER | N | Iron, dissolved | 909 | 5.5 | 100 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Magnesium, dissolved | 11200 | 9.8 | 100 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Manganese, dissolved | 2100 | 0.35 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Potassium, dissolved | 3380 | 71.7 | 500 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Sodium, dissolved | 30600 | 180 | 300 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Calcium, dissolved | 39900 | 39 | 100 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Lead, dissolved | 4.71 J | 3.7 | 15 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Magnesium, dissolved | 5280 | 9.8 | 100 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Manganese, dissolved | 10 U | 0.35 | 10 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Potassium, dissolved | 2360 | 71.7 | 500 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Sodium, dissolved | 21800 | 180 | 300 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Calcium, dissolved | 42600 | 39 | 100 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Magnesium, dissolved | 6700 | 9.8 | 100 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Manganese, dissolved | 32.5 | 0.35 | 10 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Potassium, dissolved | 2500 | 71.7 | 500 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Sodium, dissolved | 24100 | 180 | 300 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Calcium, dissolved | 44700 | 39 | 100 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | Magnesium, dissolved | 5950 | 9.8 | 100 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Manganese, dissolved | 10 U | 0.35 | 10 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Potassium, dissolved | 2410 | 71.7 | 500 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Sodium, dissolved | 24300 | 180 | 300 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Calcium, dissolved | 46100 | 39 | 100 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Magnesium, dissolved | 5460 | 9.8 | 100 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Manganese, dissolved | 6.67 J | 0.35 | 10 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Potassium, dissolved | 3700 | 71.7 | 500 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Sodium, dissolved | 29700 | 180 | 300 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Calcium, dissolved | 57100 | 39 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Lead, dissolved | 5.74 J | 3.7 | 15 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Magnesium, dissolved | 8160 | 9.8 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Manganese, dissolved | 543 | 0.35 | 10 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Potassium, dissolved | 2790 | 71.7 | 500 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Sodium, dissolved | 27500 | 180 | 300 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Calcium, dissolved | 76600 | 39 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Iron, dissolved | 99.8 J | 5.5 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Lead, dissolved | 5.49 J | 3.7 | 15 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Magnesium, dissolved | 11600 | 9.8 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Manganese, dissolved | 399 | 0.35 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | Potassium, dissolved | 3220 | 71.7 | 500 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Sodium, dissolved | 32300 | 180 | 300 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Calcium, dissolved | 51800 | 39 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Magnesium, dissolved | 7720 | 9.8 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Manganese, dissolved | 574 | 0.35 | 10 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Potassium, dissolved | 3340 | 71.7 | 500 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Sodium, dissolved | 27300 | 180 | 300 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Calcium, dissolved | 128000 | 39 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Iron, dissolved | 91.4 J | 5.5 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Lead, dissolved | 5.31 J | 3.7 | 15 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Magnesium, dissolved | 19400 | 9.8 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Manganese, dissolved | 2560 | 0.35 | 10 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Potassium, dissolved | 4870 | 71.7 | 500 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Sodium, dissolved | 64400 | 180 | 300 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Calcium, dissolved | 47800 | 39 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Iron, dissolved | 62.1 J | 5.5 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Magnesium, dissolved | 7470 | 9.8 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Manganese, dissolved | 469 | 0.35 | 10 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Potassium, dissolved | 2580 | 71.7 | 500 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Sodium, dissolved | 27600 | 180 | 300 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | Calcium, dissolved | 52900 | 39 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Iron, dissolved | 183 | 5.5 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Lead, dissolved | 15 U | 3.7 | 15 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Magnesium, dissolved | 8270 | 9.8 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Manganese, dissolved | 938 | 0.35 | 10 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Potassium, dissolved | 2680 | 71.7 | 500 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Sodium, dissolved | 28000 | 180 | 300 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Calcium, dissolved | 61400 | 39 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Iron, dissolved | 161 | 5.5 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Lead, dissolved | 4.31 J | 3.7 | 15 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Magnesium, dissolved | 9670 | 9.8 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Manganese, dissolved | 2580 J | 0.35 | 10 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Potassium, dissolved | 3280 | 71.7 | 500 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Sodium, dissolved | 27400 | 180 | 300 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Calcium, dissolved | 37100 | 39 | 100 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Iron, dissolved | 100 U | 5.5 | 100 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Lead, dissolved | 5.2 J | 3.7 | 15 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Magnesium, dissolved | 7420 | 9.8 | 100 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Manganese, dissolved | 17.6 | 0.35 | 10 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Potassium, dissolved | 3870 | 71.7 | 500 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Sodium, dissolved | 23200 | 180 | 300 | UG/L |
| **SW8011** | | | | | | | | |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | | |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dibromoethane | 0.15 | 0.00806 | 0.02 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dibromoethane | 503 | 16.2 | 39.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00804 | 0.02 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dibromoethane | 0.065 | 0.00815 | 0.02 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00808 | 0.02 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00815 | 0.02 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dibromoethane | 1.4 | 0.0799 | 0.195 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dibromoethane | 1.1 | 0.0404 | 0.0986 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dibromoethane | 1.1 | 0.0406 | 0.0992 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.0402 | 0.098 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dibromoethane | 0.93 | 0.0409 | 0.02 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dibromoethane | 0.86 | 0.041 | 0.1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dibromoethane | 1.1 | 0.041 | 0.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dibromoethane | 4.2 | 0.164 | 0.399 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 2.2 | 0.0813 | 0.198 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dibromoethane | 1.8 | 0.0806 | 0.197 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dibromoethane | 0.78 | 0.0405 | 0.0989 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dibromoethane | 0.38 J | 0.0403 | 0.0983 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dibromoethane | 0.63 | 0.041 | 0.1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dibromoethane | 0.7 | 0.0408 | 0.0994 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dibromoethane | 0.64 | 0.0402 | 0.098 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dibromoethane | 0.32 | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dibromoethane | 0.29 | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dibromoethane | 0.27 | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dibromoethane | 0.33 | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dibromoethane | 0.94 | 0.0408 | 0.0994 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dibromoethane | 1.3 | 0.041 | 0.1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dibromoethane | 1.2 | 0.041 | 0.1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 1.2 | 0.0403 | 0.0983 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00808 | 0.02 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | | |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00813 | 0.02 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dibromoethane | 0.13 | 0.00802 | 0.02 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dibromoethane | 0.027 J | 0.00813 | 0.02 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dibromoethane | 0.07 | 0.0082 | 0.02 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dibromoethane | 0.067 | 0.00806 | 0.02 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dibromoethane | 0.059 | 0.00811 | 0.02 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00799 | 0.02 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.0082 | 0.02 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00811 | 0.02 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dibromoethane | 55.6 J | 1.6 | 3.9 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00806 | 0.02 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00818 | 0.02 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00811 | 0.02 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dibromoethane | 150 J | 8.2 | 20 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dibromoethane | 417 | 16.3 | 39.7 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dibromoethane | 188 J | 8.1 | 19.8 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dibromoethane | 143 | 8.2 | 20 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dibromoethane | 204 | 8.1 | 19.8 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dibromoethane | 364 | 8.2 | 19.9 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dibromoethane | 90.3 | 4.1 | 10 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dibromoethane | 0.02 U | 0.00813 | 0.02 | UG/L |
| **SW8015-E** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | TPH C10-C28 | 0.38 | 0.050505 | 0.25 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | TPH C10-C28 | 0.26 U | 0.05102 | 0.26 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | TPH C10-C28 | 150 | 2.7 | 13.7 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05128 | 0.26 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05102 | 0.26 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05102 | 0.26 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | TPH C10-C28 | 0.068 J | 0.05435 | 0.27 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.051545 | 0.26 | MG/L |
| | ST106-GW-10616-03052010 | WATER | N | TPH C10-C28 | 0.24 U | 0.04717 | 0.24 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | TPH C10-C28 | 0.11 J | 0.05263 | 0.26 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | TPH C10-C28 | 12.8 | 0.26 | 1.3 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | TPH C10-C28 | 0.17 J | 0.05291 | 0.26 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05263 | 0.26 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | TPH C10-C28 | 0.25 J | 0.05435 | 0.27 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | TPH C10-C28 | 0.36 | 0.05319 | 0.26 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | TPH C10-C28 | 0.25 U | 0.05076 | 0.25 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | TPH C10-C28 | 0.058 J | 0.051545 | 0.26 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | TPH C10-C28 | 0.46 | 0.05102 | 0.26 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05291 | 0.26 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | TPH C10-C28 | 0.39 | 0.050505 | 0.25 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | TPH C10-C28 | 0.086 J | 0.05128 | 0.26 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8015-E** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05102 | 0.26 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | TPH C10-C28 | 0.26 U | 0.052085 | 0.26 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | TPH C10-C28 | 0.25 U | 0.05076 | 0.25 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | TPH C10-C28 | 0.21 J | 0.05102 | 0.26 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | TPH C10-C28 | 0.26 U | 0.052085 | 0.26 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | TPH C10-C28 | 0.27 U | 0.054945 | 0.27 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | TPH C10-C28 | 0.27 U | 0.05435 | 0.27 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | TPH C10-C28 | 87.1 | 2.7 | 13.7 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | TPH C10-C28 | 121 | 2.8 | 14 | MG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | TPH C10-C28 | 38.8 | 1.1 | 5.6 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | TPH C10-C28 | 464 | 11.2 | 56.2 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | TPH C10-C28 | 38.2 | 0.54 | 2.7 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | TPH C10-C28 | 66.1 | 1.1 | 5.5 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | TPH C10-C28 | 19.2 | 0.53 | 2.6 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | TPH C10-C28 | 0.26 U | 0.05128 | 0.26 | MG/L |
| **SW8015-P** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | TPH C6-C10 | 0.13 | 0.0085 | 0.064 | MG/L |
| | ST106-FD-1067-30042010 | WATER | FD | TPH C6-C10 | 0.11 | 0.0085 | 0.064 | MG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | TPH C6-C10 | 93.8 J | 0.85 | 6.4 | MG/L |
| | ST106-GW-10611-28042010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10612-29042010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1061-30042010 | WATER | N | TPH C6-C10 | 0.014 J | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10613-22042010 | WATER | N | TPH C6-C10 | 0.046 J | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10615-28042010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8015-P** | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10617-19042010 | WATER | N | TPH C6-C10 | 0.2 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10618-20042010 | WATER | N | TPH C6-C10 | 7.3 | 0.0425 | 0.32 | MG/L |
| | ST106-GW-10619-20042010 | WATER | N | TPH C6-C10 | 0.11 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10620-21042010 | WATER | N | TPH C6-C10 | 0.3 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10621-22042010 | WATER | N | TPH C6-C10 | 0.17 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10622-26042010 | WATER | N | TPH C6-C10 | 0.13 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1062-30042010 | WATER | N | TPH C6-C10 | 0.022 J | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10623-26042010 | WATER | N | TPH C6-C10 | 0.1 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10624-27042010 | WATER | N | TPH C6-C10 | 0.16 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10625-16042010 | WATER | N | TPH C6-C10 | 0.2 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10626-27042010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-10627-05052010 | WATER | N | TPH C6-C10 | 0.017 J | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1063-03052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1064-05052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1067-30042010 | WATER | N | TPH C6-C10 | 0.11 | 0.0085 | 0.064 | MG/L |
| | ST106-GW-1069-06052010 | WATER | N | TPH C6-C10 | 10.5 | 0.17 | 1.3 | MG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-3411-03052010 | WATER | N | TPH C6-C10 | 0.017 J | 0.0085 | 0.064 | MG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | TPH C6-C10 | 449 | 4.2 | 32 | MG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | TPH C6-C10 | 55.2 J | 0.85 | 6.4 | MG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8015-P** | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | TPH C6-C10 | 40.1 | 1.7 | 12.8 | MG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | TPH C6-C10 | 76.1 | 0.85 | 6.4 | MG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | TPH C6-C10 | 31.2 | 0.42 | 3.2 | MG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | TPH C6-C10 | 22.5 | 0.42 | 3.2 | MG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | TPH C6-C10 | 76.1 | 0.42 | 3.2 | MG/L |
| | ST106-GW-VA2-06052010 | WATER | N | TPH C6-C10 | 0.064 U | 0.0085 | 0.064 | MG/L |
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Toluene | 121 | 0.7 | 5 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Trichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Toluene | 171 | 0.7 | 5 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Toluene | 23 | 0.14 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dichloroethane | 0.22 J | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzene | 1.4 | 0.17 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chloroform | 0.43 J | 0.16 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Toluene | 73.7 | 0.14 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,3,5-Trimethylbenzene | 0.46 J | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bromobenzene | 1 U | 0.21 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dichlorodifluoromethane | 0.64 J | 0.17 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Tetrachloroethene | 0.23 J | 0.21 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Trichloroethene | 0.26 J | 0.19 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Trichlorofluoromethane | 0.23 J | 0.12 | 2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2,3-Trichloropropane | 76 U | 17.5 | 76 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2,4-Trimethylbenzene | 397 | 6.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dibromoethane | 279 | 5.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,3,5-Trimethylbenzene | 142 | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Butanone | 1140 | 100 | 300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Hexanone | 430 | 24 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Methyl-2-Pentanone | 152 J | 50 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Acetone | 3860 | 65 | 500 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzene | 6120 | 85 | 500 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bromoform | 50 U | 9.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Ethylbenzene | 1140 | 11 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Isopropylbenzene | 110 | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | m,p-Xylene | 2340 | 11.5 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Methylene chloride | 53.2 J | 33 | 250 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Naphthalene | 226 | 25 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | n-Butylbenzene | 30.7 J | 8 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | n-Propylbenzene | 149 | 7 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | o-Xylene | 1090 | 25 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | sec-Butylbenzene | 26.4 J | 5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Toluene | 13400 | 70 | 500 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Xylenes, Total | 3430 | 25 | 150 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Isopropylbenzene | 0.36 J | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzene | 0.64 J | 0.17 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Toluene | 0.16 J | 0.14 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-22042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-22042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Toluene | 27.2 | 0.14 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Toluene | 121 | 0.7 | 5 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Toluene | 170 | 0.7 | 5 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Toluene | 24.7 | 0.14 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2,4-Trimethylbenzene | 2.4 | 0.13 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dichloroethane | 0.16 J | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,3,5-Trimethylbenzene | 0.25 J | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dichlorodifluoromethane | 0.51 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Isopropylbenzene | 1.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | m,p-Xylene | 8.2 | 0.23 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | n-Propylbenzene | 0.2 J | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | sec-Butylbenzene | 0.24 J | 0.1 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Tetrachloroethene | 0.29 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Toluene | 14 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Trichlorofluoromethane | 0.19 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Xylenes, Total | 8.2 | 0.5 | 3 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1.2 | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dichloroethane | 0.16 J | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Dichlorodifluoromethane | 0.53 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Isopropylbenzene | 1.1 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | m,p-Xylene | 4.8 | 0.23 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | sec-Butylbenzene | 0.15 J | 0.1 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Tetrachloroethene | 0.28 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Toluene | 75.6 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Trichlorofluoromethane | 0.24 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | Xylenes, Total | 4.8 | 0.5 | 3 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1.5 | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dichloroethane | 0.16 J | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 0.16 J | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Acetone | 10 UJ | 1.3 | 10 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Dichlorodifluoromethane | 0.63 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Isopropylbenzene | 1.3 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | m,p-Xylene | 5.4 | 0.23 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | sec-Butylbenzene | 0.17 J | 0.1 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Tetrachloroethene | 0.29 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Toluene | 57.7 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Trichlorofluoromethane | 0.25 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | Xylenes, Total | 5.4 | 0.5 | 3 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 2.3 | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dichloroethane | 0.18 J | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 0.25 J | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Dichlorodifluoromethane | 0.65 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Isopropylbenzene | 2 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | m,p-Xylene | 8.8 | 0.23 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | n-Propylbenzene | 0.21 J | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | sec-Butylbenzene | 0.24 J | 0.1 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Tetrachloroethene | 0.34 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Toluene | 4.7 | 0.14 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Trichlorofluoromethane | 0.24 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | Xylenes, Total | 8.8 | 0.5 | 3 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dibromoethane | 0.78 J | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Dichlorodifluoromethane | 0.55 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Tetrachloroethene | 0.29 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Trichlorofluoromethane | 0.22 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dibromoethane | 0.81 J | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Dichlorodifluoromethane | 0.58 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Tetrachloroethene | 0.27 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Trichlorofluoromethane | 0.25 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dichloroethane | 0.2 J | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Dichlorodifluoromethane | 0.62 J | 0.17 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | m,p-Xylene | 0.38 J | 0.23 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Tetrachloroethene | 0.31 J | 0.21 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Trichlorofluoromethane | 0.22 J | 0.12 | 2 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1,1-Trichloroethane | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 5 U | 0.65 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1,2-Trichloroethane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1-Dichloroethane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1-Dichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,1-Dichloropropene | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2,3-Trichlorobenzene | 6.1 U | 0.8 | 6.1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2,3-Trichloropropane | 7.6 U | 1.8 | 7.6 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2,4-Trichlorobenzene | 5 U | 0.55 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2,4-Trimethylbenzene | 147 | 0.65 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 25 U | 5 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dibromoethane | 3.3 J | 0.55 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dichlorobenzene | 5 U | 0.38 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dichloroethane | 6.3 | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dichloropropane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,3,5-Trimethylbenzene | 42.2 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,3-Dichlorobenzene | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,3-Dichloropropane | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,4-Dichlorobenzene | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,2-Dichloropropane | 25 U | 0.85 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Butanone | 20.9 J | 10 | 30 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Chlorotoluene | 5 U | 0.36 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | 2-Hexanone | 25 U | 2.4 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Chlorotoluene | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Methyl-2-Pentanone | 114 | 5 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Acetone | 50 UJ | 6.5 | 50 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzene | 848 | 3.4 | 20 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bromobenzene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bromochloromethane | 5 U | 0.85 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bromodichloromethane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bromoform | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bromomethane | 10 U | 2.2 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Carbon disulfide | 10 U | 0.95 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Carbon tetrachloride | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chlorobenzene | 5 U | 0.8 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chloroethane | 10 U | 3.6 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chloroform | 1.3 J | 0.8 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chloromethane | 10 U | 1.6 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | cis-1,2-Dichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | cis-1,3-Dichloropropene | 5 U | 0.6 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dibromochloromethane | 5 U | 0.65 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dibromomethane | 5.3 U | 0.55 | 5.3 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dichlorodifluoromethane | 10 U | 0.85 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Ethylbenzene | 238 | 1.1 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Hexachlorobutadiene | 5 U | 1.8 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | Isopropylbenzene | 50.8 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | m,p-Xylene | 564 | 1.2 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 25 U | 2.5 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Methylene chloride | 25 U | 3.3 | 25 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Naphthalene | 33.6 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | n-Butylbenzene | 5.7 | 0.8 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | n-Propylbenzene | 35.2 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | o-Xylene | 167 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | p-Isopropyltoluene | 3.7 J | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | sec-Butylbenzene | 6.8 | 0.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Styrene | 5 U | 0.6 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | tert-Butylbenzene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Tetrachloroethene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Toluene | 45.4 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Trans-1,2-Dichloroethene | 5 U | 1.6 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | trans-1,3-Dichloropropene | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Trichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Trichlorofluoromethane | 10 U | 0.6 | 10 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Vinyl Chloride | 5 U | 0.9 | 5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Xylenes, Total | 731 | 2.5 | 15 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 137 | 0.65 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 2.2 | 0.11 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dichloroethane | 4.9 | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 36.1 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 2-Butanone | 13 | 2 | 6 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 2-Hexanone | 25.1 | 0.48 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 99 | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Acetone | 40.6 J | 1.3 | 10 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Benzene | 126 | 0.85 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Chloroform | 0.78 J | 0.16 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Ethylbenzene | 97 | 1.1 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Isopropylbenzene | 38.7 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | m,p-Xylene | 363 | 1.2 | 10 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 0.87 J | 0.5 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Naphthalene | 21.4 | 0.5 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | n-Butylbenzene | 4 | 0.16 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | n-Propylbenzene | 21.2 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | o-Xylene | 89.3 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | p-Isopropyltoluene | 3 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | sec-Butylbenzene | 4.6 | 0.1 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Toluene | 0.71 J | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | Xylenes, Total | 452 | 2.5 | 15 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1,2-Trichloroethane | 0.7 J | 0.2 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 136 | 0.65 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dibromoethane | 1.9 | 0.11 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dichloroethane | 4.9 | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 35.8 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 2-Butanone | 14.5 | 2 | 6 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 99.4 | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Acetone | 38.3 J | 1.3 | 10 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Benzene | 127 | 0.85 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Chloroform | 0.72 J | 0.16 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Ethylbenzene | 106 | 1.1 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Isopropylbenzene | 41.5 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | m,p-Xylene | 384 | 1.2 | 10 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 0.88 J | 0.5 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Naphthalene | 24 | 0.5 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | n-Butylbenzene | 3.8 | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | n-Propylbenzene | 23.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | o-Xylene | 93.2 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | p-Isopropyltoluene | 2.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | sec-Butylbenzene | 4.6 | 0.1 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Toluene | 0.73 J | 0.14 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | Xylenes, Total | 477 | 2.5 | 15 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1,1-Trichloroethane | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 5 U | 0.65 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1,2-Trichloroethane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1-Dichloroethane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1-Dichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,1-Dichloropropene | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 6.1 U | 0.8 | 6.1 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2,3-Trichloropropane | 7.6 U | 1.8 | 7.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 5 U | 0.55 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 167 | 0.65 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 25 U | 5 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dibromoethane | 5 U | 0.55 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dichlorobenzene | 5 U | 0.38 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dichloroethane | 6.2 | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,2-Dichloropropane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 43.6 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,3-Dichlorobenzene | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,3-Dichloropropane | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 1,4-Dichlorobenzene | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 2,2-Dichloropropane | 25 U | 0.85 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 2-Butanone | 61.2 | 10 | 30 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 2-Chlorotoluene | 5 U | 0.36 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 2-Hexanone | 38.5 | 2.4 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 4-Chlorotoluene | 5.1 | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 176 | 5 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Acetone | 69.4 U | 6.5 | 50 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Benzene | 181 | 0.85 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Bromobenzene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Bromochloromethane | 5 U | 0.85 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Bromodichloromethane | 5 U | 0.75 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Bromoform | 5 U | 0.95 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Bromomethane | 10 U | 2.2 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Carbon disulfide | 10 U | 0.95 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Carbon tetrachloride | 5 U | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Chlorobenzene | 5 U | 0.8 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Chloroethane | 10 U | 3.6 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Chloroform | 1.2 J | 0.8 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Chloromethane | 10 U | 1.6 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | cis-1,2-Dichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | cis-1,3-Dichloropropene | 5 U | 0.6 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Dibromochloromethane | 5 U | 0.65 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Dibromomethane | 5.3 U | 0.55 | 5.3 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Dichlorodifluoromethane | 10 U | 0.85 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Ethylbenzene | 389 | 1.1 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Hexachlorobutadiene | 5 U | 1.8 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Isopropylbenzene | 56.8 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | m,p-Xylene | 793 | 1.2 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 25 U | 2.5 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Methylene chloride | 25 U | 3.3 | 25 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Naphthalene | 53.1 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | n-Butylbenzene | 3.4 J | 0.8 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | n-Propylbenzene | 43.8 | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | o-Xylene | 215 | 2.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | p-Isopropyltoluene | 2.7 J | 0.7 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | sec-Butylbenzene | 4.3 J | 0.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Styrene | 5 U | 0.6 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | tert-Butylbenzene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Tetrachloroethene | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Toluene | 2.9 J | 0.7 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 5 U | 1.6 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | trans-1,3-Dichloropropene | 5 U | 1.5 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Trichloroethene | 5 U | 0.95 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Trichlorofluoromethane | 10 U | 0.6 | 10 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Vinyl Chloride | 5 U | 0.9 | 5 | UG/L |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | Xylenes, Total | 1010 | 2.5 | 15 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dibromoethane | 0.48 J | 0.11 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Isopropylbenzene | 0.26 J | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Toluene | 47.1 | 0.14 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dibromoethane | 0.6 J | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dibromoethane | 0.55 J | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Acetone | 10 UJ | 1.3 | 10 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dibromoethane | 0.54 J | 0.11 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Acetone | 10 UJ | 1.3 | 10 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Isopropylbenzene | 3 | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | sec-Butylbenzene | 0.39 J | 0.1 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Toluene | 17.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Isopropylbenzene | 2.2 | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | sec-Butylbenzene | 0.22 J | 0.1 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Isopropylbenzene | 2.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | sec-Butylbenzene | 0.29 J | 0.1 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2,4-Trimethylbenzene | 1.4 | 0.13 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dibromoethane | 0.31 J | 0.11 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dichloroethane | 0.38 J | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,3,5-Trimethylbenzene | 2.4 | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dichlorodifluoromethane | 2 UJ | 0.17 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Isopropylbenzene | 1.6 | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | m,p-Xylene | 7.5 | 0.23 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | sec-Butylbenzene | 0.18 J | 0.1 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | Toluene | 47.3 | 0.14 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Xylenes, Total | 7.5 | 0.5 | 3 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dibromoethane | 0.27 J | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dichloroethane | 0.3 J | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Dichlorodifluoromethane | 2 UJ | 0.17 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dibromoethane | 0.27 J | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dichloroethane | 0.32 J | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dibromoethane | 0.28 J | 0.11 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dichloroethane | 0.32 J | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2,4-Trimethylbenzene | 1.2 | 0.13 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dibromoethane | 0.93 J | 0.11 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dichloroethane | 0.2 J | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,3,5-Trimethylbenzene | 0.31 J | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Isopropylbenzene | 1.1 J | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | m,p-Xylene | 3.2 | 0.23 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | sec-Butylbenzene | 0.13 J | 0.1 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Toluene | 53 | 0.14 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Xylenes, Total | 3.2 | 0.5 | 3 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dibromoethane | 1 | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dibromoethane | 1.1 | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dichloroethane | 0.24 J | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 1.1 | 0.11 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Toluene | 72.1 | 0.14 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dichloroethane | 0.26 J | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzene | 1.4 | 0.17 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chloroform | 0.46 J | 0.16 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Toluene | 75.1 | 0.14 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.16 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Toluene | 91.8 | 0.7 | 5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.16 | 5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Toluene | 0.3 J | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.16 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.16 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Toluene | 2.7 | 0.14 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Acetone | 2.2 J | 1.3 | 10 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Toluene | 9.9 | 0.14 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,2-Dichloropropane | 5 UJ | 0.17 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bromomethane | 2 UJ | 0.43 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Trichloroethene | 0.21 J | 0.19 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1-Dichloroethane | 0.2 J | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,3,5-Trimethylbenzene | 0.39 J | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dichlorodifluoromethane | 0.86 J | 0.17 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Tetrachloroethene | 0.32 J | 0.21 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Trichloroethene | 0.31 J | 0.19 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Trichlorofluoromethane | 0.32 J | 0.12 | 2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 10 U | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1,1-Trichloroethane | 10 U | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1,2-Trichloroethane | 10 U | 2 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1-Dichloroethane | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1-Dichloroethene | 10 U | 1.9 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,1-Dichloropropene | 10 U | 3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2,3-Trichlorobenzene | 12.2 U | 1.6 | 12.2 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2,3-Trichloropropane | 15.2 U | 3.5 | 15.2 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2,4-Trichlorobenzene | 10 U | 1.1 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2,4-Trimethylbenzene | 81.6 | 1.3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dibromoethane | 39.6 | 1.1 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dichlorobenzene | 10 U | 0.77 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dichloroethane | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,2-Dichloropropane | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,3,5-Trimethylbenzene | 26.6 | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,3-Dichlorobenzene | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,3-Dichloropropane | 10 U | 3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 1,4-Dichlorobenzene | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 2,2-Dichloropropane | 50 U | 1.7 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 2-Butanone | 24.7 J | 20 | 60 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 2-Chlorotoluene | 10 U | 0.72 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 2-Hexanone | 60.7 | 4.8 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 4-Chlorotoluene | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | 4-Methyl-2-Pentanone | 133 | 10 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Acetone | 185 | 13 | 100 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Benzene | 3330 | 17 | 100 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Bromobenzene | 10 U | 2.1 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Bromochloromethane | 10 U | 1.7 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Bromodichloromethane | 10 U | 1.5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Bromoform | 10 U | 1.9 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Bromomethane | 20 U | 4.3 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Carbon disulfide | 20 U | 1.9 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Carbon tetrachloride | 10 U | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Chlorobenzene | 10 U | 1.6 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1069-06052010 | WATER | N | Chloroethane | 20 U | 7.2 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Chloroform | 10 U | 1.6 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Chloromethane | 20 U | 3.2 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | cis-1,2-Dichloroethene | 10 U | 1.9 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | cis-1,3-Dichloropropene | 10 U | 1.2 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Dibromochloromethane | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Dibromomethane | 10.6 U | 1.1 | 10.6 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Dichlorodifluoromethane | 20 U | 1.7 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Ethylbenzene | 416 | 2.2 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Hexachlorobutadiene | 10 U | 3.6 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Isopropylbenzene | 30.9 | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | m,p-Xylene | 828 | 2.3 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 50 U | 5 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Methylene chloride | 50 U | 6.6 | 50 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Naphthalene | 34.3 | 5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | n-Butylbenzene | 10 U | 1.6 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | n-Propylbenzene | 24.7 | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | o-Xylene | 486 | 5 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | p-Isopropyltoluene | 10 U | 1.4 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | sec-Butylbenzene | 3.6 J | 1 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Styrene | 10 U | 1.2 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | tert-Butylbenzene | 10 U | 2 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Tetrachloroethene | 10 U | 2.1 | 10 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-1069-06052010 | WATER | N | Toluene | 6250 | 14 | 100 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Trans-1,2-Dichloroethene | 10 U | 3.3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | trans-1,3-Dichloropropene | 10 U | 3 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Trichloroethene | 10 U | 1.9 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Trichlorofluoromethane | 20 U | 1.2 | 20 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Vinyl Chloride | 10 U | 1.8 | 10 | UG/L |
| | ST106-GW-1069-06052010 | WATER | N | Xylenes, Total | 1310 | 5 | 30 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,2-Dichloropropane | 5 UJ | 0.17 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | cis-1,2-Dichloroethene | 0.26 J | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Vinyl Chloride | 0.36 J | 0.18 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2,3-Trichloropropane | 76 UJ | 17.5 | 76 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2,4-Trimethylbenzene | 704 | 6.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dibromoethane | 117 | 5.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,3,5-Trimethylbenzene | 234 | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Butanone | 604 J | 100 | 300 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Hexanone | 136 J | 24 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Methyl-2-Pentanone | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Acetone | 1610 J | 65 | 500 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzene | 3600 | 8.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Ethylbenzene | 1770 | 11 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Isopropylbenzene | 190 | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | m,p-Xylene | 3330 | 11.5 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Methylene chloride | 250 U | 33 | 250 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Naphthalene | 193 | 25 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | n-Butylbenzene | 71 | 8 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | n-Propylbenzene | 249 | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | o-Xylene | 1420 | 25 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | sec-Butylbenzene | 54.6 | 5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Toluene | 11100 | 70 | 500 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Xylenes, Total | 4750 | 25 | 150 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2,3-Trichloropropane | 76 U | 17.5 | 76 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2,4-Trimethylbenzene | 404 | 6.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dibromoethane | 286 | 5.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,3,5-Trimethylbenzene | 134 | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Butanone | 1090 | 100 | 300 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Hexanone | 407 | 24 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Methyl-2-Pentanone | 134 J | 50 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Acetone | 3700 | 65 | 500 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzene | 5240 | 85 | 500 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Ethylbenzene | 1140 | 11 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Isopropylbenzene | 108 | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | m,p-Xylene | 2370 | 11.5 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Methylene chloride | 53.7 J | 33 | 250 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Naphthalene | 220 | 25 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | n-Butylbenzene | 31.4 J | 8 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | n-Propylbenzene | 146 | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | o-Xylene | 1100 | 25 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | sec-Butylbenzene | 28.7 J | 5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Toluene | 11800 | 70 | 500 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Xylenes, Total | 3470 | 25 | 150 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2,3-Trichloropropane | 76 UJ | 17.5 | 76 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2,4-Trimethylbenzene | 335 | 6.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dibromoethane | 170 | 5.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,3,5-Trimethylbenzene | 114 | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Butanone | 675 J | 100 | 300 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Hexanone | 236 J | 24 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Methyl-2-Pentanone | 165 J | 50 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Acetone | 2900 J | 65 | 500 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzene | 3990 | 8.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Ethylbenzene | 1230 | 11 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Isopropylbenzene | 103 | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | m,p-Xylene | 2410 | 11.5 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Methylene chloride | 250 U | 33 | 250 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Naphthalene | 144 | 25 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | n-Butylbenzene | 25.6 J | 8 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | n-Propylbenzene | 120 | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | o-Xylene | 1030 | 25 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | sec-Butylbenzene | 21.6 J | 5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Toluene | 11500 | 70 | 500 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Xylenes, Total | 3440 | 25 | 150 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 20 U | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1,1-Trichloroethane | 20 U | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 20 U | 2.6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1,2-Trichloroethane | 20 U | 4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1-Dichloroethane | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1-Dichloroethene | 20 U | 3.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,1-Dichloropropene | 20 U | 6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2,3-Trichlorobenzene | 24.4 U | 3.2 | 24.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2,3-Trichloropropane | 30.4 UJ | 7 | 30.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2,4-Trichlorobenzene | 20 U | 2.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2,4-Trimethylbenzene | 562 J | 2.6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 100 U | 20 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dibromoethane | 120 J | 2.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dichlorobenzene | 20 U | 1.5 | 20 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dichloroethane | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dichloropropane | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,3,5-Trimethylbenzene | 241 J | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,3-Dichlorobenzene | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,3-Dichloropropane | 20 U | 6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,4-Dichlorobenzene | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,2-Dichloropropane | 100 U | 3.4 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Butanone | 282 J | 40 | 120 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Chlorotoluene | 20 U | 1.4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Hexanone | 100 U | 9.6 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Chlorotoluene | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Methyl-2-Pentanone | 100 U | 20 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Acetone | 1410 J | 26 | 200 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzene | 2920 | 34 | 200 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bromobenzene | 20 U | 4.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bromochloromethane | 20 U | 3.4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bromodichloromethane | 20 U | 3 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bromoform | 20 U | 3.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bromomethane | 40 U | 8.6 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Carbon disulfide | 40 U | 3.8 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Carbon tetrachloride | 20 U | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chlorobenzene | 20 U | 3.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chloroethane | 40 U | 14.4 | 40 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | Chloroform | 20 U | 3.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chloromethane | 40 U | 6.4 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | cis-1,2-Dichloroethene | 20 U | 3.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | cis-1,3-Dichloropropene | 20 U | 2.4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dibromochloromethane | 20 U | 2.6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dibromomethane | 21.2 U | 2.2 | 21.2 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dichlorodifluoromethane | 40 U | 3.4 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Ethylbenzene | 474 J | 4.4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Hexachlorobutadiene | 20 U | 7.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Isopropylbenzene | 87.2 J | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | m,p-Xylene | 1710 J | 4.6 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 100 U | 10 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Methylene chloride | 100 U | 13.2 | 100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Naphthalene | 440 J | 10 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | n-Butylbenzene | 88.3 J | 3.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | n-Propylbenzene | 122 J | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | o-Xylene | 732 J | 10 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | p-Isopropyltoluene | 20 U | 2.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | sec-Butylbenzene | 59.1 J | 2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Styrene | 20 U | 2.4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | tert-Butylbenzene | 20 U | 4 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Tetrachloroethene | 20 U | 4.2 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Toluene | 6290 | 28 | 200 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | Trans-1,2-Dichloroethene | 20 U | 6.6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | trans-1,3-Dichloropropene | 20 U | 6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Trichloroethene | 20 U | 3.8 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Trichlorofluoromethane | 40 U | 2.4 | 40 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Vinyl Chloride | 20 U | 3.6 | 20 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Xylenes, Total | 2440 J | 10 | 60 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2,3-Trichloropropane | 76 U | 17.5 | 76 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2,4-Trimethylbenzene | 154 | 6.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dibromoethane | 149 | 5.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,3,5-Trimethylbenzene | 56.5 | 7 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8260B | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Butanone | 300 U | 100 | 300 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Hexanone | 51.4 J | 24 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Methyl-2-Pentanone | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Acetone | 276 J | 65 | 500 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzene | 2400 | 8.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Ethylbenzene | 568 | 11 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Isopropylbenzene | 48.1 J | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | m,p-Xylene | 1200 | 11.5 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Methylene chloride | 67.1 J | 33 | 250 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Naphthalene | 93.6 | 25 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | n-Butylbenzene | 16.7 J | 8 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | n-Propylbenzene | 73.9 | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | o-Xylene | 564 | 25 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | sec-Butylbenzene | 15.8 J | 5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Toluene | 9070 | 70 | 500 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Xylenes, Total | 1760 | 25 | 150 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2,3-Trichloropropane | 76 U | 17.5 | 76 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2,4-Trimethylbenzene | 265 | 6.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dibromoethane | 258 | 5.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,3,5-Trimethylbenzene | 96.3 | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Butanone | 255 J | 100 | 300 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Hexanone | 529 | 24 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Methyl-2-Pentanone | 301 | 50 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Acetone | 1420 | 65 | 500 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzene | 4900 | 85 | 500 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Ethylbenzene | 980 | 11 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Isopropylbenzene | 86.6 | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | m,p-Xylene | 2190 | 11.5 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Methylene chloride | 48.3 J | 33 | 250 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Naphthalene | 124 | 25 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | n-Butylbenzene | 23 J | 8 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | n-Propylbenzene | 119 | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | o-Xylene | 958 | 25 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | sec-Butylbenzene | 22.4 J | 5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Toluene | 12300 | 70 | 500 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Xylenes, Total | 3140 | 25 | 150 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1,1,2-Tetrachloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1,1-Trichloroethane | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1,2,2-Tetrachloroethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1,2-Trichloroethane | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,1-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2,3-Trichlorobenzene | 61 U | 8 | 61 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2,3-Trichloropropane | 76 UJ | 17.5 | 76 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2,4-Trichlorobenzene | 50 U | 5.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2,4-Trimethylbenzene | 333 | 6.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dibromo-3-chloropropane | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dibromoethane | 83.7 | 5.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dichlorobenzene | 50 U | 3.8 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dichloroethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dichloropropane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,3,5-Trimethylbenzene | 123 | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,3-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,3-Dichloropropane | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,4-Dichlorobenzene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,2-Dichloropropane | 250 U | 8.5 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Butanone | 300 UJ | 100 | 300 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Chlorotoluene | 50 U | 3.6 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Hexanone | 250 U | 24 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Chlorotoluene | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Methyl-2-Pentanone | 250 U | 50 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Acetone | 500 U | 65 | 500 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzene | 4050 | 85 | 500 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bromobenzene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bromochloromethane | 50 U | 8.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bromodichloromethane | 50 U | 7.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bromoform | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bromomethane | 100 U | 21.5 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Carbon disulfide | 100 U | 9.5 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Carbon tetrachloride | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chlorobenzene | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chloroethane | 100 U | 36 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chloroform | 50 U | 8 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chloromethane | 100 U | 16 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | cis-1,2-Dichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | cis-1,3-Dichloropropene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dibromochloromethane | 50 U | 6.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dibromomethane | 53 U | 5.5 | 53 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dichlorodifluoromethane | 100 U | 8.5 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Ethylbenzene | 1220 | 11 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Hexachlorobutadiene | 50 U | 18 | 50 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | Isopropylbenzene | 105 | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | m,p-Xylene | 2340 | 11.5 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Methyl tert-butyl ether (MTBE) | 250 U | 25 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Methylene chloride | 250 U | 33 | 250 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Naphthalene | 147 | 25 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | n-Butylbenzene | 24.4 J | 8 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | n-Propylbenzene | 131 | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | o-Xylene | 1110 | 25 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | p-Isopropyltoluene | 50 U | 7 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | sec-Butylbenzene | 20.8 J | 5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Styrene | 50 U | 6 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | tert-Butylbenzene | 50 U | 10 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Tetrachloroethene | 50 U | 10.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Toluene | 11900 | 70 | 500 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Trans-1,2-Dichloroethene | 50 U | 16.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | trans-1,3-Dichloropropene | 50 U | 15 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Trichloroethene | 50 U | 9.5 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Trichlorofluoromethane | 100 U | 6 | 100 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Vinyl Chloride | 50 U | 9 | 50 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Xylenes, Total | 3440 | 25 | 150 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1,1,2-Tetrachloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1,1-Trichloroethane | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1,2,2-Tetrachloroethane | 1 U | 0.13 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1,2-Trichloroethane | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,1-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2,3-Trichlorobenzene | 1.2 U | 0.16 | 1.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2,3-Trichloropropane | 1.5 U | 0.35 | 1.5 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2,4-Trichlorobenzene | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2,4-Trimethylbenzene | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dibromo-3-chloropropane | 5 U | 1 | 5 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dibromoethane | 1 U | 0.11 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dichlorobenzene | 1 U | 0.077 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dichloroethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dichloropropane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,3,5-Trimethylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,3-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,3-Dichloropropane | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,4-Dichlorobenzene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,2-Dichloropropane | 5 U | 0.17 | 5 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Butanone | 6 U | 2 | 6 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Chlorotoluene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Hexanone | 5 U | 0.48 | 5 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Chlorotoluene | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Methyl-2-Pentanone | 5 U | 1 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | Acetone | 10 U | 1.3 | 10 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzene | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bromobenzene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bromochloromethane | 1 U | 0.17 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bromodichloromethane | 1 U | 0.15 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bromoform | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bromomethane | 2 U | 0.43 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Carbon disulfide | 2 U | 0.19 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Carbon tetrachloride | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chlorobenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chloroethane | 2 U | 0.72 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chloroform | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chloromethane | 2 U | 0.32 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | cis-1,2-Dichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | cis-1,3-Dichloropropene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dibromochloromethane | 1 U | 0.13 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dibromomethane | 1.1 U | 0.11 | 1.1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dichlorodifluoromethane | 2 U | 0.17 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Ethylbenzene | 1 U | 0.22 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Hexachlorobutadiene | 1 U | 0.36 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Isopropylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | m,p-Xylene | 2 U | 0.23 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Methyl tert-butyl ether (MTBE) | 5 U | 0.5 | 5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | Methylene chloride | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Naphthalene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | n-Butylbenzene | 1 U | 0.16 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | n-Propylbenzene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | o-Xylene | 1 U | 0.5 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | p-Isopropyltoluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | sec-Butylbenzene | 1 U | 0.1 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Styrene | 1 U | 0.12 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | tert-Butylbenzene | 1 U | 0.2 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Tetrachloroethene | 1 U | 0.21 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Toluene | 1 U | 0.14 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Trans-1,2-Dichloroethene | 1 U | 0.33 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | trans-1,3-Dichloropropene | 1 U | 0.3 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Trichloroethene | 1 U | 0.19 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Trichlorofluoromethane | 2 U | 0.12 | 2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Vinyl Chloride | 1 U | 0.18 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Xylenes, Total | 3 U | 0.5 | 3 | UG/L |
| **SW8270C** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Dichlorobenzene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,2-Diphenylhydrazine | 10.1 U | 3.1 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 1,3-Dinitrobenzene | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4,5-Trichlorophenol | 20.2 U | 3.4 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4,6-Trichlorophenol | 20.2 U | 0.85 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4-Dichlorophenol | 10.1 U | 3.1 | 10.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4-Dimethylphenol | 10.1 U | 2.3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4-Dinitrophenol | 60.6 U | 5.6 | 60.6 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,4-Dinitrotoluene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2,6-Dinitrotoluene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Chloronaphthalene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Chlorophenol | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Methylnaphthalene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Methylphenol | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Nitroaniline | 50.5 U | 3 | 50.5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Nitrophenol | 20.2 U | 0.78 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 3,3'-Dichlorobenzidine | 20.2 U | 2.7 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 3-Nitroaniline | 50.5 U | 2.8 | 50.5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4,6-Dinitro-2-methylphenol | 60.6 U | 4 | 60.6 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Bromophenyl phenyl ether | 10.1 U | 2.3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Chloro-3-methylphenol | 20.2 U | 2.7 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Chloroaniline | 20.2 U | 3 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Chlorophenyl phenyl ether | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Methylphenol | 20.2 U | 6.2 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Nitroaniline | 10.1 U | 1.3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 4-Nitrophenol | 50.5 UJ | 4 | 50.5 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Acenaphthene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Acenaphthylene | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Anthracene | 10.1 U | 2.8 | 10.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Benzidine | 152 U | 20.2 | 152 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (a) pyrene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (b) fluoranthene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (g,h,i) perylene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo(a)anthracene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo(k)fluoranthene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzoic acid | 60.6 UJ | 14.1 | 60.6 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bis (2-chloroethoxy) methane | 10.1 U | 3.5 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bis (2-chloroethyl) ether | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Bis (2-ethylhexyl) phthalate | 5 J | 4.4 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Butyl benzylphthalate | 20.2 U | 3 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chrysene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dibenzo (a,h) anthracene | 10.1 U | 1.2 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dibenzofuran | 10.1 U | 2.7 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Diethyl phthalate | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dimethyl phthalate | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Di-n-butylphthalate | 20.2 U | 0.87 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Di-n-octylphthalate | 2.2 J | 1.1 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Fluoranthene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Fluorene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Hexachlorobenzene | 10.1 U | 0.41 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Hexachlorobutadiene | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Hexachlorocyclopentadiene | 10.1 U | 0.83 | 10.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Hexachloroethane | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 10.1 U | 1.6 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Naphthalene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Nitrobenzene | 20.2 U | 1 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | n-Nitrosodi-n-propylamine | 20.2 U | 3 | 20.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | n-Nitrosodiphenylamine | 10.1 U | 3.4 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Pentachlorophenol | 60.6 U | 1.4 | 60.6 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Phenanthrene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Phenol | 2.9 J | 1.7 | 10.1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Pyrene | 10.1 U | 1.2 | 10.1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Dichlorobenzene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,2-Diphenylhydrazine | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1,3-Dinitrobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4,5-Trichlorophenol | 20.5 U | 3.5 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4,6-Trichlorophenol | 20.5 U | 0.86 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4-Dichlorophenol | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4-Dimethylphenol | 10.2 U | 2.4 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4-Dinitrophenol | 61.5 U | 5.7 | 61.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,4-Dinitrotoluene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2,6-Dinitrotoluene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Chloronaphthalene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Chlorophenol | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Methylnaphthalene | 10.2 U | 2.9 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Methylphenol | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Nitroaniline | 51.3 U | 3.1 | 51.3 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Nitrophenol | 20.5 U | 0.79 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 3,3'-Dichlorobenzidine | 20.5 U | 2.8 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 3-Nitroaniline | 51.3 U | 2.9 | 51.3 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4,6-Dinitro-2-methylphenol | 61.5 U | 4.1 | 61.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Bromophenyl phenyl ether | 10.2 U | 2.4 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Chloro-3-methylphenol | 20.5 U | 2.8 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Chloroaniline | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Chlorophenyl phenyl ether | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Methylphenol | 20.5 U | 6.2 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 4-Nitrophenol | 51.3 UJ | 4.1 | 51.3 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Acenaphthene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Acenaphthylene | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Anthracene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzidine | 154 U | 20.5 | 154 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (a) pyrene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (b) fluoranthene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (g,h,i) perylene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo(a)anthracene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo(k)fluoranthene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzoic acid | 61.5 U | 14.4 | 61.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bis (2-chloroethyl) ether | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Bis (2-ethylhexyl) phthalate | 10.2 U | 4.5 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Butyl benzylphthalate | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chrysene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dibenzofuran | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Diethyl phthalate | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dimethyl phthalate | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Di-n-butylphthalate | 20.5 U | 0.88 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Di-n-octylphthalate | 20.5 U | 1.1 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Fluoranthene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Fluorene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Hexachlorobutadiene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Hexachlorocyclopentadiene | 10.2 U | 0.84 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Hexachloroethane | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Naphthalene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Nitrobenzene | 20.5 U | 1 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | n-Nitrosodi-n-propylamine | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | n-Nitrosodiphenylamine | 10.2 U | 3.5 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Pentachlorophenol | 61.5 U | 1.4 | 61.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-1067-30042010 | WATER | FD | Phenanthrene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Dichlorobenzene | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1,2-Diphenylhydrazine | 549 U | 170 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4,5-Trichlorophenol | 1100 U | 187 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4,6-Trichlorophenol | 1100 U | 46.2 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4-Dichlorophenol | 549 U | 170 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4-Dimethylphenol | 549 U | 126 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4-Dinitrophenol | 3300 U | 308 | 3300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,4-Dinitrotoluene | 1100 U | 154 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2,6-Dinitrotoluene | 1100 U | 154 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Chloronaphthalene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Chlorophenol | 549 U | 159 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Methylnaphthalene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Methylphenol | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Nitroaniline | 2750 U | 165 | 2750 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Nitrophenol | 1100 U | 42.3 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 3,3'-Dichlorobenzidine | 1100 R | 148 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 3-Nitroaniline | 2750 UJ | 154 | 2750 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4,6-Dinitro-2-methylphenol | 3300 U | 220 | 3300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Bromophenyl phenyl ether | 549 U | 126 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Chloro-3-methylphenol | 1100 U | 148 | 1100 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Chloroaniline | 1100 UJ | 165 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Chlorophenyl phenyl ether | 549 U | 137 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Methylphenol | 3700 | 335 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Nitroaniline | 549 UJ | 71.4 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 4-Nitrophenol | 2750 U | 220 | 2750 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Acenaphthene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Acenaphthylene | 549 U | 165 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Anthracene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzidine | 8240 R | 1100 | 8240 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (a) pyrene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (b) fluoranthene | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (g,h,i) perylene | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo(a)anthracene | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo(k)fluoranthene | 549 U | 159 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzoic acid | 4820 | 769 | 3300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bis (2-chloroethoxy) methane | 549 U | 192 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bis (2-chloroethyl) ether | 549 U | 165 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Bis (2-ethylhexyl) phthalate | 549 U | 242 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Butyl benzylphthalate | 1100 U | 165 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chrysene | 549 U | 159 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dibenzo (a,h) anthracene | 549 U | 65.9 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dibenzofuran | 549 U | 148 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Diethyl phthalate | 549 U | 154 | 549 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dimethyl phthalate | 549 U | 165 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Di-n-butylphthalate | 1100 U | 47.2 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Di-n-octylphthalate | 1100 U | 60.4 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Fluoranthene | 1100 U | 154 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Fluorene | 549 U | 159 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Hexachlorobenzene | 549 U | 22.5 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Hexachlorobutadiene | 549 U | 137 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Hexachlorocyclopentadiene | 549 U | 45 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Hexachloroethane | 549 U | 143 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 549 U | 87.9 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Naphthalene | 225 J | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Nitrobenzene | 1100 U | 54.9 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | n-Nitrosodi-n-propylamine | 1100 U | 165 | 1100 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | n-Nitrosodiphenylamine | 549 U | 187 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Pentachlorophenol | 3300 U | 76.9 | 3300 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Phenanthrene | 549 U | 154 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Phenol | 549 UJ | 93.4 | 549 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Pyrene | 549 U | 65.9 | 549 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,4,5-Trichlorophenol | 20.8 U | 3.5 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,4,6-Trichlorophenol | 20.8 U | 0.88 | 20.8 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,4-Dinitrophenol | 62.5 U | 5.8 | 62.5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,4-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2,6-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Nitroaniline | 52.1 U | 3.1 | 52.1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Nitrophenol | 20.8 U | 0.8 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 3-Nitroaniline | 52.1 U | 2.9 | 52.1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.5 U | 4.2 | 62.5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Chloro-3-methylphenol | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Chloroaniline | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Methylphenol | 20.8 U | 6.4 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.4 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 4-Nitrophenol | 52.1 UJ | 4.2 | 52.1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzidine | 156 U | 20.8 | 156 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzoic acid | 62.5 U | 14.6 | 62.5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Butyl benzylphthalate | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dimethyl phthalate | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Di-n-butylphthalate | 20.8 U | 0.9 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Di-n-octylphthalate | 20.8 U | 1.1 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Fluoranthene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.43 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.7 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Nitrobenzene | 20.8 U | 1 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Pentachlorophenol | 62.5 U | 1.4 | 62.5 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Dichlorobenzene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,2-Diphenylhydrazine | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1,3-Dinitrobenzene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4,5-Trichlorophenol | 20.6 U | 3.5 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4,6-Trichlorophenol | 20.6 U | 0.86 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4-Dichlorophenol | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4-Dimethylphenol | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4-Dinitrophenol | 61.8 U | 5.8 | 61.8 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,4-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2,6-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Chloronaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Chlorophenol | 10.3 U | 3 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | 2-Methylnaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Methylphenol | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Nitroaniline | 51.5 U | 3.1 | 51.5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Nitrophenol | 20.6 U | 0.79 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 3-Nitroaniline | 51.5 U | 2.9 | 51.5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.8 U | 4.1 | 61.8 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Chloro-3-methylphenol | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Chloroaniline | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Methylphenol | 20.6 U | 6.3 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Nitroaniline | 10.3 U | 1.3 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 4-Nitrophenol | 51.5 UJ | 4.1 | 51.5 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Acenaphthene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Acenaphthylene | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Anthracene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzidine | 155 U | 20.6 | 155 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (a) pyrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (b) fluoranthene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (g,h,i) perylene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo(a)anthracene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo(k)fluoranthene | 10.3 U | 3 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | Benzoic acid | 61.8 U | 14.4 | 61.8 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.3 U | 3.6 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bis (2-chloroethyl) ether | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.3 U | 4.5 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Butyl benzylphthalate | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Chrysene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dibenzo (a,h) anthracene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dibenzofuran | 10.3 U | 2.8 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Diethyl phthalate | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dimethyl phthalate | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Di-n-butylphthalate | 20.6 U | 0.89 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Di-n-octylphthalate | 20.6 U | 1.1 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Fluoranthene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Fluorene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Hexachlorobenzene | 10.3 U | 0.42 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Hexachlorobutadiene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Hexachlorocyclopentadiene | 10.3 U | 0.84 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Hexachloroethane | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.3 U | 1.6 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Naphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Nitrobenzene | 20.6 U | 1 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | n-Nitrosodiphenylamine | 10.3 U | 3.5 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | Pentachlorophenol | 61.8 U | 1.4 | 61.8 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Phenanthrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Phenol | 10.3 UJ | 1.8 | 10.3 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Pyrene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4,5-Trichlorophenol | 20.4 U | 3.5 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4,6-Trichlorophenol | 20.4 U | 0.86 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4-Dinitrophenol | 61.2 U | 5.7 | 61.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,4-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2,6-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Chlorophenol | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Methylphenol | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Nitroaniline | 51 U | 3.1 | 51 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Nitrophenol | 20.4 U | 0.78 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 3-Nitroaniline | 51 U | 2.8 | 51 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.2 U | 4.1 | 61.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Chloro-3-methylphenol | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Chloroaniline | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Methylphenol | 20.4 U | 6.2 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 4-Nitrophenol | 51 UJ | 4.1 | 51 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Acenaphthene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Acenaphthylene | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Anthracene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzidine | 153 U | 20.4 | 153 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzoic acid | 61.2 U | 14.3 | 61.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.2 U | 4.5 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Butyl benzylphthalate | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chrysene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | Dibenzofuran | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Diethyl phthalate | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Dimethyl phthalate | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Di-n-butylphthalate | 20.4 U | 0.88 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Di-n-octylphthalate | 20.4 U | 1.1 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Fluoranthene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Fluorene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.84 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Hexachloroethane | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Naphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Nitrobenzene | 20.4 U | 1 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.5 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Pentachlorophenol | 61.2 U | 1.4 | 61.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Phenanthrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Dichlorobenzene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,2-Diphenylhydrazine | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1,3-Dinitrobenzene | 10.3 U | 2.6 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10613-22042010 | WATER | N | 2,4,5-Trichlorophenol | 20.6 U | 3.5 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,4,6-Trichlorophenol | 20.6 U | 0.86 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,4-Dichlorophenol | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,4-Dimethylphenol | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,4-Dinitrophenol | 61.8 U | 5.8 | 61.8 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,4-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2,6-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Chloronaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Chlorophenol | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Methylnaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Methylphenol | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Nitroaniline | 51.5 U | 3.1 | 51.5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Nitrophenol | 20.6 U | 0.79 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 3-Nitroaniline | 51.5 U | 2.9 | 51.5 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.8 U | 4.1 | 61.8 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Chloro-3-methylphenol | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Chloroaniline | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Methylphenol | 20.6 U | 6.3 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Nitroaniline | 10.3 U | 1.3 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 4-Nitrophenol | 51.5 UJ | 4.1 | 51.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10613-22042010 | WATER | N | Acenaphthene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Acenaphthylene | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Anthracene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzidine | 155 U | 20.6 | 155 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (a) pyrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (b) fluoranthene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (g,h,i) perylene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo(a)anthracene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo(k)fluoranthene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzoic acid | 61.8 U | 14.4 | 61.8 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.3 U | 3.6 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bis (2-chloroethyl) ether | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.3 U | 4.5 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Butyl benzylphthalate | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chrysene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dibenzo (a,h) anthracene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dibenzofuran | 10.3 U | 2.8 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Diethyl phthalate | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dimethyl phthalate | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Di-n-butylphthalate | 20.6 U | 0.89 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Di-n-octylphthalate | 20.6 U | 1.1 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Fluoranthene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Fluorene | 10.3 U | 3 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10613-22042010 | WATER | N | Hexachlorobenzene | 10.3 U | 0.42 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Hexachlorobutadiene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Hexachlorocyclopentadiene | 10.3 U | 0.84 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Hexachloroethane | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.3 U | 1.6 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Naphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Nitrobenzene | 20.6 U | 1 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | n-Nitrosodiphenylamine | 10.3 U | 3.5 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Pentachlorophenol | 61.8 U | 1.4 | 61.8 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Phenanthrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Phenol | 10.3 UJ | 1.8 | 10.3 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Pyrene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Dichlorobenzene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,2-Diphenylhydrazine | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1,3-Dinitrobenzene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4,5-Trichlorophenol | 20.6 U | 3.5 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4,6-Trichlorophenol | 20.6 U | 0.86 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4-Dichlorophenol | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4-Dimethylphenol | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4-Dinitrophenol | 61.8 U | 5.8 | 61.8 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,4-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2,6-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | 2-Chloronaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Chlorophenol | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Methylnaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Methylphenol | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Nitroaniline | 51.5 U | 3.1 | 51.5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Nitrophenol | 20.6 U | 0.79 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 3-Nitroaniline | 51.5 U | 2.9 | 51.5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.8 U | 4.1 | 61.8 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Chloro-3-methylphenol | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Chloroaniline | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Methylphenol | 20.6 U | 6.3 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Nitroaniline | 10.3 U | 1.3 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 4-Nitrophenol | 51.5 UJ | 4.1 | 51.5 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Acenaphthene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Acenaphthylene | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Anthracene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzidine | 155 U | 20.6 | 155 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (a) pyrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (b) fluoranthene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (g,h,i) perylene | 10.3 U | 2.7 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Benzo(a)anthracene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo(k)fluoranthene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzoic acid | 61.8 U | 14.4 | 61.8 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.3 U | 3.6 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bis (2-chloroethyl) ether | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.3 U | 4.5 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Butyl benzylphthalate | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chrysene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dibenzo (a,h) anthracene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dibenzofuran | 10.3 U | 2.8 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Diethyl phthalate | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dimethyl phthalate | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Di-n-butylphthalate | 20.6 U | 0.89 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Di-n-octylphthalate | 20.6 U | 1.1 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Fluoranthene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Fluorene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Hexachlorobenzene | 10.3 U | 0.42 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Hexachlorobutadiene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Hexachlorocyclopentadiene | 10.3 U | 0.84 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Hexachloroethane | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.3 U | 1.6 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Naphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Nitrobenzene | 20.6 U | 1 | 20.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | n-Nitrosodiphenylamine | 10.3 U | 3.5 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Pentachlorophenol | 61.8 U | 1.4 | 61.8 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Phenanthrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Phenol | 10.3 UJ | 1.8 | 10.3 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Pyrene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Dichlorobenzene | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,2-Diphenylhydrazine | 10.9 U | 3.4 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1,3-Dinitrobenzene | 10.9 U | 2.7 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4,5-Trichlorophenol | 21.7 U | 3.7 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4,6-Trichlorophenol | 21.7 U | 0.91 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4-Dichlorophenol | 10.9 U | 3.4 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4-Dimethylphenol | 10.9 U | 2.5 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4-Dinitrophenol | 65.2 U | 6.1 | 65.2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,4-Dinitrotoluene | 21.7 U | 3 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2,6-Dinitrotoluene | 21.7 U | 3 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Chloronaphthalene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Chlorophenol | 10.9 U | 3.2 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Methylnaphthalene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Methylphenol | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Nitroaniline | 54.4 U | 3.3 | 54.4 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Nitrophenol | 21.7 U | 0.84 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 3,3'-Dichlorobenzidine | 21.7 U | 2.9 | 21.7 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | 3-Nitroaniline | 54.4 U | 3 | 54.4 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 65.2 U | 4.3 | 65.2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.9 U | 2.5 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Chloro-3-methylphenol | 21.7 U | 2.9 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Chloroaniline | 21.7 U | 3.3 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.9 U | 2.7 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Methylphenol | 21.7 U | 6.6 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Nitroaniline | 10.9 U | 1.4 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 4-Nitrophenol | 54.4 UJ | 4.3 | 54.4 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Acenaphthene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Acenaphthylene | 10.9 U | 3.3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Anthracene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzidine | 163 U | 21.7 | 163 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (a) pyrene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (b) fluoranthene | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (g,h,i) perylene | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo(a)anthracene | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo(k)fluoranthene | 10.9 U | 3.2 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzoic acid | 65.2 U | 15.2 | 65.2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.9 U | 3.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bis (2-chloroethyl) ether | 10.9 U | 3.3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.9 U | 4.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Butyl benzylphthalate | 21.7 U | 3.3 | 21.7 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | Chrysene | 10.9 U | 3.2 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dibenzo (a,h) anthracene | 10.9 U | 1.3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dibenzofuran | 10.9 U | 2.9 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Diethyl phthalate | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dimethyl phthalate | 10.9 U | 3.3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Di-n-butylphthalate | 21.7 U | 0.93 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Di-n-octylphthalate | 21.7 U | 1.2 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Fluoranthene | 21.7 U | 3 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Fluorene | 10.9 U | 3.2 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Hexachlorobenzene | 10.9 U | 0.44 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Hexachlorobutadiene | 10.9 U | 2.7 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Hexachlorocyclopentadiene | 10.9 U | 0.89 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Hexachloroethane | 10.9 U | 2.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.9 U | 1.7 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Naphthalene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Nitrobenzene | 21.7 U | 1.1 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | n-Nitrosodi-n-propylamine | 21.7 U | 3.3 | 21.7 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | n-Nitrosodiphenylamine | 10.9 U | 3.7 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Pentachlorophenol | 65.2 U | 1.5 | 65.2 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Phenanthrene | 10.9 U | 3 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Phenol | 10.9 UJ | 1.8 | 10.9 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Pyrene | 10.9 U | 1.3 | 10.9 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Dichlorobenzene | 10.5 U | 2.7 | 10.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | 1,2-Diphenylhydrazine | 10.5 U | 3.3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1,3-Dinitrobenzene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4,5-Trichlorophenol | 21 U | 3.6 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4,6-Trichlorophenol | 21 U | 0.88 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4-Dichlorophenol | 10.5 U | 3.3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4-Dimethylphenol | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4-Dinitrophenol | 63.2 U | 5.9 | 63.2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,4-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2,6-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Chloronaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Chlorophenol | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Methylnaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Methylphenol | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Nitroaniline | 52.6 U | 3.2 | 52.6 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Nitrophenol | 21 U | 0.81 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 3,3'-Dichlorobenzidine | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 3-Nitroaniline | 52.6 U | 2.9 | 52.6 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 63.2 U | 4.2 | 63.2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Chloro-3-methylphenol | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Chloroaniline | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Methylphenol | 21 U | 6.4 | 21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | 4-Nitroaniline | 10.5 U | 1.4 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 4-Nitrophenol | 52.6 UJ | 4.2 | 52.6 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Acenaphthene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Acenaphthylene | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Anthracene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzidine | 158 U | 21 | 158 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (a) pyrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (b) fluoranthene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (g,h,i) perylene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo(a)anthracene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo(k)fluoranthene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzoic acid | 63.2 UJ | 14.7 | 63.2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.5 U | 3.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bis (2-chloroethyl) ether | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.5 U | 4.6 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Butyl benzylphthalate | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chrysene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dibenzo (a,h) anthracene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dibenzofuran | 10.5 U | 2.8 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Diethyl phthalate | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dimethyl phthalate | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Di-n-butylphthalate | 21 U | 0.9 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Di-n-octylphthalate | 21 U | 1.2 | 21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | Fluoranthene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Fluorene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Hexachlorobenzene | 10.5 U | 0.43 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Hexachlorobutadiene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Hexachlorocyclopentadiene | 10.5 U | 0.86 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Hexachloroethane | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.5 U | 1.7 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Naphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Nitrobenzene | 21 U | 1 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | n-Nitrosodi-n-propylamine | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | n-Nitrosodiphenylamine | 10.5 U | 3.6 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Pentachlorophenol | 63.2 U | 1.5 | 63.2 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Phenanthrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Phenol | 10.5 UJ | 1.8 | 10.5 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Pyrene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Dichlorobenzene | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,2-Diphenylhydrazine | 10.8 U | 3.3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1,3-Dinitrobenzene | 10.8 U | 2.7 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,4,5-Trichlorophenol | 21.5 U | 3.6 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,4,6-Trichlorophenol | 21.5 U | 0.9 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,4-Dichlorophenol | 10.8 U | 3.3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,4-Dimethylphenol | 10.8 U | 2.5 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,4-Dinitrophenol | 64.5 U | 6 | 64.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | 2,4-Dinitrotoluene | 21.5 U | 3 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2,6-Dinitrotoluene | 21.5 U | 3 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Chloronaphthalene | 10.8 U | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Chlorophenol | 10.8 U | 3.1 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Methylnaphthalene | 12.2 | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Methylphenol | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Nitroaniline | 53.8 U | 3.2 | 53.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Nitrophenol | 21.5 U | 0.83 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 3,3'-Dichlorobenzidine | 21.5 U | 2.9 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 3-Nitroaniline | 53.8 U | 3 | 53.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 64.5 U | 4.3 | 64.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.8 U | 2.5 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Chloro-3-methylphenol | 21.5 U | 2.9 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Chloroaniline | 21.5 U | 3.2 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.8 U | 2.7 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Methylphenol | 21.5 U | 6.6 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Nitroaniline | 10.8 U | 1.4 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 4-Nitrophenol | 53.8 UJ | 4.3 | 53.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Acenaphthene | 10.8 U | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Acenaphthylene | 10.8 U | 3.2 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Anthracene | 10.8 U | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzidine | 161 U | 21.5 | 161 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (a) pyrene | 10.8 U | 3 | 10.8 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (b) fluoranthene | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (g,h,i) perylene | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo(a)anthracene | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo(k)fluoranthene | 10.8 U | 3.1 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzoic acid | 64.5 UJ | 15 | 64.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.8 U | 3.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bis (2-chloroethyl) ether | 10.8 U | 3.2 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 4.8 J | 4.7 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Butyl benzylphthalate | 21.5 U | 3.2 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chrysene | 10.8 U | 3.1 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dibenzo (a,h) anthracene | 10.8 U | 1.3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dibenzofuran | 10.8 U | 2.9 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Diethyl phthalate | 10.8 U | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dimethyl phthalate | 10.8 U | 3.2 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Di-n-butylphthalate | 21.5 U | 0.92 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Di-n-octylphthalate | 3.5 J | 1.2 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Fluoranthene | 21.5 U | 3 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Fluorene | 10.8 U | 3.1 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Hexachlorobenzene | 10.8 U | 0.44 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Hexachlorobutadiene | 10.8 U | 2.7 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Hexachlorocyclopentadiene | 10.8 U | 0.88 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Hexachloroethane | 10.8 U | 2.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.8 U | 1.7 | 10.8 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | Naphthalene | 14.1 | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Nitrobenzene | 21.5 U | 1.1 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | n-Nitrosodi-n-propylamine | 21.5 U | 3.2 | 21.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | n-Nitrosodiphenylamine | 10.8 U | 3.6 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Pentachlorophenol | 64.5 U | 1.5 | 64.5 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Phenanthrene | 10.8 U | 3 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Phenol | 10.8 UJ | 1.8 | 10.8 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Pyrene | 10.8 U | 1.3 | 10.8 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Dichlorobenzene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,2-Diphenylhydrazine | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1,3-Dinitrobenzene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4,5-Trichlorophenol | 20.6 U | 3.5 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4,6-Trichlorophenol | 20.6 U | 0.86 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4-Dichlorophenol | 10.3 U | 3.2 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4-Dimethylphenol | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4-Dinitrophenol | 61.8 U | 5.8 | 61.8 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,4-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2,6-Dinitrotoluene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Chloronaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Chlorophenol | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Methylnaphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Methylphenol | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Nitroaniline | 51.5 U | 3.1 | 51.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | 2-Nitrophenol | 20.6 U | 0.79 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 3-Nitroaniline | 51.5 U | 2.9 | 51.5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.8 U | 4.1 | 61.8 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.3 U | 2.4 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Chloro-3-methylphenol | 20.6 U | 2.8 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Chloroaniline | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Methylphenol | 20.6 U | 6.3 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Nitroaniline | 10.3 U | 1.3 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 4-Nitrophenol | 51.5 UJ | 4.1 | 51.5 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Acenaphthene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Acenaphthylene | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Anthracene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzidine | 155 U | 20.6 | 155 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (a) pyrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (b) fluoranthene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (g,h,i) perylene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo(a)anthracene | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo(k)fluoranthene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzoic acid | 61.8 UJ | 14.4 | 61.8 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.3 U | 3.6 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Bis (2-chloroethyl) ether | 10.3 U | 3.1 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.3 U | 4.5 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Butyl benzylphthalate | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chrysene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dibenzo (a,h) anthracene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dibenzofuran | 10.3 U | 2.8 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Diethyl phthalate | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dimethyl phthalate | 10.3 U | 3.1 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Di-n-butylphthalate | 20.6 U | 0.89 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Di-n-octylphthalate | 20.6 U | 1.1 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Fluoranthene | 20.6 U | 2.9 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Fluorene | 10.3 U | 3 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Hexachlorobenzene | 10.3 U | 0.42 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Hexachlorobutadiene | 10.3 U | 2.6 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Hexachlorocyclopentadiene | 10.3 U | 0.84 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Hexachloroethane | 10.3 U | 2.7 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.3 U | 1.6 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Naphthalene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Nitrobenzene | 20.6 U | 1 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.6 U | 3.1 | 20.6 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | n-Nitrosodiphenylamine | 10.3 U | 3.5 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Pentachlorophenol | 61.8 U | 1.4 | 61.8 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Phenanthrene | 10.3 U | 2.9 | 10.3 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Phenol | 10.3 UJ | 1.8 | 10.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10619-20042010 | WATER | N | Pyrene | 10.3 U | 1.2 | 10.3 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Dichlorobenzene | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,2-Diphenylhydrazine | 11.1 U | 3.4 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1,3-Dinitrobenzene | 11.1 U | 2.8 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4,5-Trichlorophenol | 22.2 U | 3.8 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4,6-Trichlorophenol | 22.2 U | 0.93 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4-Dichlorophenol | 11.1 U | 3.4 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4-Dimethylphenol | 11.1 U | 2.6 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4-Dinitrophenol | 66.7 U | 6.2 | 66.7 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,4-Dinitrotoluene | 22.2 U | 3.1 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2,6-Dinitrotoluene | 22.2 U | 3.1 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Chloronaphthalene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Chlorophenol | 11.1 U | 3.2 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Methylnaphthalene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Methylphenol | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Nitroaniline | 55.6 U | 3.3 | 55.6 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Nitrophenol | 22.2 U | 0.86 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 3,3'-Dichlorobenzidine | 22.2 U | 3 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 3-Nitroaniline | 55.6 U | 3.1 | 55.6 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 66.7 U | 4.4 | 66.7 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Bromophenyl phenyl ether | 11.1 U | 2.6 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Chloro-3-methylphenol | 22.2 U | 3 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Chloroaniline | 22.2 U | 3.3 | 22.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | 4-Chlorophenyl phenyl ether | 11.1 U | 2.8 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Methylphenol | 22.2 U | 6.8 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Nitroaniline | 11.1 U | 1.4 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 4-Nitrophenol | 55.6 UJ | 4.4 | 55.6 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Acenaphthene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Acenaphthylene | 11.1 U | 3.3 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Anthracene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzidine | 167 U | 22.2 | 167 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (a) pyrene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (b) fluoranthene | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (g,h,i) perylene | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo(a)anthracene | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo(k)fluoranthene | 11.1 U | 3.2 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzoic acid | 66.7 U | 15.6 | 66.7 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bis (2-chloroethoxy) methane | 11.1 U | 3.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bis (2-chloroethyl) ether | 11.1 U | 3.3 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 11.1 U | 4.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Butyl benzylphthalate | 22.2 U | 3.3 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chrysene | 11.1 U | 3.2 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dibenzo (a,h) anthracene | 11.1 U | 1.3 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dibenzofuran | 11.1 U | 3 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Diethyl phthalate | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dimethyl phthalate | 11.1 U | 3.3 | 11.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | Di-n-butylphthalate | 22.2 U | 0.96 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Di-n-octylphthalate | 22.2 U | 1.2 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Fluoranthene | 22.2 U | 3.1 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Fluorene | 11.1 U | 3.2 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Hexachlorobenzene | 11.1 U | 0.46 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Hexachlorobutadiene | 11.1 U | 2.8 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Hexachlorocyclopentadiene | 11.1 U | 0.91 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Hexachloroethane | 11.1 U | 2.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 11.1 U | 1.8 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Naphthalene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Nitrobenzene | 22.2 U | 1.1 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | n-Nitrosodi-n-propylamine | 22.2 U | 3.3 | 22.2 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | n-Nitrosodiphenylamine | 11.1 U | 3.8 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Pentachlorophenol | 66.7 U | 1.6 | 66.7 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Phenanthrene | 11.1 U | 3.1 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Phenol | 11.1 UJ | 1.9 | 11.1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Pyrene | 11.1 U | 1.3 | 11.1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Dichlorobenzene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,2-Diphenylhydrazine | 10.6 U | 3.3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1,3-Dinitrobenzene | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,4,5-Trichlorophenol | 21.2 U | 3.6 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,4,6-Trichlorophenol | 21.2 U | 0.89 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,4-Dichlorophenol | 10.6 U | 3.3 | 10.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | 2,4-Dimethylphenol | 10.6 U | 2.4 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,4-Dinitrophenol | 63.5 U | 5.9 | 63.5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,4-Dinitrotoluene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2,6-Dinitrotoluene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Chloronaphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Chlorophenol | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Methylnaphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Methylphenol | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Nitroaniline | 52.9 U | 3.2 | 52.9 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Nitrophenol | 21.2 U | 0.81 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 3,3'-Dichlorobenzidine | 21.2 U | 2.8 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 3-Nitroaniline | 52.9 U | 3 | 52.9 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 63.5 U | 4.2 | 63.5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.6 U | 2.4 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Chloro-3-methylphenol | 21.2 U | 2.8 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Chloroaniline | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Methylphenol | 21.2 U | 6.4 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Nitroaniline | 10.6 U | 1.4 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 4-Nitrophenol | 52.9 UJ | 4.2 | 52.9 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Acenaphthene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Acenaphthylene | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Anthracene | 10.6 U | 3 | 10.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | Benzidine | 159 U | 21.2 | 159 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (a) pyrene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (b) fluoranthene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (g,h,i) perylene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo(a)anthracene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo(k)fluoranthene | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzoic acid | 63.5 U | 14.8 | 63.5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.6 U | 3.7 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bis (2-chloroethyl) ether | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.6 U | 4.6 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Butyl benzylphthalate | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chrysene | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dibenzo (a,h) anthracene | 10.6 U | 1.3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dibenzofuran | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Diethyl phthalate | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dimethyl phthalate | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Di-n-butylphthalate | 21.2 U | 0.91 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Di-n-octylphthalate | 21.2 U | 1.2 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Fluoranthene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Fluorene | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Hexachlorobenzene | 10.6 U | 0.43 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Hexachlorobutadiene | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Hexachlorocyclopentadiene | 10.6 U | 0.87 | 10.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | Hexachloroethane | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.6 U | 1.7 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Naphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Nitrobenzene | 21.2 U | 1 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | n-Nitrosodi-n-propylamine | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | n-Nitrosodiphenylamine | 10.6 U | 3.6 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Pentachlorophenol | 63.5 U | 1.5 | 63.5 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Phenanthrene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Phenol | 10.6 UJ | 1.8 | 10.6 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Pyrene | 10.6 U | 1.3 | 10.6 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Dichlorobenzene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,2-Diphenylhydrazine | 10.5 U | 3.3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1,3-Dinitrobenzene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4,5-Trichlorophenol | 21 U | 3.6 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4,6-Trichlorophenol | 21 U | 0.88 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4-Dichlorophenol | 10.5 U | 3.3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4-Dimethylphenol | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4-Dinitrophenol | 63.2 U | 5.9 | 63.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,4-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2,6-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Chloronaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Chlorophenol | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Methylnaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | 2-Methylphenol | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Nitroaniline | 52.6 U | 3.2 | 52.6 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Nitrophenol | 21 U | 0.81 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 3,3'-Dichlorobenzidine | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 3-Nitroaniline | 52.6 U | 2.9 | 52.6 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 63.2 U | 4.2 | 63.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Chloro-3-methylphenol | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Chloroaniline | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Methylphenol | 21 U | 6.4 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Nitroaniline | 10.5 U | 1.4 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 4-Nitrophenol | 52.6 UJ | 4.2 | 52.6 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Acenaphthene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Acenaphthylene | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Anthracene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzidine | 158 U | 21 | 158 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (a) pyrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (b) fluoranthene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (g,h,i) perylene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo(a)anthracene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo(k)fluoranthene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzoic acid | 63.2 UJ | 14.7 | 63.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.5 U | 3.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bis (2-chloroethyl) ether | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 6.7 J | 4.6 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Butyl benzylphthalate | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chrysene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dibenzo (a,h) anthracene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dibenzofuran | 10.5 U | 2.8 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Diethyl phthalate | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dimethyl phthalate | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Di-n-butylphthalate | 1.8 J | 0.9 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Di-n-octylphthalate | 21 U | 1.2 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Fluoranthene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Fluorene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Hexachlorobenzene | 10.5 U | 0.43 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Hexachlorobutadiene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Hexachlorocyclopentadiene | 10.5 U | 0.86 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Hexachloroethane | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.5 U | 1.7 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Naphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Nitrobenzene | 21 U | 1 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | n-Nitrosodi-n-propylamine | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | n-Nitrosodiphenylamine | 10.5 U | 3.6 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Pentachlorophenol | 63.2 U | 1.5 | 63.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | Phenanthrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Phenol | 2.3 J | 1.8 | 10.5 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Pyrene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4,5-Trichlorophenol | 20.4 U | 3.5 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4,6-Trichlorophenol | 20.4 U | 0.86 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4-Dinitrophenol | 61.2 U | 5.7 | 61.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,4-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2,6-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Chlorophenol | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Methylphenol | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Nitroaniline | 51 U | 3.1 | 51 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Nitrophenol | 20.4 U | 0.78 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 3-Nitroaniline | 51 U | 2.8 | 51 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.2 U | 4.1 | 61.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.3 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | 4-Chloro-3-methylphenol | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Chloroaniline | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Methylphenol | 20.4 U | 6.2 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 4-Nitrophenol | 51 UJ | 4.1 | 51 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Acenaphthene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Acenaphthylene | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Anthracene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzidine | 153 U | 20.4 | 153 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzoic acid | 61.2 U | 14.3 | 61.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 19.4 | 4.5 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Butyl benzylphthalate | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chrysene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dibenzofuran | 10.2 U | 2.8 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-1062-30042010 | WATER | N | Diethyl phthalate | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dimethyl phthalate | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Di-n-butylphthalate | 20.4 U | 0.88 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Di-n-octylphthalate | 20.4 U | 1.1 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Fluoranthene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Fluorene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.84 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Hexachloroethane | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Naphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Nitrobenzene | 20.4 U | 1 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.5 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Pentachlorophenol | 61.2 U | 1.4 | 61.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Phenanthrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,4,5-Trichlorophenol | 20.3 U | 3.4 | 20.3 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | 2,4,6-Trichlorophenol | 20.3 U | 0.85 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,4-Dinitrophenol | 60.9 U | 5.7 | 60.9 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,4-Dinitrotoluene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2,6-Dinitrotoluene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Chlorophenol | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Methylphenol | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Nitroaniline | 50.8 U | 3 | 50.8 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 2-Nitrophenol | 20.3 U | 0.78 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.3 U | 2.7 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 3-Nitroaniline | 50.8 U | 2.8 | 50.8 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 60.9 U | 4.1 | 60.9 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Chloro-3-methylphenol | 20.3 U | 2.7 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Chloroaniline | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Methylphenol | 20.3 U | 6.2 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 4-Nitrophenol | 50.8 UJ | 4.1 | 50.8 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Acenaphthene | 10.2 U | 2.8 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | Acenaphthylene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Anthracene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzidine | 152 U | 20.3 | 152 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzoic acid | 60.9 UJ | 14.2 | 60.9 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.2 U | 4.5 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Butyl benzylphthalate | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chrysene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dibenzofuran | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Diethyl phthalate | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dimethyl phthalate | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Di-n-butylphthalate | 1.5 J | 0.87 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Di-n-octylphthalate | 20.3 U | 1.1 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Fluoranthene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Fluorene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.83 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Hexachloroethane | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Naphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Nitrobenzene | 20.3 U | 1 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.4 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Pentachlorophenol | 60.9 U | 1.4 | 60.9 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Phenanthrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Phenol | 1.9 J | 1.7 | 10.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Dichlorobenzene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,2-Diphenylhydrazine | 10.1 U | 3.1 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1,3-Dinitrobenzene | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4,5-Trichlorophenol | 20.2 U | 3.4 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4,6-Trichlorophenol | 20.2 U | 0.85 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4-Dichlorophenol | 10.1 U | 3.1 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4-Dimethylphenol | 10.1 U | 2.3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4-Dinitrophenol | 60.6 U | 5.6 | 60.6 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,4-Dinitrotoluene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2,6-Dinitrotoluene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Chloronaphthalene | 10.1 U | 2.8 | 10.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | 2-Chlorophenol | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Methylnaphthalene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Methylphenol | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Nitroaniline | 50.5 U | 3 | 50.5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Nitrophenol | 20.2 U | 0.78 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.2 U | 2.7 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 3-Nitroaniline | 50.5 U | 2.8 | 50.5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 60.6 U | 4 | 60.6 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.1 U | 2.3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Chloro-3-methylphenol | 20.2 U | 2.7 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Chloroaniline | 20.2 U | 3 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Methylphenol | 20.2 U | 6.2 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Nitroaniline | 10.1 U | 1.3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 4-Nitrophenol | 50.5 UJ | 4 | 50.5 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Acenaphthene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Acenaphthylene | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Anthracene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzidine | 152 R | 20.2 | 152 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (a) pyrene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (b) fluoranthene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (g,h,i) perylene | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo(a)anthracene | 10.1 U | 2.6 | 10.1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | Benzo(k)fluoranthene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzoic acid | 60.6 UJ | 14.1 | 60.6 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.1 U | 3.5 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bis (2-chloroethyl) ether | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.1 U | 4.4 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Butyl benzylphthalate | 20.2 U | 3 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chrysene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dibenzo (a,h) anthracene | 10.1 U | 1.2 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dibenzofuran | 10.1 U | 2.7 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Diethyl phthalate | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dimethyl phthalate | 10.1 U | 3 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Di-n-butylphthalate | 20.2 U | 0.87 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Di-n-octylphthalate | 20.2 U | 1.1 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Fluoranthene | 20.2 U | 2.8 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Fluorene | 10.1 U | 2.9 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Hexachlorobenzene | 10.1 U | 0.41 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Hexachlorobutadiene | 10.1 U | 2.5 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Hexachlorocyclopentadiene | 10.1 U | 0.83 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Hexachloroethane | 10.1 U | 2.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.1 U | 1.6 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Naphthalene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Nitrobenzene | 20.2 U | 1 | 20.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.2 U | 3 | 20.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | n-Nitrosodiphenylamine | 10.1 U | 3.4 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Pentachlorophenol | 60.6 U | 1.4 | 60.6 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Phenanthrene | 10.1 U | 2.8 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Phenol | 3.7 J | 1.7 | 10.1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Pyrene | 10.1 U | 1.2 | 10.1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Dichlorobenzene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,2-Diphenylhydrazine | 10.6 U | 3.3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1,3-Dinitrobenzene | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4,5-Trichlorophenol | 21.2 U | 3.6 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4,6-Trichlorophenol | 21.2 U | 0.89 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4-Dichlorophenol | 10.6 U | 3.3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4-Dimethylphenol | 10.6 U | 2.4 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4-Dinitrophenol | 63.5 U | 5.9 | 63.5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,4-Dinitrotoluene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2,6-Dinitrotoluene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Chloronaphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Chlorophenol | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Methylnaphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Methylphenol | 4.9 J | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Nitroaniline | 52.9 U | 3.2 | 52.9 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Nitrophenol | 21.2 U | 0.81 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 3,3'-Dichlorobenzidine | 21.2 U | 2.8 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 3-Nitroaniline | 52.9 U | 3 | 52.9 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 63.5 U | 4.2 | 63.5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.6 U | 2.4 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Chloro-3-methylphenol | 21.2 U | 2.8 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Chloroaniline | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Methylphenol | 21.2 U | 6.4 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Nitroaniline | 10.6 U | 1.4 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 4-Nitrophenol | 52.9 UJ | 4.2 | 52.9 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Acenaphthene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Acenaphthylene | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Anthracene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzidine | 159 U | 21.2 | 159 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (a) pyrene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (b) fluoranthene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (g,h,i) perylene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo(a)anthracene | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo(k)fluoranthene | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzoic acid | 63.5 U | 14.8 | 63.5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.6 U | 3.7 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bis (2-chloroethyl) ether | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.6 U | 4.6 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Butyl benzylphthalate | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chrysene | 10.6 U | 3.1 | 10.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | Dibenzo (a,h) anthracene | 10.6 U | 1.3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Dibenzofuran | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Diethyl phthalate | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Dimethyl phthalate | 10.6 U | 3.2 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Di-n-butylphthalate | 21.2 U | 0.91 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Di-n-octylphthalate | 21.2 U | 1.2 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Fluoranthene | 21.2 U | 3 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Fluorene | 10.6 U | 3.1 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Hexachlorobenzene | 10.6 U | 0.43 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Hexachlorobutadiene | 10.6 U | 2.6 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Hexachlorocyclopentadiene | 10.6 U | 0.87 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Hexachloroethane | 10.6 U | 2.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.6 U | 1.7 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Naphthalene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Nitrobenzene | 21.2 U | 1 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | n-Nitrosodi-n-propylamine | 21.2 U | 3.2 | 21.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | n-Nitrosodiphenylamine | 10.6 U | 3.6 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Pentachlorophenol | 63.5 U | 1.5 | 63.5 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Phenanthrene | 10.6 U | 3 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Phenol | 10.6 UJ | 1.8 | 10.6 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Pyrene | 10.6 U | 1.3 | 10.6 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Dichlorobenzene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1,2-Diphenylhydrazine | 10.5 U | 3.3 | 10.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | 1,3-Dinitrobenzene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4,5-Trichlorophenol | 21 U | 3.6 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4,6-Trichlorophenol | 21 U | 0.88 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4-Dichlorophenol | 10.5 U | 3.3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4-Dimethylphenol | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4-Dinitrophenol | 63.2 U | 5.9 | 63.2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,4-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2,6-Dinitrotoluene | 21 U | 2.9 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Chloronaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Chlorophenol | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Methylnaphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Methylphenol | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Nitroaniline | 52.6 U | 3.2 | 52.6 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Nitrophenol | 21 U | 0.81 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 3,3'-Dichlorobenzidine | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 3-Nitroaniline | 52.6 U | 2.9 | 52.6 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 63.2 U | 4.2 | 63.2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.5 U | 2.4 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Chloro-3-methylphenol | 21 U | 2.8 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Chloroaniline | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Methylphenol | 21 U | 6.4 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 4-Nitroaniline | 10.5 U | 1.4 | 10.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | 4-Nitrophenol | 52.6 UJ | 4.2 | 52.6 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Acenaphthene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Acenaphthylene | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Anthracene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzidine | 158 U | 21 | 158 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (a) pyrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (b) fluoranthene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (g,h,i) perylene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo(a)anthracene | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo(k)fluoranthene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzoic acid | 63.2 UJ | 14.7 | 63.2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.5 U | 3.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bis (2-chloroethyl) ether | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.5 U | 4.6 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Butyl benzylphthalate | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chrysene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dibenzo (a,h) anthracene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dibenzofuran | 10.5 U | 2.8 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Diethyl phthalate | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dimethyl phthalate | 10.5 U | 3.2 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Di-n-butylphthalate | 21 U | 0.9 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Di-n-octylphthalate | 21 U | 1.2 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Fluoranthene | 21 U | 2.9 | 21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | Fluorene | 10.5 U | 3 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Hexachlorobenzene | 10.5 U | 0.43 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Hexachlorobutadiene | 10.5 U | 2.6 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Hexachlorocyclopentadiene | 10.5 U | 0.86 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Hexachloroethane | 10.5 U | 2.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.5 U | 1.7 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Naphthalene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Nitrobenzene | 21 U | 1 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | n-Nitrosodi-n-propylamine | 21 U | 3.2 | 21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | n-Nitrosodiphenylamine | 10.5 U | 3.6 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Pentachlorophenol | 63.2 U | 1.5 | 63.2 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Phenanthrene | 10.5 U | 2.9 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Phenol | 10.5 UJ | 1.8 | 10.5 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Pyrene | 10.5 U | 1.3 | 10.5 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4,5-Trichlorophenol | 20.7 U | 3.5 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4,6-Trichlorophenol | 20.7 U | 0.87 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4-Dinitrophenol | 62.2 U | 5.8 | 62.2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2,4-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | 2,6-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Nitroaniline | 51.8 U | 3.1 | 51.8 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Nitrophenol | 20.7 U | 0.8 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.7 U | 2.8 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 3-Nitroaniline | 51.8 U | 2.9 | 51.8 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.2 U | 4.1 | 62.2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Chloro-3-methylphenol | 20.7 U | 2.8 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Chloroaniline | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Methylphenol | 20.7 U | 6.3 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.3 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 4-Nitrophenol | 51.8 U | 4.1 | 51.8 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzidine | 155 U | 20.7 | 155 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzoic acid | 62.2 U | 14.5 | 62.2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Butyl benzylphthalate | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dimethyl phthalate | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Di-n-butylphthalate | 20.7 U | 0.89 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Di-n-octylphthalate | 20.7 U | 1.1 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Fluoranthene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.42 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.6 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-10627-05052010 | WATER | N | Nitrobenzene | 20.7 U | 1 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Pentachlorophenol | 62.2 U | 1.4 | 62.2 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4,5-Trichlorophenol | 20.8 U | 3.5 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4,6-Trichlorophenol | 20.8 U | 0.88 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4-Dinitrophenol | 62.5 U | 5.8 | 62.5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,4-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2,6-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Nitroaniline | 52.1 U | 3.1 | 52.1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Nitrophenol | 20.8 U | 0.8 | 20.8 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 3-Nitroaniline | 52.1 U | 2.9 | 52.1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.5 U | 4.2 | 62.5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Chloro-3-methylphenol | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Chloroaniline | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Methylphenol | 20.8 U | 6.4 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.4 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 4-Nitrophenol | 52.1 UJ | 4.2 | 52.1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzidine | 156 U | 20.8 | 156 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzoic acid | 62.5 U | 14.6 | 62.5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | Butyl benzylphthalate | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dimethyl phthalate | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Di-n-butylphthalate | 20.8 U | 0.9 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Di-n-octylphthalate | 4.5 J | 1.1 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Fluoranthene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.43 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.7 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Nitrobenzene | 20.8 U | 1 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Pentachlorophenol | 62.5 U | 1.4 | 62.5 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4,5-Trichlorophenol | 20.5 U | 3.5 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4,6-Trichlorophenol | 20.5 U | 0.86 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.4 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4-Dinitrophenol | 61.5 U | 5.7 | 61.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,4-Dinitrotoluene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2,6-Dinitrotoluene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Chlorophenol | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Methylphenol | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Nitroaniline | 51.3 U | 3.1 | 51.3 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Nitrophenol | 20.5 U | 0.79 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.5 U | 2.8 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 3-Nitroaniline | 51.3 U | 2.9 | 51.3 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.5 U | 4.1 | 61.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.4 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Chloro-3-methylphenol | 20.5 U | 2.8 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Chloroaniline | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.6 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | 4-Methylphenol | 20.5 U | 6.2 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 4-Nitrophenol | 51.3 U | 4.1 | 51.3 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Acenaphthene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Acenaphthylene | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Anthracene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzidine | 154 U | 20.5 | 154 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzoic acid | 61.5 U | 14.4 | 61.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 14 | 4.5 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Butyl benzylphthalate | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chrysene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dibenzofuran | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Diethyl phthalate | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dimethyl phthalate | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Di-n-butylphthalate | 20.5 U | 0.88 | 20.5 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | Di-n-octylphthalate | 20.5 U | 1.1 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Fluoranthene | 20.5 U | 2.9 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Fluorene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.84 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Hexachloroethane | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Naphthalene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Nitrobenzene | 20.5 U | 1 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.5 U | 3.1 | 20.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.5 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Pentachlorophenol | 61.5 U | 1.4 | 61.5 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Phenanthrene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,4,5-Trichlorophenol | 20.7 U | 3.5 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,4,6-Trichlorophenol | 20.7 U | 0.87 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | 2,4-Dinitrophenol | 62.2 U | 5.8 | 62.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,4-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2,6-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Nitroaniline | 51.8 U | 3.1 | 51.8 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Nitrophenol | 20.7 U | 0.8 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 3,3'-Dichlorobenzidine | 20.7 U | 2.8 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 3-Nitroaniline | 51.8 U | 2.9 | 51.8 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.2 U | 4.1 | 62.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Chloro-3-methylphenol | 20.7 U | 2.8 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Chloroaniline | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Methylphenol | 20.7 U | 6.3 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.3 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 4-Nitrophenol | 51.8 UJ | 4.1 | 51.8 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzidine | 155 U | 20.7 | 155 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzoic acid | 62.2 U | 14.5 | 62.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Butyl benzylphthalate | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dimethyl phthalate | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Di-n-butylphthalate | 20.7 U | 0.89 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Di-n-octylphthalate | 20.7 U | 1.1 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Fluoranthene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.42 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.6 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Nitrobenzene | 20.7 U | 1 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | n-Nitrosodi-n-propylamine | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Pentachlorophenol | 62.2 U | 1.4 | 62.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4,5-Trichlorophenol | 20.3 U | 3.4 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4,6-Trichlorophenol | 20.3 U | 0.85 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4-Dinitrophenol | 60.9 U | 5.7 | 60.9 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,4-Dinitrotoluene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2,6-Dinitrotoluene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Chlorophenol | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Methylphenol | 10.2 U | 2.6 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Nitroaniline | 50.8 U | 3 | 50.8 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Nitrophenol | 20.3 U | 0.78 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.3 U | 2.7 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 3-Nitroaniline | 50.8 U | 2.8 | 50.8 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 60.9 U | 4.1 | 60.9 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Chloro-3-methylphenol | 20.3 U | 2.7 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Chloroaniline | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Methylphenol | 20.3 U | 6.2 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 4-Nitrophenol | 50.8 U | 4.1 | 50.8 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Acenaphthene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Acenaphthylene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Anthracene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzidine | 152 U | 20.3 | 152 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzoic acid | 60.9 U | 14.2 | 60.9 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.2 U | 4.5 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Butyl benzylphthalate | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chrysene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dibenzofuran | 10.2 U | 2.7 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Diethyl phthalate | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dimethyl phthalate | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Di-n-butylphthalate | 20.3 U | 0.87 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Di-n-octylphthalate | 20.3 U | 1.1 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Fluoranthene | 20.3 U | 2.8 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Fluorene | 10.2 U | 2.9 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.5 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.83 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Hexachloroethane | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Naphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Nitrobenzene | 20.3 U | 1 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.3 U | 3 | 20.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.4 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Pentachlorophenol | 60.9 U | 1.4 | 60.9 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Phenanthrene | 10.2 U | 2.8 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-2819RC-05052010 | WATER | N | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4,5-Trichlorophenol | 20.7 U | 3.5 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4,6-Trichlorophenol | 20.7 U | 0.87 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4-Dinitrophenol | 62.2 U | 5.8 | 62.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,4-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2,6-Dinitrotoluene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Nitroaniline | 51.8 U | 3.1 | 51.8 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Nitrophenol | 20.7 U | 0.8 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.7 U | 2.8 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 3-Nitroaniline | 51.8 U | 2.9 | 51.8 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.2 U | 4.1 | 62.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Chloro-3-methylphenol | 20.7 U | 2.8 | 20.7 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | 4-Chloroaniline | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Methylphenol | 20.7 U | 6.3 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.3 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 4-Nitrophenol | 51.8 UJ | 4.1 | 51.8 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzidine | 155 U | 20.7 | 155 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzoic acid | 62.2 U | 14.5 | 62.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Butyl benzylphthalate | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | Dimethyl phthalate | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Di-n-butylphthalate | 20.7 U | 0.89 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Di-n-octylphthalate | 20.7 U | 1.1 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Fluoranthene | 20.7 U | 2.9 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.42 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.6 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Nitrobenzene | 20.7 U | 1 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.7 U | 3.1 | 20.7 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Pentachlorophenol | 62.2 U | 1.4 | 62.2 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Dichlorobenzene | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,2-Diphenylhydrazine | 11 U | 3.4 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1,3-Dinitrobenzene | 11 U | 2.7 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4,5-Trichlorophenol | 22 U | 3.7 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4,6-Trichlorophenol | 22 U | 0.92 | 22 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4-Dichlorophenol | 11 U | 3.4 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4-Dimethylphenol | 11 U | 2.5 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4-Dinitrophenol | 65.9 U | 6.2 | 65.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,4-Dinitrotoluene | 22 U | 3.1 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2,6-Dinitrotoluene | 22 U | 3.1 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Chloronaphthalene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Chlorophenol | 11 U | 3.2 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Methylnaphthalene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Methylphenol | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Nitroaniline | 54.9 U | 3.3 | 54.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Nitrophenol | 22 U | 0.85 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 3,3'-Dichlorobenzidine | 22 U | 3 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 3-Nitroaniline | 54.9 U | 3.1 | 54.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 65.9 U | 4.4 | 65.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Bromophenyl phenyl ether | 11 U | 2.5 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Chloro-3-methylphenol | 22 U | 3 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Chloroaniline | 22 U | 3.3 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Chlorophenyl phenyl ether | 11 U | 2.7 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Methylphenol | 22 U | 6.7 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Nitroaniline | 11 U | 1.4 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4-Nitrophenol | 54.9 U | 4.4 | 54.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Acenaphthene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Acenaphthylene | 11 U | 3.3 | 11 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | Anthracene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzidine | 165 U | 22 | 165 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (a) pyrene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (b) fluoranthene | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (g,h,i) perylene | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo(a)anthracene | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo(k)fluoranthene | 11 U | 3.2 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzoic acid | 65.9 UJ | 15.4 | 65.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bis (2-chloroethoxy) methane | 11 U | 3.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bis (2-chloroethyl) ether | 11 U | 3.3 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 11 U | 4.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Butyl benzylphthalate | 22 U | 3.3 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chrysene | 11 U | 3.2 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dibenzo (a,h) anthracene | 11 U | 1.3 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dibenzofuran | 11 U | 3 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Diethyl phthalate | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dimethyl phthalate | 11 U | 3.3 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Di-n-butylphthalate | 22 U | 0.94 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Di-n-octylphthalate | 22 U | 1.2 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Fluoranthene | 22 U | 3.1 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Fluorene | 11 U | 3.2 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Hexachlorobenzene | 11 U | 0.45 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Hexachlorobutadiene | 11 U | 2.7 | 11 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | Hexachlorocyclopentadiene | 11 U | 0.9 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Hexachloroethane | 11 U | 2.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 11 U | 1.8 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Naphthalene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Nitrobenzene | 22 U | 1.1 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | n-Nitrosodi-n-propylamine | 22 U | 3.3 | 22 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | n-Nitrosodiphenylamine | 11 U | 3.7 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Pentachlorophenol | 65.9 U | 1.5 | 65.9 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Phenanthrene | 11 U | 3.1 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Phenol | 11 UJ | 1.9 | 11 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Pyrene | 11 U | 1.3 | 11 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Dichlorobenzene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,2-Diphenylhydrazine | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1,3-Dinitrobenzene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4,5-Trichlorophenol | 20.8 U | 3.5 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4,6-Trichlorophenol | 20.8 U | 0.88 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4-Dichlorophenol | 10.4 U | 3.2 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4-Dimethylphenol | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4-Dinitrophenol | 62.5 U | 5.8 | 62.5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,4-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2,6-Dinitrotoluene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Chloronaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Chlorophenol | 10.4 U | 3 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Methylnaphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Methylphenol | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Nitroaniline | 52.1 U | 3.1 | 52.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Nitrophenol | 20.8 U | 0.8 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 3-Nitroaniline | 52.1 U | 2.9 | 52.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 62.5 U | 4.2 | 62.5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.4 U | 2.4 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Chloro-3-methylphenol | 20.8 U | 2.8 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Chloroaniline | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Methylphenol | 20.8 U | 6.4 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Nitroaniline | 10.4 U | 1.4 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4-Nitrophenol | 52.1 U | 4.2 | 52.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Acenaphthene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Acenaphthylene | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Anthracene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzidine | 156 U | 20.8 | 156 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (a) pyrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (b) fluoranthene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (g,h,i) perylene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo(a)anthracene | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo(k)fluoranthene | 10.4 U | 3 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzoic acid | 62.5 UJ | 14.6 | 62.5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.4 U | 3.6 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bis (2-chloroethyl) ether | 10.4 U | 3.1 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.4 U | 4.6 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Butyl benzylphthalate | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chrysene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dibenzo (a,h) anthracene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dibenzofuran | 10.4 U | 2.8 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Diethyl phthalate | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dimethyl phthalate | 6.2 J | 3.1 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Di-n-butylphthalate | 20.8 U | 0.9 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Di-n-octylphthalate | 20.8 U | 1.1 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Fluoranthene | 20.8 U | 2.9 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Fluorene | 10.4 U | 3 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Hexachlorobenzene | 10.4 U | 0.43 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Hexachlorobutadiene | 10.4 U | 2.6 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Hexachlorocyclopentadiene | 10.4 U | 0.85 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Hexachloroethane | 10.4 U | 2.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.4 U | 1.7 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Naphthalene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Nitrobenzene | 20.8 U | 1 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.8 U | 3.1 | 20.8 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | n-Nitrosodiphenylamine | 10.4 U | 3.5 | 10.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | Pentachlorophenol | 62.5 U | 1.4 | 62.5 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Phenanthrene | 10.4 U | 2.9 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Phenol | 10.4 UJ | 1.8 | 10.4 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Pyrene | 10.4 U | 1.2 | 10.4 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Dichlorobenzene | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1,2-Diphenylhydrazine | 562 U | 174 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4,5-Trichlorophenol | 1120 U | 191 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4,6-Trichlorophenol | 1120 U | 47.2 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4-Dichlorophenol | 562 U | 174 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4-Dimethylphenol | 562 U | 129 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4-Dinitrophenol | 3370 UJ | 315 | 3370 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,4-Dinitrotoluene | 1120 U | 157 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2,6-Dinitrotoluene | 1120 U | 157 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Chloronaphthalene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Chlorophenol | 562 U | 163 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Methylnaphthalene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Methylphenol | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Nitroaniline | 2810 U | 168 | 2810 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Nitrophenol | 1120 U | 43.2 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 3,3'-Dichlorobenzidine | 1120 U | 152 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 3-Nitroaniline | 2810 U | 157 | 2810 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 3370 U | 225 | 3370 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Bromophenyl phenyl ether | 562 U | 129 | 562 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Chloro-3-methylphenol | 1120 U | 152 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Chloroaniline | 1120 U | 168 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Chlorophenyl phenyl ether | 562 U | 140 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Methylphenol | 1120 U | 343 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Nitroaniline | 562 U | 73 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 4-Nitrophenol | 2810 UJ | 225 | 2810 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Acenaphthene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Acenaphthylene | 562 U | 168 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Anthracene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzidine | 8430 U | 1120 | 8430 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (a) pyrene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (b) fluoranthene | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (g,h,i) perylene | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo(a)anthracene | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo(k)fluoranthene | 562 U | 163 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzoic acid | 3370 UJ | 786 | 3370 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bis (2-chloroethoxy) methane | 293 J | 197 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bis (2-chloroethyl) ether | 562 U | 168 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 562 U | 247 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Butyl benzylphthalate | 1120 U | 168 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chrysene | 562 U | 163 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dibenzo (a,h) anthracene | 562 U | 67.4 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dibenzofuran | 562 U | 152 | 562 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | Diethyl phthalate | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dimethyl phthalate | 562 U | 168 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Di-n-butylphthalate | 1120 U | 48.3 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Di-n-octylphthalate | 1120 U | 61.8 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Fluoranthene | 1120 U | 157 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Fluorene | 562 U | 163 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Hexachlorobenzene | 562 U | 23 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Hexachlorobutadiene | 562 U | 140 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Hexachlorocyclopentadiene | 562 U | 46.1 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Hexachloroethane | 562 U | 146 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 562 U | 89.9 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Naphthalene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Nitrobenzene | 1120 U | 56.2 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | n-Nitrosodi-n-propylamine | 1120 U | 168 | 1120 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | n-Nitrosodiphenylamine | 562 U | 191 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Pentachlorophenol | 3370 U | 78.6 | 3370 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Phenanthrene | 562 U | 157 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Phenol | 562 UJ | 95.5 | 562 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Pyrene | 562 U | 67.4 | 562 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Dichlorobenzene | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1,2-Diphenylhydrazine | 556 U | 172 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4,5-Trichlorophenol | 1110 U | 189 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4,6-Trichlorophenol | 1110 U | 46.7 | 1110 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4-Dichlorophenol | 556 U | 172 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4-Dimethylphenol | 556 U | 128 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4-Dinitrophenol | 3330 U | 311 | 3330 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,4-Dinitrotoluene | 1110 U | 156 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2,6-Dinitrotoluene | 1110 U | 156 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Chloronaphthalene | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Chlorophenol | 556 U | 161 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Methylnaphthalene | 174 J | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Methylphenol | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Nitroaniline | 2780 U | 167 | 2780 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Nitrophenol | 1110 U | 42.8 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 3,3'-Dichlorobenzidine | 1110 R | 150 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 3-Nitroaniline | 2780 UJ | 156 | 2780 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 3330 U | 222 | 3330 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Bromophenyl phenyl ether | 556 U | 128 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Chloro-3-methylphenol | 1110 U | 150 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Chloroaniline | 1110 UJ | 167 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Chlorophenyl phenyl ether | 556 U | 139 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Methylphenol | 4840 | 339 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Nitroaniline | 556 UJ | 72.2 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 4-Nitrophenol | 2780 U | 222 | 2780 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Acenaphthene | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Acenaphthylene | 556 U | 167 | 556 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | Anthracene | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzidine | 8330 R | 1110 | 8330 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (a) pyrene | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (b) fluoranthene | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (g,h,i) perylene | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo(a)anthracene | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo(k)fluoranthene | 556 U | 161 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzoic acid | 3330 U | 778 | 3330 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bis (2-chloroethoxy) methane | 556 U | 194 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bis (2-chloroethyl) ether | 556 U | 167 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 556 U | 244 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Butyl benzylphthalate | 1110 U | 167 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chrysene | 556 U | 161 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dibenzo (a,h) anthracene | 556 U | 66.7 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dibenzofuran | 556 U | 150 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Diethyl phthalate | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dimethyl phthalate | 556 U | 167 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Di-n-butylphthalate | 1110 U | 47.8 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Di-n-octylphthalate | 1110 U | 61.1 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Fluoranthene | 1110 U | 156 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Fluorene | 556 U | 161 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Hexachlorobenzene | 556 U | 22.8 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Hexachlorobutadiene | 556 U | 139 | 556 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-10614-21062010 | WATER | N | Hexachlorocyclopentadiene | 556 U | 45.6 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Hexachloroethane | 556 U | 144 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 556 U | 88.9 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Naphthalene | 301 J | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Nitrobenzene | 1110 U | 55.6 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | n-Nitrosodi-n-propylamine | 1110 U | 167 | 1110 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | n-Nitrosodiphenylamine | 556 U | 189 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Pentachlorophenol | 3330 U | 77.8 | 3330 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Phenanthrene | 556 U | 156 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Phenol | 556 UJ | 94.4 | 556 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Pyrene | 556 U | 66.7 | 556 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Dichlorobenzene | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1,2-Diphenylhydrazine | 549 U | 170 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4,5-Trichlorophenol | 1100 U | 187 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4,6-Trichlorophenol | 1100 U | 46.2 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4-Dichlorophenol | 549 U | 170 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4-Dimethylphenol | 549 U | 126 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4-Dinitrophenol | 3300 UJ | 308 | 3300 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,4-Dinitrotoluene | 1100 U | 154 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2,6-Dinitrotoluene | 1100 U | 154 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Chloronaphthalene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Chlorophenol | 549 U | 159 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Methylnaphthalene | 549 U | 154 | 549 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Methylphenol | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Nitroaniline | 2750 U | 165 | 2750 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Nitrophenol | 1100 U | 42.3 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 3,3'-Dichlorobenzidine | 1100 U | 148 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 3-Nitroaniline | 2750 U | 154 | 2750 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 3300 U | 220 | 3300 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Bromophenyl phenyl ether | 549 U | 126 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Chloro-3-methylphenol | 1100 U | 148 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Chloroaniline | 1100 U | 165 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Chlorophenyl phenyl ether | 549 U | 137 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Methylphenol | 1100 U | 335 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Nitroaniline | 549 U | 71.4 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 4-Nitrophenol | 2750 UJ | 220 | 2750 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Acenaphthene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Acenaphthylene | 549 U | 165 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Anthracene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzidine | 8240 U | 1100 | 8240 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (a) pyrene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (b) fluoranthene | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (g,h,i) perylene | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo(a)anthracene | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo(k)fluoranthene | 549 U | 159 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzoic acid | 3300 UJ | 769 | 3300 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | Bis (2-chloroethoxy) methane | 549 U | 192 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bis (2-chloroethyl) ether | 549 U | 165 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 549 U | 242 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Butyl benzylphthalate | 1100 U | 165 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chrysene | 549 U | 159 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dibenzo (a,h) anthracene | 549 U | 65.9 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dibenzofuran | 549 U | 148 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Diethyl phthalate | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dimethyl phthalate | 549 U | 165 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Di-n-butylphthalate | 1100 U | 47.2 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Di-n-octylphthalate | 1100 U | 60.4 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Fluoranthene | 1100 U | 154 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Fluorene | 549 U | 159 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Hexachlorobenzene | 549 U | 22.5 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Hexachlorobutadiene | 549 U | 137 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Hexachlorocyclopentadiene | 549 U | 45 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Hexachloroethane | 549 U | 143 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 549 U | 87.9 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Naphthalene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Nitrobenzene | 1100 U | 54.9 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | n-Nitrosodi-n-propylamine | 1100 U | 165 | 1100 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | n-Nitrosodiphenylamine | 549 U | 187 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Pentachlorophenol | 3300 U | 76.9 | 3300 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | Phenanthrene | 549 U | 154 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Phenol | 549 UJ | 93.4 | 549 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Pyrene | 549 U | 65.9 | 549 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Dichlorobenzene | 1020 U | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1,2-Diphenylhydrazine | 1020 U | 316 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4,5-Trichlorophenol | 2040 U | 347 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4,6-Trichlorophenol | 2040 U | 85.7 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4-Dichlorophenol | 1020 U | 316 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4-Dimethylphenol | 1020 U | 235 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4-Dinitrophenol | 6120 UJ | 571 | 6120 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,4-Dinitrotoluene | 2040 U | 286 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2,6-Dinitrotoluene | 2040 U | 286 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Chloronaphthalene | 1020 U | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Chlorophenol | 1020 U | 296 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Methylnaphthalene | 824 J | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Methylphenol | 1090 | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Nitroaniline | 5100 U | 306 | 5100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Nitrophenol | 2040 U | 78.6 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 3,3'-Dichlorobenzidine | 2040 U | 276 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 3-Nitroaniline | 5100 U | 286 | 5100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 6120 U | 408 | 6120 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Bromophenyl phenyl ether | 1020 U | 235 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Chloro-3-methylphenol | 2040 U | 276 | 2040 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Chloroaniline | 2040 U | 306 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Chlorophenyl phenyl ether | 1020 U | 255 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Methylphenol | 1300 J | 622 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Nitroaniline | 1020 U | 133 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 4-Nitrophenol | 5100 UJ | 408 | 5100 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Acenaphthene | 1020 U | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Acenaphthylene | 1020 U | 306 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Anthracene | 1020 U | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzidine | 15300 UJ | 2040 | 15300 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (a) pyrene | 1020 U | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (b) fluoranthene | 1020 U | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (g,h,i) perylene | 1020 U | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo(a)anthracene | 1020 U | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo(k)fluoranthene | 1020 U | 296 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzoic acid | 6120 UJ | 1430 | 6120 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bis (2-chloroethoxy) methane | 1020 U | 357 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bis (2-chloroethyl) ether | 1020 U | 306 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 1020 U | 449 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Butyl benzylphthalate | 2040 U | 306 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chrysene | 1020 U | 296 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dibenzo (a,h) anthracene | 1020 U | 122 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dibenzofuran | 1020 U | 276 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Diethyl phthalate | 1020 U | 286 | 1020 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | Dimethyl phthalate | 1020 U | 306 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Di-n-butylphthalate | 2040 U | 87.8 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Di-n-octylphthalate | 2040 U | 112 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Fluoranthene | 2040 U | 286 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Fluorene | 1020 U | 296 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Hexachlorobenzene | 1020 U | 41.8 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Hexachlorobutadiene | 1020 U | 255 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Hexachlorocyclopentadiene | 1020 U | 83.7 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Hexachloroethane | 1020 U | 265 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 1020 U | 163 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Naphthalene | 313 J | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Nitrobenzene | 2040 U | 102 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | n-Nitrosodi-n-propylamine | 2040 U | 306 | 2040 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | n-Nitrosodiphenylamine | 1020 U | 347 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Pentachlorophenol | 6120 U | 143 | 6120 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Phenanthrene | 1020 U | 286 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Phenol | 605 J | 173 | 1020 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Pyrene | 1020 U | 122 | 1020 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Dichlorobenzene | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1,2-Diphenylhydrazine | 20.4 UJ | 6.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4,5-Trichlorophenol | 40.8 UJ | 6.9 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4,6-Trichlorophenol | 40.8 UJ | 1.7 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4-Dichlorophenol | 20.4 UJ | 6.3 | 20.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4-Dimethylphenol | 20.4 UJ | 4.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4-Dinitrophenol | 122 UJ | 11.4 | 122 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,4-Dinitrotoluene | 40.8 UJ | 5.7 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2,6-Dinitrotoluene | 40.8 UJ | 5.7 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Chloronaphthalene | 20.4 UJ | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Chlorophenol | 20.4 UJ | 5.9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Methylnaphthalene | 33 J | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Methylphenol | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Nitroaniline | 102 UJ | 6.1 | 102 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Nitrophenol | 40.8 UJ | 1.6 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 3,3'-Dichlorobenzidine | 40.8 R | 5.5 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 3-Nitroaniline | 102 UJ | 5.7 | 102 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 122 UJ | 8.2 | 122 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Bromophenyl phenyl ether | 20.4 UJ | 4.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Chloro-3-methylphenol | 40.8 UJ | 5.5 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Chloroaniline | 40.8 UJ | 6.1 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Chlorophenyl phenyl ether | 20.4 UJ | 5.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Methylphenol | 40.8 UJ | 12.4 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Nitroaniline | 20.4 UJ | 2.6 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 4-Nitrophenol | 102 UJ | 8.2 | 102 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Acenaphthene | 20.4 UJ | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Acenaphthylene | 20.4 UJ | 6.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Anthracene | 20.4 UJ | 5.7 | 20.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzidine | 306 R | 40.8 | 306 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (a) pyrene | 20.4 UJ | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (b) fluoranthene | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (g,h,i) perylene | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo(a)anthracene | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo(k)fluoranthene | 20.4 UJ | 5.9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzoic acid | 122 UJ | 28.6 | 122 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bis (2-chloroethoxy) methane | 20.4 UJ | 7.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bis (2-chloroethyl) ether | 20.4 UJ | 6.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 20.4 UJ | 9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Butyl benzylphthalate | 40.8 UJ | 6.1 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chrysene | 20.4 UJ | 5.9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dibenzo (a,h) anthracene | 20.4 UJ | 2.4 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dibenzofuran | 20.4 UJ | 5.5 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Diethyl phthalate | 20.4 UJ | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dimethyl phthalate | 20.4 UJ | 6.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Di-n-butylphthalate | 40.8 UJ | 1.8 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Di-n-octylphthalate | 4.5 J | 2.2 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Fluoranthene | 40.8 UJ | 5.7 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Fluorene | 20.4 UJ | 5.9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Hexachlorobenzene | 20.4 UJ | 0.84 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Hexachlorobutadiene | 20.4 UJ | 5.1 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Hexachlorocyclopentadiene | 20.4 UJ | 1.7 | 20.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | Hexachloroethane | 20.4 UJ | 5.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 20.4 UJ | 3.3 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Naphthalene | 83.2 J | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Nitrobenzene | 40.8 UJ | 2 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | n-Nitrosodi-n-propylamine | 40.8 UJ | 6.1 | 40.8 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | n-Nitrosodiphenylamine | 20.4 UJ | 6.9 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Pentachlorophenol | 122 UJ | 2.8 | 122 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Phenanthrene | 20.4 UJ | 5.7 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Phenol | 20.4 UJ | 3.5 | 20.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Pyrene | 20.4 UJ | 2.4 | 20.4 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Dichlorobenzene | 52.6 U | 13.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1,2-Diphenylhydrazine | 20.9 J | 16.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4,5-Trichlorophenol | 105 U | 17.9 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4,6-Trichlorophenol | 105 U | 4.4 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4-Dichlorophenol | 52.6 U | 16.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4-Dimethylphenol | 230 | 12.1 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4-Dinitrophenol | 316 U | 29.5 | 316 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,4-Dinitrotoluene | 105 U | 14.7 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2,6-Dinitrotoluene | 105 U | 14.7 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Chloronaphthalene | 52.6 U | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Chlorophenol | 52.6 U | 15.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Methylnaphthalene | 64.1 | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Methylphenol | 211 | 13.7 | 52.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Nitroaniline | 263 U | 15.8 | 263 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Nitrophenol | 105 U | 4 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 3,3'-Dichlorobenzidine | 105 R | 14.2 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 3-Nitroaniline | 263 UJ | 14.7 | 263 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 316 U | 21 | 316 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Bromophenyl phenyl ether | 52.6 U | 12.1 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Chloro-3-methylphenol | 105 U | 14.2 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Chloroaniline | 105 UJ | 15.8 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Chlorophenyl phenyl ether | 52.6 U | 13.2 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Methylphenol | 105 U | 32.1 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Nitroaniline | 52.6 UJ | 6.8 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 4-Nitrophenol | 263 U | 21 | 263 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Acenaphthene | 52.6 U | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Acenaphthylene | 52.6 U | 15.8 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Anthracene | 52.6 U | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzidine | 789 R | 105 | 789 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (a) pyrene | 52.6 U | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (b) fluoranthene | 52.6 U | 13.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (g,h,i) perylene | 52.6 U | 13.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo(a)anthracene | 52.6 U | 13.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo(k)fluoranthene | 52.6 U | 15.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzoic acid | 316 U | 73.7 | 316 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bis (2-chloroethoxy) methane | 52.6 U | 18.4 | 52.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | Bis (2-chloroethyl) ether | 52.6 U | 15.8 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 52.6 U | 23.2 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Butyl benzylphthalate | 105 U | 15.8 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chrysene | 52.6 U | 15.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dibenzo (a,h) anthracene | 52.6 U | 6.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dibenzofuran | 52.6 U | 14.2 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Diethyl phthalate | 52.6 U | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dimethyl phthalate | 52.6 U | 15.8 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Di-n-butylphthalate | 105 U | 4.5 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Di-n-octylphthalate | 105 U | 5.8 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Fluoranthene | 105 U | 14.7 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Fluorene | 52.6 U | 15.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Hexachlorobenzene | 52.6 U | 2.2 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Hexachlorobutadiene | 52.6 U | 13.2 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Hexachlorocyclopentadiene | 52.6 U | 4.3 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Hexachloroethane | 52.6 U | 13.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 52.6 U | 8.4 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Naphthalene | 117 | 14.7 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Nitrobenzene | 105 U | 5.3 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | n-Nitrosodi-n-propylamine | 105 U | 15.8 | 105 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | n-Nitrosodiphenylamine | 52.6 U | 17.9 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Pentachlorophenol | 316 U | 7.4 | 316 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Phenanthrene | 52.6 U | 14.7 | 52.6 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | Phenol | 52.6 UJ | 8.9 | 52.6 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Pyrene | 52.6 U | 6.3 | 52.6 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Dichlorobenzene | 102 U | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1,2-Diphenylhydrazine | 102 U | 31.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4,5-Trichlorophenol | 204 U | 34.7 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4,6-Trichlorophenol | 204 U | 8.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4-Dichlorophenol | 102 U | 31.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4-Dimethylphenol | 102 U | 23.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4-Dinitrophenol | 612 U | 57.1 | 612 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,4-Dinitrotoluene | 204 U | 28.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2,6-Dinitrotoluene | 204 U | 28.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Chloronaphthalene | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Chlorophenol | 102 U | 29.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Methylnaphthalene | 55.1 J | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Methylphenol | 57.4 J | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Nitroaniline | 510 U | 30.6 | 510 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Nitrophenol | 204 U | 7.8 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 3,3'-Dichlorobenzidine | 204 U | 27.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 3-Nitroaniline | 510 U | 28.6 | 510 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4,6-Dinitro-2-methylphenol | 612 U | 40.8 | 612 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Bromophenyl phenyl ether | 102 U | 23.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Chloro-3-methylphenol | 204 U | 27.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Chloroaniline | 204 U | 30.6 | 204 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Chlorophenyl phenyl ether | 102 U | 25.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Methylphenol | 204 U | 62.2 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Nitroaniline | 102 U | 13.3 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 4-Nitrophenol | 510 UJ | 40.8 | 510 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Acenaphthene | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Acenaphthylene | 102 U | 30.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Anthracene | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzidine | 1530 U | 204 | 1530 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (a) pyrene | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (b) fluoranthene | 102 U | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (g,h,i) perylene | 102 U | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo(a)anthracene | 102 U | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo(k)fluoranthene | 102 U | 29.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzoic acid | 612 U | 143 | 612 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bis (2-chloroethoxy) methane | 102 U | 35.7 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bis (2-chloroethyl) ether | 102 U | 30.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Bis (2-ethylhexyl) phthalate | 102 U | 44.9 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Butyl benzylphthalate | 204 U | 30.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chrysene | 102 U | 29.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dibenzo (a,h) anthracene | 102 U | 12.2 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dibenzofuran | 102 U | 27.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Diethyl phthalate | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dimethyl phthalate | 102 U | 30.6 | 102 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-P-1069-16062010 | WATER | N | Di-n-butylphthalate | 204 U | 8.8 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Di-n-octylphthalate | 204 U | 11.2 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Fluoranthene | 204 U | 28.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Fluorene | 102 U | 29.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Hexachlorobenzene | 102 U | 4.2 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Hexachlorobutadiene | 102 U | 25.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Hexachlorocyclopentadiene | 102 U | 8.4 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Hexachloroethane | 102 U | 26.5 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 102 U | 16.3 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Naphthalene | 103 | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Nitrobenzene | 204 U | 10.2 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | n-Nitrosodi-n-propylamine | 204 U | 30.6 | 204 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | n-Nitrosodiphenylamine | 102 U | 34.7 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Pentachlorophenol | 612 U | 14.3 | 612 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Phenanthrene | 102 U | 28.6 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Phenol | 102 UJ | 17.3 | 102 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Pyrene | 102 U | 12.2 | 102 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Dichlorobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,2-Diphenylhydrazine | 10.2 U | 3.2 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1,3-Dinitrobenzene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4,5-Trichlorophenol | 20.4 U | 3.5 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4,6-Trichlorophenol | 20.4 U | 0.86 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4-Dichlorophenol | 10.2 U | 3.2 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8270C | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4-Dimethylphenol | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4-Dinitrophenol | 61.2 U | 5.7 | 61.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,4-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2,6-Dinitrotoluene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Chloronaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Chlorophenol | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Methylnaphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Methylphenol | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Nitroaniline | 51 U | 3.1 | 51 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Nitrophenol | 20.4 U | 0.78 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 3,3'-Dichlorobenzidine | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 3-Nitroaniline | 51 U | 2.8 | 51 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4,6-Dinitro-2-methylphenol | 61.2 U | 4.1 | 61.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Bromophenyl phenyl ether | 10.2 U | 2.3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Chloro-3-methylphenol | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Chloroaniline | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Chlorophenyl phenyl ether | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Methylphenol | 20.4 U | 6.2 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Nitroaniline | 10.2 U | 1.3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 4-Nitrophenol | 51 U | 4.1 | 51 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Acenaphthene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Acenaphthylene | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Anthracene | 10.2 U | 2.8 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | Benzidine | 153 U | 20.4 | 153 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (a) pyrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (b) fluoranthene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (g,h,i) perylene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo(a)anthracene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo(k)fluoranthene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzoic acid | 61.2 UJ | 14.3 | 61.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bis (2-chloroethoxy) methane | 10.2 U | 3.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bis (2-chloroethyl) ether | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Bis (2-ethylhexyl) phthalate | 10.2 U | 4.5 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Butyl benzylphthalate | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chrysene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dibenzo (a,h) anthracene | 10.2 U | 1.2 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dibenzofuran | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Diethyl phthalate | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dimethyl phthalate | 10.2 U | 3.1 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Di-n-butylphthalate | 20.4 U | 0.88 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Di-n-octylphthalate | 20.4 U | 1.1 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Fluoranthene | 20.4 U | 2.8 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Fluorene | 10.2 U | 3 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Hexachlorobenzene | 10.2 U | 0.42 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Hexachlorobutadiene | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Hexachlorocyclopentadiene | 10.2 U | 0.84 | 10.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | Hexachloroethane | 10.2 U | 2.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 10.2 U | 1.6 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Naphthalene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Nitrobenzene | 20.4 U | 1 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | n-Nitrosodi-n-propylamine | 20.4 U | 3.1 | 20.4 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | n-Nitrosodiphenylamine | 10.2 U | 3.5 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Pentachlorophenol | 61.2 U | 1.4 | 61.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Phenanthrene | 10.2 U | 2.8 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Phenol | 10.2 UJ | 1.7 | 10.2 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Pyrene | 10.2 U | 1.2 | 10.2 | UG/L |
| **SW8310** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | 1-Methylnaphthalene | 0.054 J | 0.033 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Acenaphthene | 1 U | 0.033 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Anthracene | 0.3 U | 0.012 | 0.3 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (a) pyrene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (b) fluoranthene | 0.2 U | 0.032 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo (g,h,i) perylene | 0.2 U | 0.029 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo(a)anthracene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Benzo(k)fluoranthene | 0.15 U | 0.075 | 0.15 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Chrysene | 0.2 U | 0.088 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Dibenzo (a,h) anthracene | 0.3 U | 0.036 | 0.3 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Fluoranthene | 0.04 J | 0.035 | 0.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-FD-10624-27042010 | WATER | FD | Fluorene | 0.3 U | 0.019 | 0.3 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Naphthalene | 1.3 | 0.042 | 1 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Phenanthrene | 0.3 U | 0.039 | 0.3 | UG/L |
| | ST106-FD-10624-27042010 | WATER | FD | Pyrene | 0.2 U | 0.038 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Benzo(k)fluoranthene | 0.15 UJ | 0.076 | 0.15 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Dibenzo (a,h) anthracene | 0.078 J | 0.037 | 0.31 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 0.036 J | 0.02 | 0.2 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-FD-1067-30042010 | WATER | FD | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1-Methylnaphthalene | 201 | 0.73 | 22.2 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2-Methylnaphthalene | 252 | 1.5 | 22.2 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Acenaphthene | 1.1 U | 0.037 | 1.1 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Acenaphthylene | 1.1 U | 0.031 | 1.1 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (a) pyrene | 0.22 U | 0.037 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (b) fluoranthene | 0.22 UJ | 0.036 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo (g,h,i) perylene | 0.22 U | 0.032 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo(a)anthracene | 0.22 UJ | 0.033 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Benzo(k)fluoranthene | 0.16 UJ | 0.082 | 0.16 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Chrysene | 0.2 J | 0.097 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Dibenzo (a,h) anthracene | 0.33 UJ | 0.04 | 0.33 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Fluoranthene | 0.44 U | 0.039 | 0.44 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Fluorene | 0.33 U | 0.021 | 0.33 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Naphthalene | 292 J | 0.93 | 22.2 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Phenanthrene | 0.33 U | 0.043 | 0.33 | UG/L |
| | ST106-FD-P-10614-21062010 | WATER | FD | Pyrene | 0.22 U | 0.042 | 0.22 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo (g,h,i) perylene | 0.098 J | 0.03 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Dibenzo (a,h) anthracene | 0.36 | 0.037 | 0.31 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10611-28042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10612-29042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10612-29042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Anthracene | 0.3 U | 0.012 | 0.3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.032 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.029 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.075 | 0.15 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Chrysene | 0.2 U | 0.088 | 0.2 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Dibenzo (a,h) anthracene | 0.3 UJ | 0.036 | 0.3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Fluorene | 0.3 U | 0.019 | 0.3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.035 J | 0.02 | 0.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-1061-30042010 | WATER | N | Naphthalene | 0.083 J | 0.043 | 1 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Phenanthrene | 0.3 U | 0.04 | 0.3 | UG/L |
| | ST106-GW-1061-30042010 | WATER | N | Pyrene | 0.2 U | 0.038 | 0.2 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10613-22042010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-10615-28042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10615-28042010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 1-Methylnaphthalene | 0.95 U | 0.031 | 0.95 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | 2-Methylnaphthalene | 0.95 U | 0.065 | 0.95 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Acenaphthene | 0.95 U | 0.031 | 0.95 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Acenaphthylene | 0.95 U | 0.027 | 0.95 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Anthracene | 0.28 U | 0.011 | 0.28 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (a) pyrene | 0.19 U | 0.031 | 0.19 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (b) fluoranthene | 0.19 U | 0.03 | 0.19 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10616-03052010 | WATER | N | Benzo (g,h,i) perylene | 0.19 U | 0.028 | 0.19 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo(a)anthracene | 0.19 U | 0.028 | 0.19 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Benzo(k)fluoranthene | 0.14 UJ | 0.07 | 0.14 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Chrysene | 0.19 U | 0.083 | 0.19 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Dibenzo (a,h) anthracene | 0.28 U | 0.034 | 0.28 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Fluoranthene | 0.38 U | 0.033 | 0.38 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Fluorene | 0.28 U | 0.018 | 0.28 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.19 U | 0.019 | 0.19 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Naphthalene | 0.95 U | 0.04 | 0.95 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Phenanthrene | 0.28 U | 0.037 | 0.28 | UG/L |
| | ST106-GW-10616-03052010 | WATER | N | Pyrene | 0.19 U | 0.036 | 0.19 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 1-Methylnaphthalene | 0.24 J | 0.036 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | 2-Methylnaphthalene | 0.2 J | 0.075 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Acenaphthene | 1.1 U | 0.036 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Acenaphthylene | 1.1 U | 0.031 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.036 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (b) fluoranthene | 0.22 U | 0.035 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 J | 0.032 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo(a)anthracene | 0.22 U | 0.033 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Benzo(k)fluoranthene | 0.37 | 0.081 | 0.16 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Chrysene | 0.22 U | 0.096 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Dibenzo (a,h) anthracene | 1 | 0.04 | 0.33 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10617-19042010 | WATER | N | Fluoranthene | 0.44 U | 0.038 | 0.44 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Fluorene | 0.025 J | 0.021 | 0.33 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Naphthalene | 0.22 J | 0.046 | 1.1 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Phenanthrene | 0.33 U | 0.043 | 0.33 | UG/L |
| | ST106-GW-10617-19042010 | WATER | N | Pyrene | 0.22 U | 0.042 | 0.22 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 1-Methylnaphthalene | 19.2 J | 0.034 | 1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | 2-Methylnaphthalene | 23.4 | 0.07 | 1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.077 | 0.15 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Fluorene | 3.5 | 0.02 | 0.31 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Naphthalene | 34.5 | 0.087 | 2.1 | UG/L |
| | ST106-GW-10618-20042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10618-20042010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 1-Methylnaphthalene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | 2-Methylnaphthalene | 1.1 U | 0.073 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Acenaphthene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Acenaphthylene | 1.1 U | 0.03 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Anthracene | 0.32 U | 0.013 | 0.32 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.035 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.032 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Benzo(k)fluoranthene | 0.16 U | 0.079 | 0.16 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Chrysene | 0.21 U | 0.093 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Dibenzo (a,h) anthracene | 0.32 U | 0.038 | 0.32 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Fluoranthene | 0.43 U | 0.037 | 0.43 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Fluorene | 0.32 U | 0.02 | 0.32 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Naphthalene | 1.1 U | 0.045 | 1.1 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Phenanthrene | 0.32 U | 0.042 | 0.32 | UG/L |
| | ST106-GW-10619-20042010 | WATER | N | Pyrene | 0.21 U | 0.041 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.071 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10620-21042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.077 | 0.15 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Chrysene | 0.21 U | 0.091 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.038 | 0.31 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Fluoranthene | 0.42 U | 0.036 | 0.42 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Phenanthrene | 0.31 U | 0.041 | 0.31 | UG/L |
| | ST106-GW-10620-21042010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 1-Methylnaphthalene | 0.068 J | 0.034 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10621-22042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.077 | 0.15 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Naphthalene | 0.3 J | 0.044 | 1 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10621-22042010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-10622-26042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10622-26042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.076 | 0.15 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 UJ | 0.037 | 0.31 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.038 J | 0.02 | 0.2 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-1062-30042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-10623-26042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Naphthalene | 0.3 J | 0.043 | 1 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-10623-26042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 1-Methylnaphthalene | 0.066 J | 0.033 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.068 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Acenaphthene | 1 U | 0.033 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Anthracene | 0.013 J | 0.012 | 0.3 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.033 | 0.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.032 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.029 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.074 | 0.15 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Chrysene | 0.2 U | 0.087 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Dibenzo (a,h) anthracene | 0.3 U | 0.036 | 0.3 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Fluoranthene | 0.048 J | 0.035 | 0.4 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Fluorene | 0.3 U | 0.019 | 0.3 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Naphthalene | 1.6 | 0.042 | 1 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Phenanthrene | 0.3 U | 0.039 | 0.3 | UG/L |
| | ST106-GW-10624-27042010 | WATER | N | Pyrene | 0.2 U | 0.038 | 0.2 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.071 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Anthracene | 0.33 | 0.012 | 0.31 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.077 | 0.15 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Chrysene | 0.21 U | 0.091 | 0.21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-10625-16042010 | WATER | N | Dibenzo (a,h) anthracene | 0.33 J | 0.038 | 0.31 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Fluoranthene | 0.12 J | 0.036 | 0.42 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Fluorene | 0.24 J | 0.02 | 0.31 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Phenanthrene | 0.046 J | 0.041 | 0.31 | UG/L |
| | ST106-GW-10625-16042010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 1-Methylnaphthalene | 0.11 J | 0.034 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | 2-Methylnaphthalene | 0.11 J | 0.071 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Acenaphthylene | 0.03 J | 0.029 | 1 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Anthracene | 0.087 J | 0.012 | 0.31 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.077 | 0.15 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Chrysene | 0.21 U | 0.091 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.038 | 0.31 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Fluoranthene | 0.1 J | 0.036 | 0.42 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-10626-27042010 | WATER | N | Phenanthrene | 0.054 J | 0.041 | 0.31 | UG/L |
| | ST106-GW-10626-27042010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Anthracene | 0.062 J | 0.012 | 0.31 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.077 | 0.15 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Fluoranthene | 0.039 J | 0.036 | 0.41 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Phenanthrene | 0.05 J | 0.04 | 0.31 | UG/L |
| | ST106-GW-10627-05052010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.071 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-1063-03052010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.077 | 0.15 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Chrysene | 0.21 U | 0.091 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.038 | 0.31 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Fluoranthene | 0.42 U | 0.037 | 0.42 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Phenanthrene | 0.31 U | 0.041 | 0.31 | UG/L |
| | ST106-GW-1063-03052010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.035 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Acenaphthene | 1 U | 0.035 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Anthracene | 0.32 U | 0.013 | 0.32 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.035 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-1064-05052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.032 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Benzo(k)fluoranthene | 0.16 U | 0.078 | 0.16 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Chrysene | 0.21 U | 0.092 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Dibenzo (a,h) anthracene | 0.32 U | 0.038 | 0.32 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Fluoranthene | 0.42 U | 0.037 | 0.42 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Fluorene | 0.32 U | 0.02 | 0.32 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Phenanthrene | 0.32 U | 0.041 | 0.32 | UG/L |
| | ST106-GW-1064-05052010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.076 | 0.15 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Chrysene | 0.2 U | 0.089 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 UJ | 0.037 | 0.31 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-1067-30042010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.032 J | 0.02 | 0.2 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-1067-30042010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.033 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.069 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Acenaphthene | 1 U | 0.033 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Anthracene | 0.017 J | 0.012 | 0.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.032 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo (g,h,i) perylene | 0.2 U | 0.029 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.03 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.075 | 0.15 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Chrysene | 0.2 U | 0.088 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Dibenzo (a,h) anthracene | 0.3 U | 0.036 | 0.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Fluoranthene | 0.4 U | 0.035 | 0.4 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Fluorene | 0.3 U | 0.019 | 0.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Naphthalene | 1 U | 0.042 | 1 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Phenanthrene | 0.3 U | 0.039 | 0.3 | UG/L |
| | ST106-GW-2819RC-05052010 | WATER | N | Pyrene | 0.2 U | 0.038 | 0.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-3411-03052010 | WATER | N | 1-Methylnaphthalene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | 2-Methylnaphthalene | 1.1 U | 0.072 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Acenaphthene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Acenaphthylene | 1.1 U | 0.03 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Anthracene | 0.32 U | 0.013 | 0.32 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.035 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.032 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.079 | 0.16 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Chrysene | 0.21 U | 0.092 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Dibenzo (a,h) anthracene | 0.32 U | 0.038 | 0.32 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Fluoranthene | 0.42 U | 0.037 | 0.42 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Fluorene | 0.32 U | 0.02 | 0.32 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Naphthalene | 1.1 U | 0.045 | 1.1 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Phenanthrene | 0.32 U | 0.041 | 0.32 | UG/L |
| | ST106-GW-3411-03052010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.035 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.072 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Acenaphthene | 1 U | 0.035 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Anthracene | 0.016 J | 0.013 | 0.32 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.035 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.032 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Benzo(k)fluoranthene | 0.16 U | 0.078 | 0.16 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Chrysene | 0.21 U | 0.092 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Dibenzo (a,h) anthracene | 0.32 U | 0.038 | 0.32 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Fluoranthene | 0.42 U | 0.037 | 0.42 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Fluorene | 0.32 U | 0.02 | 0.32 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Naphthalene | 1 U | 0.044 | 1 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Phenanthrene | 0.32 U | 0.041 | 0.32 | UG/L |
| | ST106-GW-KAFB03-06052010 | WATER | N | Pyrene | 0.21 U | 0.04 | 0.21 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1-Methylnaphthalene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | 2-Methylnaphthalene | 1.1 U | 0.073 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Acenaphthene | 1.1 U | 0.035 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Acenaphthylene | 1.1 U | 0.03 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Anthracene | 0.014 J | 0.013 | 0.32 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.035 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (b) fluoranthene | 0.22 U | 0.034 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo (g,h,i) perylene | 0.22 U | 0.031 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo(a)anthracene | 0.22 U | 0.032 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Benzo(k)fluoranthene | 0.16 U | 0.08 | 0.16 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-KAFB16-06052010 | WATER | N | Chrysene | 0.22 U | 0.094 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Dibenzo (a,h) anthracene | 0.32 U | 0.039 | 0.32 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Fluoranthene | 0.43 U | 0.038 | 0.43 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Fluorene | 0.32 U | 0.02 | 0.32 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Naphthalene | 1.1 U | 0.045 | 1.1 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Phenanthrene | 0.32 U | 0.042 | 0.32 | UG/L |
| | ST106-GW-KAFB16-06052010 | WATER | N | Pyrene | 0.22 U | 0.041 | 0.22 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 1-Methylnaphthalene | 299 | 0.67 | 20.4 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | 2-Methylnaphthalene | 385 | 1.4 | 20.4 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Acenaphthylene | 1 U | 0.028 | 1 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Anthracene | 0.31 U | 0.012 | 0.31 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (a) pyrene | 0.2 U | 0.034 | 0.2 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (b) fluoranthene | 0.2 U | 0.033 | 0.2 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo (g,h,i) perylene | 0.2 UJ | 0.03 | 0.2 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo(a)anthracene | 0.2 U | 0.031 | 0.2 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Benzo(k)fluoranthene | 0.15 UJ | 0.076 | 0.15 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Chrysene | 0.28 | 0.089 | 0.2 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 UJ | 0.037 | 0.31 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Fluorene | 0.31 U | 0.019 | 0.31 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.2 U | 0.02 | 0.2 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-P-10610-14062010 | WATER | N | Naphthalene | 297 | 0.86 | 20.4 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-P-10610-14062010 | WATER | N | Pyrene | 0.2 U | 0.039 | 0.2 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 1-Methylnaphthalene | 198 | 0.73 | 22.2 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | 2-Methylnaphthalene | 243 | 1.5 | 22.2 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Acenaphthene | 1.1 U | 0.037 | 1.1 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Acenaphthylene | 1.1 U | 0.031 | 1.1 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.037 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (b) fluoranthene | 0.22 UJ | 0.036 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo (g,h,i) perylene | 0.22 U | 0.032 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo(a)anthracene | 0.22 UJ | 0.033 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.082 | 0.16 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Chrysene | 0.22 U | 0.097 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Dibenzo (a,h) anthracene | 0.33 UJ | 0.04 | 0.33 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Fluoranthene | 0.44 U | 0.039 | 0.44 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Fluorene | 0.33 U | 0.021 | 0.33 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Naphthalene | 289 J | 0.93 | 22.2 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Phenanthrene | 0.33 U | 0.043 | 0.33 | UG/L |
| | ST106-GW-P-10614-21062010 | WATER | N | Pyrene | 0.22 U | 0.042 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 1-Methylnaphthalene | 122 | 0.67 | 20.4 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | 2-Methylnaphthalene | 146 | 1.4 | 20.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-P-10628-14062010 | WATER | N | Acenaphthene | 1.1 U | 0.036 | 1.1 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Acenaphthylene | 1.1 U | 0.03 | 1.1 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.036 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (b) fluoranthene | 0.22 U | 0.035 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo (g,h,i) perylene | 0.22 UJ | 0.032 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo(a)anthracene | 0.22 U | 0.033 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.08 | 0.16 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Chrysene | 0.22 U | 0.094 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Dibenzo (a,h) anthracene | 0.33 UJ | 0.039 | 0.33 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Fluoranthene | 0.43 U | 0.038 | 0.43 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Fluorene | 0.33 U | 0.021 | 0.33 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Naphthalene | 174 | 0.86 | 20.4 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Phenanthrene | 0.33 U | 0.042 | 0.33 | UG/L |
| | ST106-GW-P-10628-14062010 | WATER | N | Pyrene | 0.22 U | 0.041 | 0.22 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 1-Methylnaphthalene | 29000 | 55.6 | 1680 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | 2-Methylnaphthalene | 31700 | 115 | 1680 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Acenaphthene | 16.8 U | 0.56 | 16.8 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Acenaphthylene | 16.8 U | 0.47 | 16.8 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Anthracene | 5 U | 0.2 | 5 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (a) pyrene | 3.4 U | 0.56 | 3.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (b) fluoranthene | 3.4 UJ | 0.54 | 3.4 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo (g,h,i) perylene | 3.4 U | 0.49 | 3.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo(a)anthracene | 3.4 UJ | 0.5 | 3.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Benzo(k)fluoranthene | 2.5 UJ | 1.2 | 2.5 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Chrysene | 35 | 1.5 | 3.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Dibenzo (a,h) anthracene | 5 UJ | 0.61 | 5 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Fluoranthene | 6.7 U | 0.59 | 6.7 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Fluorene | 5 U | 0.32 | 5 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 3.4 U | 0.34 | 3.4 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Naphthalene | 9640 J | 17.7 | 421 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Phenanthrene | 5 U | 0.66 | 5 | UG/L |
| | ST106-GW-P-1065-16062010 | WATER | N | Pyrene | 3.4 U | 0.64 | 3.4 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 1-Methylnaphthalene | 71.4 | 0.37 | 11.1 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | 2-Methylnaphthalene | 78 | 0.76 | 11.1 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Acenaphthene | 1.1 U | 0.037 | 1.1 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Acenaphthylene | 1.1 U | 0.031 | 1.1 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.037 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (b) fluoranthene | 0.22 UJ | 0.036 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo (g,h,i) perylene | 0.22 U | 0.032 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo(a)anthracene | 0.22 UJ | 0.033 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.082 | 0.16 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Chrysene | 0.22 U | 0.097 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Dibenzo (a,h) anthracene | 0.33 UJ | 0.04 | 0.33 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-P-1066-21062010 | WATER | N | Fluoranthene | 0.44 U | 0.039 | 0.44 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Fluorene | 0.33 U | 0.021 | 0.33 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Naphthalene | 142 J | 0.47 | 11.1 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Phenanthrene | 0.33 U | 0.043 | 0.33 | UG/L |
| | ST106-GW-P-1066-21062010 | WATER | N | Pyrene | 0.22 U | 0.042 | 0.22 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 1-Methylnaphthalene | 84.4 | 0.35 | 10.7 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | 2-Methylnaphthalene | 116 | 0.73 | 10.7 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Acenaphthene | 1.1 UJ | 0.035 | 1.1 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Acenaphthylene | 1.1 UJ | 0.03 | 1.1 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Anthracene | 0.32 UJ | 0.013 | 0.32 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (a) pyrene | 0.21 UJ | 0.035 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (b) fluoranthene | 0.055 J | 0.034 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo (g,h,i) perylene | 0.21 UJ | 0.031 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo(a)anthracene | 0.21 UJ | 0.032 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.079 | 0.16 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Chrysene | 0.21 UJ | 0.093 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Dibenzo (a,h) anthracene | 0.094 J | 0.038 | 0.32 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Fluoranthene | 0.43 UJ | 0.037 | 0.43 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Fluorene | 0.32 UJ | 0.02 | 0.32 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 UJ | 0.021 | 0.21 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Naphthalene | 151 J | 0.45 | 10.7 | UG/L |
| | ST106-GW-P-1068-21062010 | WATER | N | Phenanthrene | 0.32 UJ | 0.042 | 0.32 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| SW8310 | | | | | | | | |
| | ST106-GW-P-1068-21062010 | WATER | N | Pyrene | 0.21 UJ | 0.041 | 0.21 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 1-Methylnaphthalene | 87.1 | 0.36 | 10.9 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | 2-Methylnaphthalene | 121 | 0.74 | 10.9 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Acenaphthene | 1.1 U | 0.036 | 1.1 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Acenaphthylene | 1.1 U | 0.03 | 1.1 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Anthracene | 0.33 U | 0.013 | 0.33 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (a) pyrene | 0.22 U | 0.036 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (b) fluoranthene | 0.22 UJ | 0.035 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo (g,h,i) perylene | 0.22 U | 0.032 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo(a)anthracene | 0.22 UJ | 0.033 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Benzo(k)fluoranthene | 0.16 UJ | 0.08 | 0.16 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Chrysene | 0.22 U | 0.094 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Dibenzo (a,h) anthracene | 0.33 UJ | 0.039 | 0.33 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Fluoranthene | 0.43 U | 0.038 | 0.43 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Fluorene | 0.33 U | 0.021 | 0.33 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.22 U | 0.022 | 0.22 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Naphthalene | 170 J | 0.46 | 10.9 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Phenanthrene | 0.33 U | 0.042 | 0.33 | UG/L |
| | ST106-GW-P-1069-16062010 | WATER | N | Pyrene | 0.22 U | 0.041 | 0.22 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 1-Methylnaphthalene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | 2-Methylnaphthalene | 1 U | 0.07 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Acenaphthene | 1 U | 0.034 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Acenaphthylene | 1 U | 0.029 | 1 | UG/L |

## Table B-4. Summary of Groundwater Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | |
| | ST106-GW-VA2-06052010 | WATER | N | Anthracene | 0.014 J | 0.012 | 0.31 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (a) pyrene | 0.21 U | 0.034 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (b) fluoranthene | 0.21 U | 0.033 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo (g,h,i) perylene | 0.21 U | 0.03 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo(a)anthracene | 0.21 U | 0.031 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Benzo(k)fluoranthene | 0.15 U | 0.076 | 0.15 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Chrysene | 0.21 U | 0.09 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Dibenzo (a,h) anthracene | 0.31 U | 0.037 | 0.31 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Fluoranthene | 0.41 U | 0.036 | 0.41 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Fluorene | 0.31 U | 0.02 | 0.31 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Indeno(1,2,3-cd)pyrene | 0.21 U | 0.021 | 0.21 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Naphthalene | 1 U | 0.043 | 1 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Phenanthrene | 0.31 U | 0.04 | 0.31 | UG/L |
| | ST106-GW-VA2-06052010 | WATER | N | Pyrene | 0.21 U | 0.039 | 0.21 | UG/L |

**QA/QC Type**

N = Normal Environmental Sample
FD = Field Duplicate

* The most severe flag for each analyte becomes the final validation flag

**Qualifier Description:**

J = The analyte was positively identified, the quantitation is an estimate.
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL).
UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL) and the the quantitation is an estimate.

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **E300** | ST106-FD-10624-27042010 | WATER | FD | 1 Days - A | 4/27/2010 | | 4/28/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 2 Days - A | 4/30/2010 | | 5/2/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1 Days - A | 6/21/2010 | | 6/22/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 1 Days - A | 4/28/2010 | | 4/29/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 1 Days - A | 4/29/2010 | | 4/30/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 5 Days - A | 4/29/2010 | | 5/4/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 2 Days - A | 4/30/2010 | | 5/2/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 1 Days - A | 4/22/2010 | | 4/23/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 1 Days - A | 4/28/2010 | | 4/29/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 1 Days - A | 5/3/2010 | | 5/4/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 1 Days - A | 4/19/2010 | | 4/20/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 1 Days - A | 4/20/2010 | | 4/21/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 1 Days - A | 4/20/2010 | | 4/21/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 1 Days - A | 4/21/2010 | | 4/22/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 1 Days - A | 4/22/2010 | | 4/23/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 1 Days - A | 4/26/2010 | | 4/27/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 2 Days - A | 4/30/2010 | | 5/2/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 1 Days - A | 4/26/2010 | | 4/27/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 1 Days - A | 4/27/2010 | | 4/28/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 1 Days - A | 4/16/2010 | | 4/17/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 1 Days - A | 4/27/2010 | | 4/28/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 1 Days - A | 5/5/2010 | | 5/6/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 2 Days - A | 5/3/2010 | | 5/5/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 1 Days - A | 5/3/2010 | | 5/4/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 1 Days - A | 5/5/2010 | | 5/6/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 2 Days - A | 4/30/2010 | | 5/2/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 1 Days - A | 5/6/2010 | | 5/7/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 1 Days - A | 5/5/2010 | | 5/6/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 1 Days - A | 5/3/2010 | | 5/4/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 1 Days - A | 5/6/2010 | | 5/7/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 1 Days - A | 5/6/2010 | | 5/7/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 1 Days - A | 6/14/2010 | | 6/15/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 1 Days - A | 6/21/2010 | | 6/22/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 1 Days - A | 6/14/2010 | | 6/15/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 5 Days - A | 6/16/2010 | | 6/21/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 2 Days - A | 6/16/2010 | | 6/18/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 1 Days - A | 6/21/2010 | | 6/22/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 1 Days - A | 6/21/2010 | | 6/22/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 2 Days - A | 6/16/2010 | | 6/18/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **E300** | ST106-GW-VA2-06052010 | WATER | N | 1 Days - A | 5/6/2010 | | 5/7/2010 |
| **E310.1** | ST106-FD-10624-27042010 | WATER | FD | 3 Days - A | 4/27/2010 | | 4/30/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 3 Days - A | 4/30/2010 | | 5/3/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 3 Days - A | 6/21/2010 | | 6/24/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 2 Days - A | 4/28/2010 | | 4/30/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 4 Days - A | 4/29/2010 | | 5/3/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 3 Days - A | 4/30/2010 | | 5/3/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 5 Days - A | 4/22/2010 | | 4/27/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 2 Days - A | 4/28/2010 | | 4/30/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 12 Days - A | 5/3/2010 | | 5/15/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 4 Days - A | 4/19/2010 | | 4/23/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 3 Days - A | 4/20/2010 | | 4/23/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 3 Days - A | 4/20/2010 | | 4/23/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 2 Days - A | 4/21/2010 | | 4/23/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 5 Days - A | 4/22/2010 | | 4/27/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 1 Days - A | 4/26/2010 | | 4/27/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 3 Days - A | 4/30/2010 | | 5/3/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 1 Days - A | 4/26/2010 | | 4/27/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 3 Days - A | 4/27/2010 | | 4/30/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 7 Days - A | 4/16/2010 | | 4/23/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 3 Days - A | 4/27/2010 | | 4/30/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 10 Days - A | 5/5/2010 | | 5/15/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 12 Days - A | 5/3/2010 | | 5/15/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 10 Days - A | 5/5/2010 | | 5/15/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 3 Days - A | 4/30/2010 | | 5/3/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 9 Days - A | 5/6/2010 | | 5/15/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 10 Days - A | 5/5/2010 | | 5/15/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 12 Days - A | 5/3/2010 | | 5/15/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 9 Days - A | 5/6/2010 | | 5/15/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 9 Days - A | 5/6/2010 | | 5/15/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 3 Days - A | 6/14/2010 | | 6/17/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 3 Days - A | 6/21/2010 | | 6/24/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 3 Days - A | 6/14/2010 | | 6/17/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 3 Days - A | 6/16/2010 | | 6/19/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 3 Days - A | 6/21/2010 | | 6/24/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 3 Days - A | 6/21/2010 | | 6/24/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 3 Days - A | 6/16/2010 | | 6/19/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 9 Days - A | 5/6/2010 | | 5/15/2010 |
| **SW6010B** | ST106-FD-10624-27042010 | WATER | FD | 6 Days - A | 4/27/2010 | 4/30/2010 | 5/3/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW6010B** | ST106-FD-1067-30042010 | WATER | FD | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 1 Days - E | 6/21/2010 | 6/22/2010 | 6/25/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 5 Days - A | 4/28/2010 | 4/30/2010 | 5/3/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 5 Days - A | 4/29/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 4 Days - A | 4/30/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 5 Days - A | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 5 Days - A | 4/28/2010 | 4/30/2010 | 5/3/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/6/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 3 Days - A | 4/19/2010 | 4/21/2010 | 4/22/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 78 Days - A | 4/20/2010 | 4/22/2010 | 7/7/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 6 Days - A | 4/20/2010 | 4/22/2010 | 4/26/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 6 Days - A | 4/20/2010 | 4/22/2010 | 4/26/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 78 Days - A | 4/20/2010 | 4/22/2010 | 7/7/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 6 Days - A | 4/21/2010 | 4/23/2010 | 4/27/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 79 Days - A | 4/21/2010 | 7/8/2010 | 7/9/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 5 Days - A | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 78 Days - A | 4/26/2010 | 4/28/2010 | 7/13/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 4 Days - A | 4/30/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 78 Days - A | 4/26/2010 | 4/28/2010 | 7/13/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 6 Days - A | 4/27/2010 | 4/30/2010 | 5/3/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 4 Days - A | 4/16/2010 | 4/19/2010 | 4/20/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 6 Days - A | 4/27/2010 | 4/30/2010 | 5/3/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 1 Days - E | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/6/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 1 Days - E | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 1 Days - E | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/6/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/21/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 1 Days - E | 6/21/2010 | 6/22/2010 | 6/25/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/21/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 2 Days - E | 6/16/2010 | 6/18/2010 | 6/21/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 1 Days - E | 6/21/2010 | 6/22/2010 | 6/25/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 1 Days - E | 6/21/2010 | 6/22/2010 | 6/25/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW6010B** | ST106-GW-P-1069-16062010 | WATER | N | 2 Days - E | 6/16/2010 | 6/18/2010 | 6/21/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |
| **SW8011** | ST106-FD-10613-LF501-2Q10 | WATER | FD | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-FD-10624-27042010 | WATER | FD | 7 Days - A | 4/27/2010 | 4/30/2010 | 5/4/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 7 Days - A | 4/30/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 8 Days - A | 6/21/2010 | 6/22/2010 | 6/29/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 6 Days - A | 4/28/2010 | 4/30/2010 | 5/4/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 8 Days - A | 4/29/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 7 Days - A | 4/30/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 6 Days - A | 4/28/2010 | 4/30/2010 | 5/4/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 4 Days - A | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 13 Days - A | 4/19/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 12 Days - A | 4/20/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 7 Days - A | 4/21/2010 | 4/28/2010 | 4/28/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8011** | ST106-GW-10621-22042010 | WATER | N | 8 Days - A | 4/22/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 7 Days - A | 4/22/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 6 Days - A | 4/26/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 6 Days - A | 4/26/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 6 Days - A | 4/26/2010 | 4/28/2010 | 5/2/2010 |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 5 Days - A | 4/26/2010 | 4/28/2010 | 5/1/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 7 Days - A | 4/30/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 4 Days - A | 4/26/2010 | 4/28/2010 | 4/30/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 5 Days - A | 4/27/2010 | 4/30/2010 | 5/2/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 8 Days - A | 4/16/2010 | 4/22/2010 | 4/24/2010 |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 10 Days - A | 4/13/2010 | 4/22/2010 | 4/23/2010 |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 10 Days - A | 4/13/2010 | 4/22/2010 | 4/23/2010 |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 10 Days - A | 4/13/2010 | 4/22/2010 | 4/23/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 5 Days - A | 4/27/2010 | 4/30/2010 | 5/2/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 2 Days - A | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 4 Days - A | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 2 Days - A | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 7 Days - A | 4/30/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 13 Days - A | 5/6/2010 | 5/13/2010 | 5/19/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 21 Days - A | 5/6/2010 | 5/26/2010 | 5/27/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 21 Days - A | 5/6/2010 | 5/26/2010 | 5/27/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 2 Days - A | 5/5/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 4 Days - A | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 13 Days - A | 5/6/2010 | 5/13/2010 | 5/19/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 14 Days - A | 5/6/2010 | 5/13/2010 | 5/20/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 14 Days - A | 6/14/2010 | 6/22/2010 | 6/28/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 8 Days - A | 6/21/2010 | 6/22/2010 | 6/29/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 14 Days - A | 6/14/2010 | 6/22/2010 | 6/28/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 12 Days - A | 6/16/2010 | 6/21/2010 | 6/28/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 8 Days - A | 6/21/2010 | 6/22/2010 | 6/29/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 8 Days - A | 6/21/2010 | 6/22/2010 | 6/29/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 12 Days - A | 6/16/2010 | 6/21/2010 | 6/28/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 14 Days - A | 5/6/2010 | 5/13/2010 | 5/20/2010 |
| **SW8015-E** | ST106-FD-10624-27042010 | WATER | FD | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8015-E** | ST106-FD-1067-30042010 | WATER | FD | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/3/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 4 Days - E | 4/29/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/28/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/3/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/6/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 3 Days - E | 4/19/2010 | 4/22/2010 | 4/23/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/27/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/24/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 5 Days - E | 4/21/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/28/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 4 Days - E | 4/16/2010 | 4/20/2010 | 4/21/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 2 Days - E | 5/5/2010 | 5/7/2010 | 5/10/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 2 Days - E | 5/5/2010 | 5/7/2010 | 5/10/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 2 Days - E | 5/5/2010 | 5/7/2010 | 5/10/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/6/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/13/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/13/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/17/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/16/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 5 Days - E | 6/16/2010 | 6/21/2010 | 6/22/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 5 Days - E | 6/16/2010 | 6/21/2010 | 6/22/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/13/2010 |
| **SW8015-P** | ST106-FD-10624-27042010 | WATER | FD | 10 Days - E | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 11 Days - E | 4/30/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 7 Days - E | 6/21/2010 | 6/28/2010 | 6/28/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 9 Days - E | 4/28/2010 | 5/7/2010 | 5/7/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8015-P** | ST106-GW-10612-29042010 | WATER | N | 11 Days - E | 4/29/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 11 Days - E | 4/30/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 12 Days - E | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 9 Days - E | 4/28/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 8 Days - E | 5/3/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 7 Days - E | 4/19/2010 | 4/26/2010 | 4/26/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 7 Days - E | 4/20/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 7 Days - E | 4/20/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 12 Days - E | 4/21/2010 | 5/3/2010 | 5/3/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 12 Days - E | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 8 Days - E | 4/26/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 11 Days - E | 4/30/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 8 Days - E | 4/26/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 10 Days - E | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 10 Days - E | 4/16/2010 | 4/26/2010 | 4/26/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 8 Days - E | 4/27/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 8 Days - E | 5/5/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 8 Days - E | 5/3/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 8 Days - E | 5/5/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 11 Days - E | 4/30/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 11 Days - E | 5/6/2010 | 5/17/2010 | 5/17/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 8 Days - E | 5/5/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 8 Days - E | 5/3/2010 | 5/11/2010 | 5/11/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 11 Days - E | 5/6/2010 | 5/17/2010 | 5/17/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 11 Days - E | 5/6/2010 | 5/17/2010 | 5/17/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 7 Days - E | 6/14/2010 | 6/21/2010 | 6/21/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/16/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 7 Days - E | 6/21/2010 | 6/28/2010 | 6/28/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 7 Days - E | 6/14/2010 | 6/21/2010 | 6/21/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 7 Days - E | 6/14/2010 | 6/21/2010 | 6/21/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/16/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 5 Days - E | 6/16/2010 | 6/21/2010 | 6/21/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 7 Days - E | 6/21/2010 | 6/28/2010 | 6/28/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 7 Days - E | 6/21/2010 | 6/28/2010 | 6/28/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 5 Days - E | 6/16/2010 | 6/21/2010 | 6/21/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 11 Days - E | 5/6/2010 | 5/17/2010 | 5/17/2010 |
| **SW8260B** | ST106-FD-10613-LF501-2Q10 | WATER | FD | 13 Days - A | 4/22/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-FD-10613-LF501-2Q10 | WATER | FD | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-FD-10613-LF506-2Q10 | WATER | FD | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8260B** | ST106-FD-10613-LF506-2Q10 | WATER | FD | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-FD-10613-LF514-2Q10 | WATER | FD | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-FD-10624-27042010 | WATER | FD | 10 Days - A | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 10 Days - A | 4/30/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 10 Days - A | 6/21/2010 | 7/1/2010 | 7/1/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 11 Days - A | 4/28/2010 | 5/9/2010 | 5/9/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 10 Days - A | 4/29/2010 | 5/9/2010 | 5/9/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 10 Days - A | 4/30/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-LF501-2Q10 | WATER | N | 13 Days - A | 4/22/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-LF506-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-LF514-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-PDB501-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-PDB506-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-PDB514-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 11 Days - A | 4/28/2010 | 5/9/2010 | 5/9/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 9 Days - A | 5/3/2010 | 5/12/2010 | 5/12/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-LF493-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-LF498-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-LF509-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-PDB493-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-PDB498-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10617-PDB509-2Q10 | WATER | N | 8 Days - A | 4/19/2010 | 4/27/2010 | 4/27/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB486-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB491-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10618-PDB503-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10619-PDB505-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10619-PDB510-2Q10 | WATER | N | 8 Days - A | 4/20/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10619-PDB518-2Q10 | WATER | N | 7 Days - A | 4/20/2010 | 4/27/2010 | 4/27/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8260B** | ST106-GW-10620-21042010 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10620-PDB491-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10620-PDB496-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10620-PDB507-2Q10 | WATER | N | 13 Days - A | 4/21/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10621-PDB467-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10621-PDB472-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10621-PDB482-2Q10 | WATER | N | 12 Days - A | 4/22/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 10 Days - A | 4/26/2010 | 5/6/2010 | 5/6/2010 |
| | ST106-GW-10622-PDB472-2Q10 | WATER | N | 10 Days - A | 4/26/2010 | 5/6/2010 | 5/6/2010 |
| | ST106-GW-10622-PDB477-2Q10 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10622-PDB486-2Q10 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 10 Days - A | 4/30/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10623-PDB481-2Q10 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10623-PDB486-2Q10 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10623-PDB497-2Q10 | WATER | N | 9 Days - A | 4/26/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 10 Days - A | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 10 Days - A | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 5 Days - A | 4/16/2010 | 4/21/2010 | 4/21/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 4 Days - A | 4/16/2010 | 4/20/2010 | 4/20/2010 |
| | ST106-GW-10625-PDB473-2Q2010 | WATER | N | 6 Days - A | 4/13/2010 | 4/19/2010 | 4/19/2010 |
| | ST106-GW-10625-PDB478-2Q2010 | WATER | N | 6 Days - A | 4/13/2010 | 4/19/2010 | 4/19/2010 |
| | ST106-GW-10625-PDB486-2Q2010 | WATER | N | 6 Days - A | 4/13/2010 | 4/19/2010 | 4/19/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 10 Days - A | 4/27/2010 | 5/7/2010 | 5/7/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 8 Days - A | 5/5/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 9 Days - A | 5/3/2010 | 5/12/2010 | 5/12/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 7 Days - A | 5/5/2010 | 5/12/2010 | 5/12/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 10 Days - A | 4/30/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 7 Days - A | 5/6/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-1069-06052010 | WATER | N | 7 Days - A | 5/6/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 7 Days - A | 5/5/2010 | 5/12/2010 | 5/12/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 9 Days - A | 5/3/2010 | 5/12/2010 | 5/12/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 7 Days - A | 5/6/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 7 Days - A | 5/6/2010 | 5/13/2010 | 5/13/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 5 Days - A | 6/14/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 5 Days - A | 6/14/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8260B** | ST106-GW-P-10628-14062010 | WATER | N | 5 Days - A | 6/14/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 5 Days - A | 6/14/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 3 Days - A | 6/16/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 3 Days - A | 6/16/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 9 Days - A | 6/21/2010 | 6/30/2010 | 6/30/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 3 Days - A | 6/16/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 3 Days - A | 6/16/2010 | 6/19/2010 | 6/19/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 7 Days - A | 5/6/2010 | 5/13/2010 | 5/13/2010 |
| **SW8270C** | ST106-FD-10624-27042010 | WATER | FD | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/5/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/28/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 4 Days - E | 4/29/2010 | 5/3/2010 | 5/5/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/5/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 3 Days - E | 4/19/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 5 Days - E | 4/21/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/5/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/28/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 3 Days - E | 4/16/2010 | 4/19/2010 | 4/20/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/11/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 3 Days - E | 4/30/2010 | 5/3/2010 | 5/5/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 2 Days - E | 5/3/2010 | 5/5/2010 | 5/5/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/12/2010 |
| | ST106-GW-KAFB16-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/12/2010 |

# Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8270C** | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/28/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/28/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/28/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 2 Days - E | 6/16/2010 | 6/18/2010 | 6/27/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/28/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/27/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/27/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/28/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 2 Days - E | 6/16/2010 | 6/18/2010 | 6/28/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 5 Days - E | 5/6/2010 | 5/11/2010 | 5/12/2010 |
| **SW8310** | ST106-FD-10624-27042010 | WATER | FD | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-FD-1067-30042010 | WATER | FD | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/24/2010 |
| | ST106-FD-P-10614-21062010 | WATER | FD | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-10611-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10612-29042010 | WATER | N | 4 Days - E | 4/29/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-1061-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10613-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10615-28042010 | WATER | N | 5 Days - E | 4/28/2010 | 5/3/2010 | 5/4/2010 |
| | ST106-GW-10616-03052010 | WATER | N | 3 Days - E | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-10617-19042010 | WATER | N | 3 Days - E | 4/19/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10618-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/23/2010 |
| | ST106-GW-10619-20042010 | WATER | N | 2 Days - E | 4/20/2010 | 4/22/2010 | 4/22/2010 |
| | ST106-GW-10620-21042010 | WATER | N | 5 Days - E | 4/21/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10621-22042010 | WATER | N | 4 Days - E | 4/22/2010 | 4/26/2010 | 4/27/2010 |
| | ST106-GW-10622-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-1062-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-10623-26042010 | WATER | N | 2 Days - E | 4/26/2010 | 4/28/2010 | 4/29/2010 |
| | ST106-GW-10624-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10625-16042010 | WATER | N | 3 Days - E | 4/16/2010 | 4/19/2010 | 4/19/2010 |
| | ST106-GW-10626-27042010 | WATER | N | 2 Days - E | 4/27/2010 | 4/29/2010 | 4/29/2010 |
| | ST106-GW-10627-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-1063-03052010 | WATER | N | 3 Days - E | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-1064-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-1067-30042010 | WATER | N | 4 Days - E | 4/30/2010 | 5/4/2010 | 5/4/2010 |
| | ST106-GW-2819RC-05052010 | WATER | N | 5 Days - E | 5/5/2010 | 5/10/2010 | 5/10/2010 |
| | ST106-GW-3411-03052010 | WATER | N | 3 Days - E | 5/3/2010 | 5/6/2010 | 5/7/2010 |
| | ST106-GW-KAFB03-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |

## Table B-5. Summary of Holding Times for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **SW8310** | ST106-GW-KAFB16-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/17/2010 |
| | ST106-GW-P-10610-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/16/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/24/2010 |
| | ST106-GW-P-10614-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/17/2010 |
| | ST106-GW-P-10628-14062010 | WATER | N | 2 Days - E | 6/14/2010 | 6/16/2010 | 6/16/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 6 Days - E | 6/16/2010 | 6/22/2010 | 6/23/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 6 Days - E | 6/16/2010 | 6/22/2010 | 6/22/2010 |
| | ST106-GW-P-1065-16062010 | WATER | N | 6 Days - E | 6/16/2010 | 6/22/2010 | 6/24/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/24/2010 |
| | ST106-GW-P-1066-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/25/2010 |
| | ST106-GW-P-1068-21062010 | WATER | N | 2 Days - E | 6/21/2010 | 6/23/2010 | 6/24/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 6 Days - E | 6/16/2010 | 6/22/2010 | 6/23/2010 |
| | ST106-GW-P-1069-16062010 | WATER | N | 6 Days - E | 6/16/2010 | 6/22/2010 | 6/22/2010 |
| | ST106-GW-VA2-06052010 | WATER | N | 4 Days - E | 5/6/2010 | 5/10/2010 | 5/11/2010 |

* Holding Time - Type 'A' = Analysis holding time, 'E' = Extraction holding time

**QA/QC Type**

N = Normal Environmental Sample
FD = Field Duplicate

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | | | | |
| | 041710MB | WATER | LB | 2515580 | Chloride | 4/17/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 041710MB | | LB | 2515580 | Nitrate | 4/17/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 041710MB | | LB | 2515580 | Sulfate | 4/17/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042010MB | | LB | 2515592 | Chloride | 4/20/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042010MB | | LB | 2515592 | Nitrate | 4/20/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 042010MB | | LB | 2515592 | Sulfate | 4/20/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042110MB | | LB | 2515603 | Chloride | 4/21/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042110MB | | LB | 2515603 | Nitrate | 4/21/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 042110MB | | LB | 2515603 | Sulfate | 4/21/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042210MB | | LB | 2515619 | Chloride | 4/22/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042210MB | | LB | 2515619 | Nitrate | 4/22/2010 | 0.054 | 0.036 | 10 | J | MG/L |
| | 042210MB | | LB | 2515619 | Sulfate | 4/22/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042310MB | | LB | 2515638 | Chloride | 4/23/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042310MB | | LB | 2515638 | Nitrate | 4/23/2010 | 0.054 | 0.036 | 10 | J | MG/L |
| | 042310MB | | LB | 2515638 | Sulfate | 4/23/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042710MB | | LB | 2515679 | Chloride | 4/27/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042710MB | | LB | 2515679 | Nitrate | 4/27/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 042710MB | | LB | 2515679 | Sulfate | 4/27/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042810MB | | LB | 2515691 | Chloride | 4/28/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042810MB | | LB | 2515690 | Chloride | 4/28/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042810MB | | LB | 2515690 | Nitrate | 4/28/2010 | 0.052 | 0.036 | 10 | J | MG/L |
| | 042810MB | | LB | 2515691 | Nitrate | 4/28/2010 | 0.052 | 0.036 | 10 | J | MG/L |
| | 042810MB | | LB | 2515690 | Sulfate | 4/28/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042810MB | | LB | 2515691 | Sulfate | 4/28/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 042910MB | | LB | 2515707 | Chloride | 4/29/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 042910MB | | LB | 2515707 | Nitrate | 4/29/2010 | 0.055 | 0.036 | 10 | J | MG/L |
| | 042910MB | | LB | 2515707 | Sulfate | 4/29/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 043010MB | | LB | 2515725 | Chloride | 4/30/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 043010MB | | LB | 2515725 | Nitrate | 4/30/2010 | 0.053 | 0.036 | 10 | J | MG/L |
| | 043010MB | | LB | 2515725 | Sulfate | 4/30/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050110MB1 | | LB | 2515736 | Chloride | 5/1/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 050110MB1 | | LB | 2515736 | Nitrate | 5/1/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 050110MB1 | | LB | 2515736 | Sulfate | 5/1/2010 | 1 | 0.32 | 1 | U | MG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | | | | |
| | 050310MB1 | WATER | LB | 2515725 | Chloride | 5/4/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 050310MB1 | | LB | 2515725 | Nitrate | 5/4/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 050310MB1 | | LB | 2515725 | Sulfate | 5/4/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050410MB | | LB | 2515752 | Chloride | 5/4/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 050410MB | | LB | 2515752 | Nitrate | 5/4/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 050410MB | | LB | 2515752 | Sulfate | 5/4/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050510MB1 | | LB | 2515752 | Chloride | 5/5/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 050510MB1 | | LB | 2515752 | Nitrate | 5/5/2010 | 0.055 | 0.036 | 10 | J | MG/L |
| | 050510MB1 | | LB | 2515752 | Sulfate | 5/5/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050610MB | | LB | 2515786 | Chloride | 5/6/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 050610MB | | LB | 2515786 | Nitrate | 5/6/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 050610MB | | LB | 2515786 | Sulfate | 5/6/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050710MB | | LB | 2515808 | Chloride | 5/7/2010 | 0.4 | 0.34 | 1 | J | MG/L |
| | 050710MB | | LB | 2515807 | Chloride | 5/7/2010 | 0.4 | 0.34 | 1 | J | MG/L |
| | 050710MB | | LB | 2515807 | Nitrate | 5/7/2010 | 0.056 | 0.036 | 10 | J | MG/L |
| | 050710MB | | LB | 2515808 | Nitrate | 5/7/2010 | 0.056 | 0.036 | 10 | J | MG/L |
| | 050710MB | | LB | 2515808 | Sulfate | 5/7/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 050710MB | | LB | 2515807 | Sulfate | 5/7/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 061510MB | | LB | 2516238 | Chloride | 6/15/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 061510MB | | LB | 2516238 | Nitrate | 6/15/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 061510MB | | LB | 2516238 | Sulfate | 6/15/2010 | 0.47 | 0.32 | 1 | J | MG/L |
| | 061710MB | | LB | 2516259 | Chloride | 6/18/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 061710MB | | LB | 2516259 | Nitrate | 6/18/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 061710MB | | LB | 2516259 | Sulfate | 6/18/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 062110MB | | LB | 2516259 | Chloride | 6/21/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 062110MB | | LB | 2516259 | Nitrate | 6/21/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 062110MB | | LB | 2516259 | Sulfate | 6/21/2010 | 1 | 0.32 | 1 | U | MG/L |
| | 062210MB | | LB | 2516299 | Chloride | 6/22/2010 | 1 | 0.34 | 1 | U | MG/L |
| | 062210MB | | LB | 2516299 | Nitrate | 6/22/2010 | 10 | 0.036 | 10 | U | MG/L |
| | 062210MB | | LB | 2516299 | Sulfate | 6/22/2010 | 1 | 0.32 | 1 | U | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chloride | 4/22/2010 | 1 | 0.34 | 1 | U | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Nitrate | 4/22/2010 | 0.055 | 0.036 | 10 | J | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Sulfate | 4/22/2010 | 1 | 0.32 | 1 | U | MG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | | | | |
| | 29962MB | WATER | LB | 2515580 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515619 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515592 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515603 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515619 | Alkalinity, Carbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515580 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515592 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515603 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29962MB | | LB | 2515619 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515580 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515592 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515603 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515619 | Alkalinity, Bicarbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515619 | Alkalinity, Carbonate | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515592 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515580 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515603 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 29964MB | | LB | 2515619 | Alkalinity, Total | 4/23/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 30585MB | | LB | 2515638 | Alkalinity, Bicarbonate | 4/27/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 30585MB | | LB | 2515638 | Alkalinity, Total | 4/27/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 30590MB | | LB | 2515638 | Alkalinity, Bicarbonate | 4/27/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 30590MB | | LB | 2515638 | Alkalinity, Total | 4/27/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515691 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515690 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515707 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515707 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515690 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31067MB | | LB | 2515691 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31070MB | | LB | 2515691 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31070MB | | LB | 2515707 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31070MB | | LB | 2515690 | Alkalinity, Bicarbonate | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31070MB | | LB | 2515690 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31070MB | | LB | 2515691 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | | | | |
| | 31070MB | WATER | LB | 2515707 | Alkalinity, Total | 4/30/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31245MB | | LB | 2515736 | Alkalinity, Bicarbonate | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31245MB | | LB | 2515725 | Alkalinity, Bicarbonate | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31245MB | | LB | 2515736 | Alkalinity, Total | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31245MB | | LB | 2515725 | Alkalinity, Total | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31250MB | | LB | 2515736 | Alkalinity, Bicarbonate | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31250MB | | LB | 2515725 | Alkalinity, Bicarbonate | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31250MB | | LB | 2515736 | Alkalinity, Total | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 31250MB | | LB | 2515725 | Alkalinity, Total | 5/3/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515786 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515752 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515808 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515807 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515786 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515752 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515807 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33300MB | | LB | 2515808 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515807 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515786 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515752 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515808 | Alkalinity, Bicarbonate | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515807 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515808 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515752 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 33305MB | | LB | 2515786 | Alkalinity, Total | 5/15/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37627MB | | LB | 2516238 | Alkalinity, Bicarbonate | 6/17/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37627MB | | LB | 2516238 | Alkalinity, Total | 6/17/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37632MB | | LB | 2516238 | Alkalinity, Bicarbonate | 6/17/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37632MB | | LB | 2516238 | Alkalinity, Total | 6/17/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37944MB | | LB | 2516259 | Alkalinity, Bicarbonate | 6/19/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37944MB | | LB | 2516259 | Alkalinity, Total | 6/19/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37949MB | | LB | 2516259 | Alkalinity, Bicarbonate | 6/19/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 37949MB | | LB | 2516259 | Alkalinity, Total | 6/19/2010 | 5 | 0.5 | 5 | U | MG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | | | | | |
| | 38317MB | WATER | LB | 2516299 | Alkalinity, Bicarbonate | 6/24/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 38317MB | | LB | 2516299 | Alkalinity, Total | 6/24/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 38322MB | | LB | 2516299 | Alkalinity, Bicarbonate | 6/24/2010 | 5 | 0.5 | 5 | U | MG/L |
| | 38322MB | | LB | 2516299 | Alkalinity, Total | 6/24/2010 | 5 | 0.5 | 5 | U | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Alkalinity, Bicarbonate | 4/23/2010 | 1.5 | 0.5 | 5 | J | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Alkalinity, Carbonate | 4/23/2010 | 1.5 | 0.5 | 5 | J | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Alkalinity, Total | 4/23/2010 | 1.5 | 0.5 | 5 | J | MG/L |
| **SW6010B** | | | | | | | | | | | |
| | 29540MB | WATER | LB | 2515580 | Calcium | 4/20/2010 | 100 | 39 | 100 | U | UG/L |
| | 29540MB | | LB | 2515580 | Iron | 4/20/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 29540MB | | LB | 2515580 | Lead | 4/20/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 29540MB | | LB | 2515580 | Magnesium | 4/20/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 29540MB | | LB | 2515580 | Manganese | 4/20/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 29540MB | | LB | 2515580 | Potassium | 4/20/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 29540MB | | LB | 2515580 | Sodium | 4/20/2010 | 300 | 180 | 300 | U | UG/L |
| | 29753MB | | LB | 2515592 | Calcium | 4/22/2010 | 41 | 39 | 100 | J | UG/L |
| | 29753MB | | LB | 2515592 | Iron | 4/22/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 29753MB | | LB | 2515592 | Lead | 4/22/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 29753MB | | LB | 2515592 | Magnesium | 4/22/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 29753MB | | LB | 2515592 | Manganese | 4/22/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 29753MB | | LB | 2515592 | Potassium | 4/22/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 29753MB | | LB | 2515592 | Sodium | 4/22/2010 | 300 | 180 | 300 | U | UG/L |
| | 29944MB | | LB | 2515603 | Calcium | 7/7/2010 | 100 | 39 | 100 | U | UG/L |
| | 29944MB | | LB | 2515603 | Iron | 4/26/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 29944MB | | LB | 2515603 | Lead | 4/26/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 29944MB | | LB | 2515603 | Magnesium | 7/7/2010 | 22.6 | 9.8 | 100 | J | UG/L |
| | 29944MB | | LB | 2515603 | Manganese | 4/26/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 29944MB | | LB | 2515603 | Potassium | 7/7/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 29944MB | | LB | 2515603 | Sodium | 7/7/2010 | 300 | 180 | 300 | U | UG/L |
| | 30373MB | | LB | 2515619 | Iron | 5/6/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 30373MB | | LB | 2515619 | Lead | 5/6/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 30373MB | | LB | 2515619 | Manganese | 5/6/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 30455MB | | LB | 2515638 | Calcium | 4/27/2010 | 100 | 39 | 100 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | | | | |
| | 30455MB | WATER | LB | 2515638 | Iron | 4/27/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 30455MB | | LB | 2515638 | Lead | 4/27/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 30455MB | | LB | 2515638 | Magnesium | 4/27/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 30455MB | | LB | 2515638 | Manganese | 4/27/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 30455MB | | LB | 2515638 | Potassium | 4/27/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 30455MB | | LB | 2515638 | Sodium | 4/27/2010 | 300 | 180 | 300 | U | UG/L |
| | 30846MB | | LB | 2515679 | Calcium | 4/30/2010 | 100 | 39 | 100 | U | UG/L |
| | 30846MB | | LB | 2515679 | Iron | 4/30/2010 | 28 | 5.5 | 100 | J | UG/L |
| | 30846MB | | LB | 2515679 | Lead | 4/30/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 30846MB | | LB | 2515679 | Magnesium | 4/30/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 30846MB | | LB | 2515679 | Manganese | 4/30/2010 | 0.404 | 0.35 | 10 | J | UG/L |
| | 30846MB | | LB | 2515679 | Sodium | 4/30/2010 | 300 | 180 | 300 | U | UG/L |
| | 30846MBR1 | | LB | 2515679 | Potassium | 7/13/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31212MB | | LB | 2515707 | Calcium | 5/3/2010 | 100 | 39 | 100 | U | UG/L |
| | 31212MB | | LB | 2515691 | Calcium | 5/3/2010 | 100 | 39 | 100 | U | UG/L |
| | 31212MB | | LB | 2515690 | Calcium | 5/3/2010 | 100 | 39 | 100 | U | UG/L |
| | 31212MB | | LB | 2515691 | Iron | 5/3/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31212MB | | LB | 2515690 | Iron | 5/3/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31212MB | | LB | 2515707 | Iron | 5/3/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31212MB | | LB | 2515690 | Lead | 5/3/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31212MB | | LB | 2515691 | Lead | 5/3/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31212MB | | LB | 2515707 | Lead | 5/3/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31212MB | | LB | 2515707 | Magnesium | 5/3/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31212MB | | LB | 2515691 | Magnesium | 5/3/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31212MB | | LB | 2515690 | Magnesium | 5/3/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31212MB | | LB | 2515690 | Manganese | 5/3/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31212MB | | LB | 2515691 | Manganese | 5/3/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31212MB | | LB | 2515707 | Manganese | 5/3/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31212MB | | LB | 2515707 | Potassium | 5/3/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31212MB | | LB | 2515691 | Potassium | 5/3/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31212MB | | LB | 2515690 | Potassium | 5/3/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31212MB | | LB | 2515707 | Sodium | 5/3/2010 | 630 | 180 | 300 | | UG/L |
| | 31212MB | | LB | 2515690 | Sodium | 5/3/2010 | 630 | 180 | 300 | | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | | | | |
| | 31212MB | WATER | LB | 2515691 | Sodium | 5/3/2010 | 630 | 180 | 300 | | UG/L |
| | 31262MB | | LB | 2515736 | Calcium | 5/4/2010 | 100 | 39 | 100 | U | UG/L |
| | 31262MB | | LB | 2515725 | Calcium | 5/4/2010 | 100 | 39 | 100 | U | UG/L |
| | 31262MB | | LB | 2515736 | Iron | 5/4/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31262MB | | LB | 2515725 | Iron | 5/4/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31262MB | | LB | 2515736 | Lead | 5/4/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31262MB | | LB | 2515725 | Lead | 5/4/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31262MB | | LB | 2515736 | Magnesium | 5/4/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31262MB | | LB | 2515725 | Magnesium | 5/4/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31262MB | | LB | 2515736 | Manganese | 5/4/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31262MB | | LB | 2515725 | Manganese | 5/4/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31262MB | | LB | 2515725 | Potassium | 5/4/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31262MB | | LB | 2515736 | Potassium | 5/4/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31262MB | | LB | 2515725 | Sodium | 5/4/2010 | 300 | 180 | 300 | U | UG/L |
| | 31262MB | | LB | 2515736 | Sodium | 5/4/2010 | 300 | 180 | 300 | U | UG/L |
| | 31612MB | | LB | 2515752 | Calcium | 5/6/2010 | 120 | 39 | 100 | | UG/L |
| | 31612MB | | LB | 2515752 | Iron | 5/6/2010 | 8.01 | 5.5 | 100 | J | UG/L |
| | 31612MB | | LB | 2515752 | Lead | 5/6/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31612MB | | LB | 2515752 | Magnesium | 5/6/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31612MB | | LB | 2515752 | Manganese | 5/6/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31612MB | | LB | 2515752 | Potassium | 5/6/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31612MB | | LB | 2515752 | Sodium | 5/6/2010 | 300 | 180 | 300 | U | UG/L |
| | 31794MB | | LB | 2515786 | Calcium | 5/7/2010 | 54.2 | 39 | 100 | J | UG/L |
| | 31794MB | | LB | 2515786 | Iron | 5/7/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 31794MB | | LB | 2515786 | Lead | 5/7/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 31794MB | | LB | 2515786 | Magnesium | 5/7/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 31794MB | | LB | 2515786 | Manganese | 5/7/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 31794MB | | LB | 2515786 | Potassium | 5/7/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 31794MB | | LB | 2515786 | Sodium | 5/7/2010 | 300 | 180 | 300 | U | UG/L |
| | 32332MB | | LB | 2515807 | Calcium | 5/11/2010 | 100 | 39 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Calcium | 5/11/2010 | 100 | 39 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Calcium | 5/11/2010 | 100 | 39 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Iron | 5/11/2010 | 100 | 5.5 | 100 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | | | | |
| | 32332MB | WATER | LB | 2515808 | Iron | 5/11/2010 | 50 | 5.5 | 50 | U | UG/L |
| | 32332MB | | LB | 2515807 | Iron | 5/11/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Lead | 5/11/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 32332MB | | LB | 2515807 | Lead | 5/11/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 32332MB | | LB | 2515808 | Lead | 5/11/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 32332MB | | LB | 2515807 | Magnesium | 5/11/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Magnesium | 5/11/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Magnesium | 5/11/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 32332MB | | LB | 2515808 | Manganese | 5/11/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 32332MB | | LB | 2515807 | Manganese | 5/11/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 32332MB | | LB | 2515808 | Manganese | 5/11/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 32332MB | | LB | 2515808 | Potassium | 5/11/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 32332MB | | LB | 2515807 | Potassium | 5/11/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 32332MB | | LB | 2515808 | Potassium | 5/11/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 32332MB | | LB | 2515808 | Sodium | 5/11/2010 | 300 | 180 | 300 | U | UG/L |
| | 32332MB | | LB | 2515808 | Sodium | 5/11/2010 | 300 | 180 | 300 | U | UG/L |
| | 32332MB | | LB | 2515807 | Sodium | 5/11/2010 | 300 | 180 | 300 | U | UG/L |
| | 37653MB | | LB | 2516238 | Calcium, dissolved | 6/21/2010 | 248 | 39 | 100 | | UG/L |
| | 37653MB | | LB | 2516238 | Iron, dissolved | 6/21/2010 | 10.2 | 5.5 | 100 | J | UG/L |
| | 37653MB | | LB | 2516238 | Lead, dissolved | 6/21/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 37653MB | | LB | 2516238 | Magnesium, dissolved | 6/21/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 37653MB | | LB | 2516238 | Manganese, dissolved | 6/21/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 37653MB | | LB | 2516238 | Potassium, dissolved | 6/21/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 37653MB | | LB | 2516238 | Sodium, dissolved | 6/21/2010 | 300 | 180 | 300 | U | UG/L |
| | 37977MB | | LB | 2516259 | Calcium, dissolved | 6/21/2010 | 100 | 39 | 100 | U | UG/L |
| | 37977MB | | LB | 2516259 | Iron, dissolved | 6/21/2010 | 100 | 5.5 | 100 | U | UG/L |
| | 37977MB | | LB | 2516259 | Lead, dissolved | 6/21/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 37977MB | | LB | 2516259 | Magnesium, dissolved | 6/21/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 37977MB | | LB | 2516259 | Manganese, dissolved | 6/21/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 37977MB | | LB | 2516259 | Potassium, dissolved | 6/21/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 37977MB | | LB | 2516259 | Sodium, dissolved | 6/21/2010 | 300 | 180 | 300 | U | UG/L |
| | 38196MB | | LB | 2516299 | Calcium, dissolved | 6/25/2010 | 100 | 39 | 100 | U | UG/L |
| | 38196MB | | LB | 2516299 | Iron, dissolved | 6/25/2010 | 100 | 5.5 | 100 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | | | | | |
| | 38196MB | WATER | LB | 2516299 | Lead, dissolved | 6/25/2010 | 15 | 3.7 | 15 | U | UG/L |
| | 38196MB | | LB | 2516299 | Magnesium, dissolved | 6/25/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 38196MB | | LB | 2516299 | Manganese, dissolved | 6/25/2010 | 10 | 0.35 | 10 | U | UG/L |
| | 38196MB | | LB | 2516299 | Potassium, dissolved | 6/25/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 38196MB | | LB | 2516299 | Sodium, dissolved | 6/25/2010 | 300 | 180 | 300 | U | UG/L |
| | 40092MB | | LB | 2515619 | Calcium | 7/12/2010 | 100 | 39 | 100 | U | UG/L |
| | 40092MB | | LB | 2515619 | Magnesium | 7/12/2010 | 100 | 9.8 | 100 | U | UG/L |
| | 40092MB | | LB | 2515619 | Potassium | 7/12/2010 | 500 | 71.7 | 500 | U | UG/L |
| | 40092MB | | LB | 2515619 | Sodium | 7/12/2010 | 300 | 180 | 300 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Calcium | 7/9/2010 | 1170 | 39 | 100 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Iron | 4/27/2010 | 270 | 5.5 | 100 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Lead | 4/27/2010 | 3.98 | 3.7 | 15 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Magnesium | 7/9/2010 | 234 | 9.8 | 100 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Manganese | 4/27/2010 | 18.6 | 0.35 | 10 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Potassium | 7/9/2010 | 124 | 71.7 | 500 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Sodium | 7/9/2010 | 3540 | 180 | 300 | | UG/L |
| **SW8011** | | | | | | | | | | | |
| | 041BLK | WATER | LB | 2515807 | 1,2-Dibromoethane | 5/19/2010 | 0.0199 | 0.008 | 0.02 | U | UG/L |
| | 041BLK | | LB | 2515808 | 1,2-Dibromoethane | 5/19/2010 | 0.0199 | 0.008 | 0.02 | U | UG/L |
| | 303BLK | | LB | 2516259 | 1,2-Dibromoethane | 6/25/2010 | 0.0198 | 0.008 | 0.02 | U | UG/L |
| | 311BLK | | LB | 2516299 | 1,2-Dibromoethane | 6/25/2010 | 0.0196 | 0.008 | 0.02 | U | UG/L |
| | 311BLK | | LB | 2516238 | 1,2-Dibromoethane | 6/25/2010 | 0.0196 | 0.008 | 0.02 | U | UG/L |
| | 8135BLK | | LB | 2515807 | 1,2-Dibromoethane | 5/27/2010 | 0.0199 | 0.008 | 0.02 | U | UG/L |
| | 915BLK | | LB | 2515580 | 1,2-Dibromoethane | 4/23/2010 | 0.0197 | 0.008 | 0.02 | U | UG/L |
| | 915BLK | | LB | 2515546 | 1,2-Dibromoethane | 4/23/2010 | 0.0197 | 0.008 | 0.02 | U | UG/L |
| | 939BLK | | LB | 2515619 | 1,2-Dibromoethane | 4/28/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 942BLK | | LB | 2515638 | 1,2-Dibromoethane | 4/29/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 942BLK | | LB | 2515679 | 1,2-Dibromoethane | 4/29/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 944BLK | | LB | 2515592 | 1,2-Dibromoethane | 4/30/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 944BLK | | LB | 2515603 | 1,2-Dibromoethane | 4/30/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 953BLK | | LB | 2515690 | 1,2-Dibromoethane | 5/2/2010 | 0.0197 | 0.008 | 0.02 | U | UG/L |
| | 953BLK | | LB | 2515707 | 1,2-Dibromoethane | 5/2/2010 | 0.0197 | 0.008 | 0.02 | U | UG/L |
| | 953BLK | | LB | 2515691 | 1,2-Dibromoethane | 5/2/2010 | 0.0197 | 0.008 | 0.02 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | | | | | |
| | 992BLK | WATER | LB | 2515786 | 1,2-Dibromoethane | 5/7/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 992BLK | | LB | 2515752 | 1,2-Dibromoethane | 5/7/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 992BLK | | LB | 2515736 | 1,2-Dibromoethane | 5/7/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | 992BLK | | LB | 2515725 | 1,2-Dibromoethane | 5/7/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dibromoethane | 4/28/2010 | 0.02 | 0.008 | 0.02 | U | UG/L |
| **SW8015-E** | | | | | | | | | | | |
| | 7900MB | WATER | LB | 2515580 | TPH C10-C28 | 4/21/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7913MB | | LB | 2515592 | TPH C10-C28 | 4/23/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7913MB | | LB | 2515603 | TPH C10-C28 | 4/23/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7930MB | | LB | 2515619 | TPH C10-C28 | 4/27/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7930MB | | LB | 2515638 | TPH C10-C28 | 4/28/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7938MB | | LB | 2515679 | TPH C10-C28 | 4/28/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 7950MB | | LB | 2515690 | TPH C10-C28 | 4/29/2010 | 0.051 | 0.05 | 0.25 | J | MG/L |
| | 7950MB | | LB | 2515691 | TPH C10-C28 | 4/29/2010 | 0.051 | 0.05 | 0.25 | J | MG/L |
| | 7963MB | | LB | 2515707 | TPH C10-C28 | 5/3/2010 | 0.088 | 0.05 | 0.25 | J | MG/L |
| | 7963MB | | LB | 2515725 | TPH C10-C28 | 5/3/2010 | 0.088 | 0.05 | 0.25 | J | MG/L |
| | 7969MB | | LB | 2515736 | TPH C10-C28 | 5/4/2010 | 0.059 | 0.05 | 0.25 | J | MG/L |
| | 7977BLK | | LB | 2515752 | TPH C10-C28 | 5/6/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 8000MB.D | | LB | 2515786 | TPH C10-C28 | 5/10/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 8017BLK | | LB | 2515808 | TPH C10-C28 | 5/13/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 8273MB | | LB | 2516238 | TPH C10-C28 | 6/16/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 8298MB | | LB | 2516259 | TPH C10-C28 | 6/21/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | 8313MB | | LB | 2516299 | TPH C10-C28 | 6/24/2010 | 0.25 | 0.05 | 0.25 | U | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | TPH C10-C28 | 4/27/2010 | 0.062 | 0.054 | 0.27 | J | MG/L |
| **SW8015-P** | | | | | | | | | | | |
| | 0426BLK1 | WATER | LB | 2515592 | TPH C6-C10 | 4/26/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0426BLK1 | | LB | 2515580 | TPH C6-C10 | 4/26/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0427BLK3 | | LB | 2515603 | TPH C6-C10 | 4/27/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0503BLK1 | | LB | 2515638 | TPH C6-C10 | 5/3/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0503BLK1 | | LB | 2515619 | TPH C6-C10 | 5/3/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0504BLK1 | | LB | 2515679 | TPH C6-C10 | 5/4/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0504BLK1 | | LB | 2515638 | TPH C6-C10 | 5/4/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0505BLK1 | | LB | 2515691 | TPH C6-C10 | 5/5/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8015-P** | | | | | | | | | | | |
| | 0507BLK1 | WATER | LB | 2515707 | TPH C6-C10 | 5/7/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0507BLK1 | | LB | 2515690 | TPH C6-C10 | 5/7/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0510BLK1 | | LB | 2515725 | TPH C6-C10 | 5/10/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0511BLK1 | | LB | 2515736 | TPH C6-C10 | 5/11/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0511BLK1 | | LB | 2515752 | TPH C6-C10 | 5/11/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0513BLK1 | | LB | 2515786 | TPH C6-C10 | 5/13/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0517BLK2 | | LB | 2515808 | TPH C6-C10 | 5/17/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0517BLK2 | | LB | 2515807 | TPH C6-C10 | 5/17/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0616BLK1 | | LB | 2516238 | TPH C6-C10 | 6/16/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0621BLK1 | | LB | 2516259 | TPH C6-C10 | 6/21/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0621BLK1 | | LB | 2516238 | TPH C6-C10 | 6/21/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | 0628BLK1 | | LB | 2516299 | TPH C6-C10 | 6/28/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | TPH C6-C10 | 5/3/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | TPH C6-C10 | 5/11/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | TPH C6-C10 | 6/21/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | TPH C6-C10 | 4/26/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | TPH C6-C10 | 5/4/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | TPH C6-C10 | 6/21/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | TPH C6-C10 | 4/27/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | TPH C6-C10 | 5/7/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | TPH C6-C10 | 6/28/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | TPH C6-C10 | 5/3/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | TPH C6-C10 | 5/7/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | TPH C6-C10 | 5/10/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | TPH C6-C10 | 5/11/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-05052010 | | TB | 2515786 | TPH C6-C10 | 5/13/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | TPH C6-C10 | 5/17/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | TPH C6-C10 | 5/17/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-21042010 | | TB | 2515619 | TPH C6-C10 | 5/3/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-27042010 | | TB | 2515691 | TPH C6-C10 | 5/5/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | TPH C6-C10 | 4/26/2010 | 0.064 | 0.009 | 0.064 | U | MG/L |
| **SW8260B** | | | | | | | | | | | |
| | 041910BLK32 | WATER | LB | 2515546 | 1,1,1,2-Tetrachloroethane | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 041910BLK32 | WATER | LB | 2515546 | 1,1,1-Trichloroethane | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,1,2,2-Tetrachloroethane | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,1,2-Trichloroethane | 4/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,1-Dichloroethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,1-Dichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,1-Dichloropropene | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2,3-Trichlorobenzene | 4/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2,3-Trichloropropane | 4/19/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2,4-Trichlorobenzene | 4/19/2010 | 0.14 | 0.11 | 1 | J | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2,4-Trimethylbenzene | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2-Dibromo-3-chloropropane | 4/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2-Dibromoethane | 4/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2-Dichlorobenzene | 4/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2-Dichloroethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,2-Dichloropropane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,3,5-Trimethylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,3-Dichlorobenzene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,3-Dichloropropane | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 1,4-Dichlorobenzene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 2,2-Dichloropropane | 4/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 2-Butanone | 4/19/2010 | 6 | 2 | 6 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 2-Chlorotoluene | 4/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 2-Hexanone | 4/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 4-Chlorotoluene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | 4-Methyl-2-Pentanone | 4/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Acetone | 4/19/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Benzene | 4/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Bromobenzene | 4/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Bromochloromethane | 4/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Bromodichloromethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Bromoform | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Bromomethane | 4/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Carbon disulfide | 4/19/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 041910BLK32 | WATER | LB | 2515546 | Carbon tetrachloride | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Chlorobenzene | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Chloroethane | 4/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Chloroform | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Chloromethane | 4/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | cis-1,2-Dichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | cis-1,3-Dichloropropene | 4/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Dibromochloromethane | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Dibromomethane | 4/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Dichlorodifluoromethane | 4/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Ethylbenzene | 4/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Hexachlorobutadiene | 4/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Isopropylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | m,p-Xylene | 4/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Methyl tert-butyl ether (MTBE) | 4/19/2010 | 5 | 0.16 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Methylene chloride | 4/19/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Naphthalene | 4/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | n-Butylbenzene | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | n-Propylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | o-Xylene | 4/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | p-Isopropyltoluene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | sec-Butylbenzene | 4/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Styrene | 4/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | tert-Butylbenzene | 4/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Tetrachloroethene | 4/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Toluene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Trans-1,2-Dichloroethene | 4/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | trans-1,3-Dichloropropene | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Trichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Trichlorofluoromethane | 4/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Vinyl Chloride | 4/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 041910BLK32 | | LB | 2515546 | Xylenes, Total | 4/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1,1,2-Tetrachloroethane | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 042010BLK32 | WATER | LB | 2515580 | 1,1,1-Trichloroethane | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1,2,2-Tetrachloroethane | 4/20/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1,2-Trichloroethane | 4/20/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1-Dichloroethane | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1-Dichloroethene | 4/20/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,1-Dichloropropene | 4/20/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2,3-Trichlorobenzene | 4/20/2010 | 0.17 | 0.16 | 1.2 | J | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2,3-Trichloropropane | 4/20/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2,4-Trichlorobenzene | 4/20/2010 | 0.15 | 0.11 | 1 | J | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2,4-Trimethylbenzene | 4/20/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2-Dibromo-3-chloropropane | 4/20/2010 | 5 | 1 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2-Dibromoethane | 4/20/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2-Dichlorobenzene | 4/20/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2-Dichloroethane | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,2-Dichloropropane | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,3,5-Trimethylbenzene | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,3-Dichlorobenzene | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,3-Dichloropropane | 4/20/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 1,4-Dichlorobenzene | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 2,2-Dichloropropane | 4/20/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 2-Butanone | 4/20/2010 | 6 | 2 | 6 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 2-Chlorotoluene | 4/20/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 2-Hexanone | 4/20/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 4-Chlorotoluene | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | 4-Methyl-2-Pentanone | 4/20/2010 | 5 | 1 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Acetone | 4/20/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Benzene | 4/20/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Bromobenzene | 4/20/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Bromochloromethane | 4/20/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Bromodichloromethane | 4/20/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Bromoform | 4/20/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Bromomethane | 4/20/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Carbon disulfide | 4/20/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 042010BLK32 | WATER | LB | 2515580 | Carbon tetrachloride | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Chlorobenzene | 4/20/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Chloroethane | 4/20/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Chloroform | 4/20/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Chloromethane | 4/20/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | cis-1,2-Dichloroethene | 4/20/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | cis-1,3-Dichloropropene | 4/20/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Dibromochloromethane | 4/20/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Dibromomethane | 4/20/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Dichlorodifluoromethane | 4/20/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Ethylbenzene | 4/20/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Hexachlorobutadiene | 4/20/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Isopropylbenzene | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | m,p-Xylene | 4/20/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Methyl tert-butyl ether (MTBE) | 4/20/2010 | 5 | 0.16 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Methylene chloride | 4/20/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Naphthalene | 4/20/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | n-Butylbenzene | 4/20/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | n-Propylbenzene | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | o-Xylene | 4/20/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | p-Isopropyltoluene | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | sec-Butylbenzene | 4/20/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Styrene | 4/20/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | tert-Butylbenzene | 4/20/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Tetrachloroethene | 4/20/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Toluene | 4/20/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Trans-1,2-Dichloroethene | 4/20/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | trans-1,3-Dichloropropene | 4/20/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Trichloroethene | 4/20/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Trichlorofluoromethane | 4/20/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Vinyl Chloride | 4/20/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 042010BLK32 | | LB | 2515580 | Xylenes, Total | 4/20/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1,1,2-Tetrachloroethane | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 042110BLK32 | WATER | LB | 2515580 | 1,1,1-Trichloroethane | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1,2,2-Tetrachloroethane | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1,2-Trichloroethane | 4/21/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1-Dichloroethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1-Dichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,1-Dichloropropene | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2,3-Trichlorobenzene | 4/21/2010 | 0.18 | 0.16 | 1.2 | J | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2,3-Trichloropropane | 4/21/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2,4-Trichlorobenzene | 4/21/2010 | 0.15 | 0.11 | 1 | J | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2,4-Trimethylbenzene | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2-Dibromo-3-chloropropane | 4/21/2010 | 5 | 1 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2-Dibromoethane | 4/21/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2-Dichlorobenzene | 4/21/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2-Dichloroethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,2-Dichloropropane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,3,5-Trimethylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,3-Dichlorobenzene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,3-Dichloropropane | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 1,4-Dichlorobenzene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 2,2-Dichloropropane | 4/21/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 2-Butanone | 4/21/2010 | 6 | 2 | 6 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 2-Chlorotoluene | 4/21/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 2-Hexanone | 4/21/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 4-Chlorotoluene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | 4-Methyl-2-Pentanone | 4/21/2010 | 5 | 1 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Acetone | 4/21/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Benzene | 4/21/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Bromobenzene | 4/21/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Bromochloromethane | 4/21/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Bromodichloromethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Bromoform | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Bromomethane | 4/21/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Carbon disulfide | 4/21/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 042110BLK32 | WATER | LB | 2515580 | Carbon tetrachloride | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Chlorobenzene | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Chloroethane | 4/21/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Chloroform | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Chloromethane | 4/21/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | cis-1,2-Dichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | cis-1,3-Dichloropropene | 4/21/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Dibromochloromethane | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Dibromomethane | 4/21/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Dichlorodifluoromethane | 4/21/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Ethylbenzene | 4/21/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Hexachlorobutadiene | 4/21/2010 | 0.4 | 0.36 | 1 | J | UG/L |
| | 042110BLK32 | | LB | 2515580 | Isopropylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | m,p-Xylene | 4/21/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Methyl tert-butyl ether (MTBE) | 4/21/2010 | 5 | 0.16 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Methylene chloride | 4/21/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Naphthalene | 4/21/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | n-Butylbenzene | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | n-Propylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | o-Xylene | 4/21/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | p-Isopropyltoluene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | sec-Butylbenzene | 4/21/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Styrene | 4/21/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | tert-Butylbenzene | 4/21/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Tetrachloroethene | 4/21/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Toluene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Trans-1,2-Dichloroethene | 4/21/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | trans-1,3-Dichloropropene | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Trichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Trichlorofluoromethane | 4/21/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Vinyl Chloride | 4/21/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 042110BLK32 | | LB | 2515580 | Xylenes, Total | 4/21/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1,1,2-Tetrachloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0427BLK54 | WATER | LB | 2515603 | 1,1,1,2-Tetrachloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1,1-Trichloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1,1-Trichloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1,2,2-Tetrachloroethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1,2,2-Tetrachloroethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1,2-Trichloroethane | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1,2-Trichloroethane | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,1-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,1-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2,3-Trichlorobenzene | 4/27/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2,3-Trichlorobenzene | 4/27/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2,3-Trichloropropane | 4/27/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2,3-Trichloropropane | 4/27/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2,4-Trichlorobenzene | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2,4-Trichlorobenzene | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2,4-Trimethylbenzene | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2,4-Trimethylbenzene | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2-Dibromo-3-chloropropane | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2-Dibromo-3-chloropropane | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2-Dibromoethane | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2-Dibromoethane | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2-Dichlorobenzene | 4/27/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2-Dichlorobenzene | 4/27/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,2-Dichloropropane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,2-Dichloropropane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,3,5-Trimethylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,3,5-Trimethylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0427BLK54 | WATER | LB | 2515592 | 1,3-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,3-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,3-Dichloropropane | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,3-Dichloropropane | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 1,4-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 1,4-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 2,2-Dichloropropane | 4/27/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 2,2-Dichloropropane | 4/27/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 2-Butanone | 4/27/2010 | 6 | 2 | 6 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 2-Butanone | 4/27/2010 | 6 | 2 | 6 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 2-Chlorotoluene | 4/27/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 2-Chlorotoluene | 4/27/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 2-Hexanone | 4/27/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 2-Hexanone | 4/27/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 4-Chlorotoluene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 4-Chlorotoluene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | 4-Methyl-2-Pentanone | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | 4-Methyl-2-Pentanone | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Acetone | 4/27/2010 | 3.7 | 1.3 | 10 | J | UG/L |
| | 0427BLK54 | | LB | 2515603 | Acetone | 4/27/2010 | 3.7 | 1.3 | 10 | J | UG/L |
| | 0427BLK54 | | LB | 2515592 | Benzene | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Benzene | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Bromobenzene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Bromobenzene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Bromochloromethane | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Bromochloromethane | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Bromodichloromethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Bromodichloromethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Bromoform | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Bromoform | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Bromomethane | 4/27/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Bromomethane | 4/27/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Carbon disulfide | 4/27/2010 | 0.33 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0427BLK54 | WATER | LB | 2515603 | Carbon disulfide | 4/27/2010 | 0.33 | 0.19 | 2 | J | UG/L |
| | 0427BLK54 | | LB | 2515592 | Carbon tetrachloride | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Carbon tetrachloride | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Chlorobenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Chlorobenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Chloroethane | 4/27/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Chloroethane | 4/27/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Chloroform | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Chloroform | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Chloromethane | 4/27/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Chloromethane | 4/27/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | cis-1,2-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | cis-1,2-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | cis-1,3-Dichloropropene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | cis-1,3-Dichloropropene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Dibromochloromethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Dibromochloromethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Dibromomethane | 4/27/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Dibromomethane | 4/27/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Dichlorodifluoromethane | 4/27/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Dichlorodifluoromethane | 4/27/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Ethylbenzene | 4/27/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Ethylbenzene | 4/27/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Hexachlorobutadiene | 4/27/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Hexachlorobutadiene | 4/27/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Isopropylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Isopropylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | m,p-Xylene | 4/27/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | m,p-Xylene | 4/27/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Methyl tert-butyl ether (MTBE) | 4/27/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Methyl tert-butyl ether (MTBE) | 4/27/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Methylene chloride | 4/27/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Methylene chloride | 4/27/2010 | 5 | 0.66 | 5 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0427BLK54 | WATER | LB | 2515592 | Naphthalene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Naphthalene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | n-Butylbenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | n-Butylbenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | n-Propylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | n-Propylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | o-Xylene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | o-Xylene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | p-Isopropyltoluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | p-Isopropyltoluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | sec-Butylbenzene | 4/27/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | sec-Butylbenzene | 4/27/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Styrene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Styrene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | tert-Butylbenzene | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | tert-Butylbenzene | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Tetrachloroethene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Tetrachloroethene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Toluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Toluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Trans-1,2-Dichloroethene | 4/27/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Trans-1,2-Dichloroethene | 4/27/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | trans-1,3-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | trans-1,3-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Trichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Trichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Trichlorofluoromethane | 4/27/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Trichlorofluoromethane | 4/27/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Vinyl Chloride | 4/27/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Vinyl Chloride | 4/27/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0427BLK54 | | LB | 2515592 | Xylenes, Total | 4/27/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0427BLK54 | | LB | 2515603 | Xylenes, Total | 4/27/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1,1,2-Tetrachloroethane | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0429BLK52 | WATER | LB | 2515603 | 1,1,1-Trichloroethane | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1,2,2-Tetrachloroethane | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1,2-Trichloroethane | 4/29/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1-Dichloroethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1-Dichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,1-Dichloropropene | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2,3-Trichlorobenzene | 4/29/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2,3-Trichloropropane | 4/29/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2,4-Trichlorobenzene | 4/29/2010 | 0.12 | 0.11 | 1 | J | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2,4-Trimethylbenzene | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2-Dibromo-3-chloropropane | 4/29/2010 | 5 | 1 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2-Dibromoethane | 4/29/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2-Dichlorobenzene | 4/29/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2-Dichloroethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,2-Dichloropropane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,3,5-Trimethylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,3-Dichlorobenzene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,3-Dichloropropane | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 1,4-Dichlorobenzene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 2,2-Dichloropropane | 4/29/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 2-Butanone | 4/29/2010 | 6 | 2 | 6 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 2-Chlorotoluene | 4/29/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 2-Hexanone | 4/29/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 4-Chlorotoluene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | 4-Methyl-2-Pentanone | 4/29/2010 | 5 | 1 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Acetone | 4/29/2010 | 3.9 | 1.3 | 10 | J | UG/L |
| | 0429BLK52 | | LB | 2515603 | Benzene | 4/29/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Bromobenzene | 4/29/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Bromochloromethane | 4/29/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Bromodichloromethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Bromoform | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Bromomethane | 4/29/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Carbon disulfide | 4/29/2010 | 0.37 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0429BLK52 | WATER | LB | 2515603 | Carbon tetrachloride | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Chlorobenzene | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Chloroethane | 4/29/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Chloroform | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Chloromethane | 4/29/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | cis-1,2-Dichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | cis-1,3-Dichloropropene | 4/29/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Dibromochloromethane | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Dibromomethane | 4/29/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Dichlorodifluoromethane | 4/29/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Ethylbenzene | 4/29/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Hexachlorobutadiene | 4/29/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Isopropylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | m,p-Xylene | 4/29/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Methyl tert-butyl ether (MTBE) | 4/29/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Methylene chloride | 4/29/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Naphthalene | 4/29/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | n-Butylbenzene | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | n-Propylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | o-Xylene | 4/29/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | p-Isopropyltoluene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | sec-Butylbenzene | 4/29/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Styrene | 4/29/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | tert-Butylbenzene | 4/29/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Tetrachloroethene | 4/29/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Toluene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Trans-1,2-Dichloroethene | 4/29/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | trans-1,3-Dichloropropene | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Trichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Trichlorofluoromethane | 4/29/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Vinyl Chloride | 4/29/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0429BLK52 | | LB | 2515603 | Xylenes, Total | 4/29/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050410BLKA33 | WATER | LB | 2515638 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2,3-Trichlorobenzene | 5/4/2010 | 0.23 | 0.16 | 1.2 | J | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2,4-Trichlorobenzene | 5/4/2010 | 0.19 | 0.11 | 1 | J | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2,4-Trimethylbenzene | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,3,5-Trimethylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Acetone | 5/4/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Benzene | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Carbon disulfide | 5/4/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050410BLKA33 | WATER | LB | 2515638 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Chloroform | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Ethylbenzene | 5/4/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Isopropylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | m,p-Xylene | 5/4/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Methylene chloride | 5/4/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | n-Propylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | o-Xylene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Toluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 050410BLKA33 | | LB | 2515638 | Xylenes, Total | 5/4/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0504BLK52 | WATER | LB | 2515619 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2,3-Trichlorobenzene | 5/4/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2,4-Trichlorobenzene | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2,4-Trimethylbenzene | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,3,5-Trimethylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Acetone | 5/4/2010 | 3.1 | 1.3 | 10 | J | UG/L |
| | 0504BLK52 | | LB | 2515619 | Benzene | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Carbon disulfide | 5/4/2010 | 0.29 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0504BLK52 | WATER | LB | 2515619 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Chloroform | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Ethylbenzene | 5/4/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Isopropylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | m,p-Xylene | 5/4/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Methylene chloride | 5/4/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | n-Propylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | o-Xylene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Toluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0504BLK52 | | LB | 2515619 | Xylenes, Total | 5/4/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0504BLK54 | WATER | LB | 2515638 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2,3-Trichlorobenzene | 5/4/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2,4-Trichlorobenzene | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2,4-Trimethylbenzene | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,3,5-Trimethylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Acetone | 5/4/2010 | 2.8 | 1.3 | 10 | J | UG/L |
| | 0504BLK54 | | LB | 2515638 | Benzene | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Carbon disulfide | 5/4/2010 | 0.3 | 0.19 | 2 | J | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0504BLK54 | WATER | LB | 2515638 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Chloroform | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Ethylbenzene | 5/4/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Isopropylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | m,p-Xylene | 5/4/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Methylene chloride | 5/4/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | n-Propylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | o-Xylene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Toluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0504BLK54 | | LB | 2515638 | Xylenes, Total | 5/4/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1,1,2-Tetrachloroethane | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0505BLK54 | WATER | LB | 2515679 | 1,1,1-Trichloroethane | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1,2,2-Tetrachloroethane | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1,2-Trichloroethane | 5/5/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1-Dichloroethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1-Dichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,1-Dichloropropene | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2,3-Trichlorobenzene | 5/5/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2,3-Trichloropropane | 5/5/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2,4-Trichlorobenzene | 5/5/2010 | 0.12 | 0.11 | 1 | J | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2,4-Trimethylbenzene | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2-Dibromo-3-chloropropane | 5/5/2010 | 5 | 1 | 5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2-Dibromoethane | 5/5/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2-Dichlorobenzene | 5/5/2010 | 0.089 | 0.077 | 1 | J | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2-Dichloroethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,2-Dichloropropane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,3,5-Trimethylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,3-Dichlorobenzene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,3-Dichloropropane | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 1,4-Dichlorobenzene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 2,2-Dichloropropane | 5/5/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 2-Butanone | 5/5/2010 | 6 | 2 | 6 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 2-Chlorotoluene | 5/5/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 2-Hexanone | 5/5/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 4-Chlorotoluene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | 4-Methyl-2-Pentanone | 5/5/2010 | 5 | 1 | 5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Acetone | 5/5/2010 | 4.4 | 1.3 | 10 | J | UG/L |
| | 0505BLK54 | | LB | 2515679 | Benzene | 5/5/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Bromobenzene | 5/5/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Bromochloromethane | 5/5/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Bromodichloromethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Bromoform | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Bromomethane | 5/5/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Carbon disulfide | 5/5/2010 | 0.28 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0505BLK54 | WATER | LB | 2515679 | Carbon tetrachloride | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Chlorobenzene | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Chloroethane | 5/5/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Chloroform | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Chloromethane | 5/5/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | cis-1,2-Dichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | cis-1,3-Dichloropropene | 5/5/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Dibromochloromethane | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Dibromomethane | 5/5/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Dichlorodifluoromethane | 5/5/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Ethylbenzene | 5/5/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Hexachlorobutadiene | 5/5/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Isopropylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | m,p-Xylene | 5/5/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Methyl tert-butyl ether (MTBE) | 5/5/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Methylene chloride | 5/5/2010 | 0.77 | 0.66 | 5 | J | UG/L |
| | 0505BLK54 | | LB | 2515679 | Naphthalene | 5/5/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | n-Butylbenzene | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | n-Propylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | o-Xylene | 5/5/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | p-Isopropyltoluene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | sec-Butylbenzene | 5/5/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Styrene | 5/5/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | tert-Butylbenzene | 5/5/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Tetrachloroethene | 5/5/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Toluene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Trans-1,2-Dichloroethene | 5/5/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | trans-1,3-Dichloropropene | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Trichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Trichlorofluoromethane | 5/5/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Vinyl Chloride | 5/5/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0505BLK54 | | LB | 2515679 | Xylenes, Total | 5/5/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1,1,2-Tetrachloroethane | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0506BLK54 | WATER | LB | 2515690 | 1,1,1,2-Tetrachloroethane | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1,1-Trichloroethane | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1,1-Trichloroethane | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1,2,2-Tetrachloroethane | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1,2,2-Tetrachloroethane | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1,2-Trichloroethane | 5/6/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1,2-Trichloroethane | 5/6/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1-Dichloroethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1-Dichloroethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1-Dichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1-Dichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,1-Dichloropropene | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,1-Dichloropropene | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2,3-Trichlorobenzene | 5/6/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2,3-Trichlorobenzene | 5/6/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2,3-Trichloropropane | 5/6/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2,3-Trichloropropane | 5/6/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2,4-Trichlorobenzene | 5/6/2010 | 0.13 | 0.11 | 1 | J | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2,4-Trichlorobenzene | 5/6/2010 | 0.13 | 0.11 | 1 | J | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2,4-Trimethylbenzene | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2,4-Trimethylbenzene | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2-Dibromo-3-chloropropane | 5/6/2010 | 5 | 1 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2-Dibromo-3-chloropropane | 5/6/2010 | 5 | 1 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2-Dibromoethane | 5/6/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2-Dibromoethane | 5/6/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2-Dichlorobenzene | 5/6/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2-Dichlorobenzene | 5/6/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2-Dichloroethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2-Dichloroethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,2-Dichloropropane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,2-Dichloropropane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,3,5-Trimethylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,3,5-Trimethylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0506BLK54 | WATER | LB | 2515690 | 1,3-Dichlorobenzene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,3-Dichlorobenzene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,3-Dichloropropane | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,3-Dichloropropane | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 1,4-Dichlorobenzene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 1,4-Dichlorobenzene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 2,2-Dichloropropane | 5/6/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 2,2-Dichloropropane | 5/6/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 2-Butanone | 5/6/2010 | 6 | 2 | 6 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 2-Butanone | 5/6/2010 | 6 | 2 | 6 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 2-Chlorotoluene | 5/6/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 2-Chlorotoluene | 5/6/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 2-Hexanone | 5/6/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 2-Hexanone | 5/6/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 4-Chlorotoluene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 4-Chlorotoluene | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | 4-Methyl-2-Pentanone | 5/6/2010 | 5 | 1 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | 4-Methyl-2-Pentanone | 5/6/2010 | 5 | 1 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Acetone | 5/6/2010 | 2.6 | 1.3 | 10 | J | UG/L |
| | 0506BLK54 | | LB | 2515690 | Acetone | 5/6/2010 | 2.6 | 1.3 | 10 | J | UG/L |
| | 0506BLK54 | | LB | 2515690 | Benzene | 5/6/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Benzene | 5/6/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Bromobenzene | 5/6/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Bromobenzene | 5/6/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Bromochloromethane | 5/6/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Bromochloromethane | 5/6/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Bromodichloromethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Bromodichloromethane | 5/6/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Bromoform | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Bromoform | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Bromomethane | 5/6/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Bromomethane | 5/6/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Carbon disulfide | 5/6/2010 | 0.28 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0506BLK54 | WATER | LB | 2515690 | Carbon disulfide | 5/6/2010 | 0.28 | 0.19 | 2 | J | UG/L |
| | 0506BLK54 | | LB | 2515690 | Carbon tetrachloride | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Carbon tetrachloride | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Chlorobenzene | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Chlorobenzene | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Chloroethane | 5/6/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Chloroethane | 5/6/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Chloroform | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Chloroform | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Chloromethane | 5/6/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Chloromethane | 5/6/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | cis-1,2-Dichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | cis-1,2-Dichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | cis-1,3-Dichloropropene | 5/6/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | cis-1,3-Dichloropropene | 5/6/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Dibromochloromethane | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Dibromochloromethane | 5/6/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Dibromomethane | 5/6/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Dibromomethane | 5/6/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Dichlorodifluoromethane | 5/6/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Dichlorodifluoromethane | 5/6/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Ethylbenzene | 5/6/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Ethylbenzene | 5/6/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Hexachlorobutadiene | 5/6/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Hexachlorobutadiene | 5/6/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Isopropylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Isopropylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | m,p-Xylene | 5/6/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | m,p-Xylene | 5/6/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Methyl tert-butyl ether (MTBE) | 5/6/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Methyl tert-butyl ether (MTBE) | 5/6/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Methylene chloride | 5/6/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Methylene chloride | 5/6/2010 | 5 | 0.66 | 5 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0506BLK54 | WATER | LB | 2515691 | Naphthalene | 5/6/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Naphthalene | 5/6/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | n-Butylbenzene | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | n-Butylbenzene | 5/6/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | n-Propylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | n-Propylbenzene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | o-Xylene | 5/6/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | o-Xylene | 5/6/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | p-Isopropyltoluene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | p-Isopropyltoluene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | sec-Butylbenzene | 5/6/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | sec-Butylbenzene | 5/6/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Styrene | 5/6/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Styrene | 5/6/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | tert-Butylbenzene | 5/6/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | tert-Butylbenzene | 5/6/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Tetrachloroethene | 5/6/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Tetrachloroethene | 5/6/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Toluene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Toluene | 5/6/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Trans-1,2-Dichloroethene | 5/6/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Trans-1,2-Dichloroethene | 5/6/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | trans-1,3-Dichloropropene | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | trans-1,3-Dichloropropene | 5/6/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Trichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Trichloroethene | 5/6/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Trichlorofluoromethane | 5/6/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Trichlorofluoromethane | 5/6/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Vinyl Chloride | 5/6/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Vinyl Chloride | 5/6/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0506BLK54 | | LB | 2515691 | Xylenes, Total | 5/6/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0506BLK54 | | LB | 2515690 | Xylenes, Total | 5/6/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1,1,2-Tetrachloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0507BLK54 | WATER | LB | 2515690 | 1,1,1-Trichloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1,2,2-Tetrachloroethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1,2-Trichloroethane | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,1-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2,3-Trichlorobenzene | 5/7/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2,3-Trichloropropane | 5/7/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2,4-Trichlorobenzene | 5/7/2010 | 0.13 | 0.11 | 1 | J | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2,4-Trimethylbenzene | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2-Dibromo-3-chloropropane | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2-Dibromoethane | 5/7/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2-Dichlorobenzene | 5/7/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,2-Dichloropropane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,3,5-Trimethylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,3-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,3-Dichloropropane | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 1,4-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 2,2-Dichloropropane | 5/7/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 2-Butanone | 5/7/2010 | 6 | 2 | 6 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 2-Chlorotoluene | 5/7/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 2-Hexanone | 5/7/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 4-Chlorotoluene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | 4-Methyl-2-Pentanone | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Acetone | 5/7/2010 | 3.1 | 1.3 | 10 | J | UG/L |
| | 0507BLK54 | | LB | 2515690 | Benzene | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Bromobenzene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Bromochloromethane | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Bromodichloromethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Bromoform | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Bromomethane | 5/7/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Carbon disulfide | 5/7/2010 | 0.28 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0507BLK54 | WATER | LB | 2515690 | Carbon tetrachloride | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Chlorobenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Chloroethane | 5/7/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Chloroform | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Chloromethane | 5/7/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | cis-1,2-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | cis-1,3-Dichloropropene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Dibromochloromethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Dibromomethane | 5/7/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Dichlorodifluoromethane | 5/7/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Ethylbenzene | 5/7/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Hexachlorobutadiene | 5/7/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Isopropylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | m,p-Xylene | 5/7/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Methyl tert-butyl ether (MTBE) | 5/7/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Methylene chloride | 5/7/2010 | 0.7 | 0.66 | 5 | J | UG/L |
| | 0507BLK54 | | LB | 2515690 | Naphthalene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | n-Butylbenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | n-Propylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | o-Xylene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | p-Isopropyltoluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | sec-Butylbenzene | 5/7/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Styrene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | tert-Butylbenzene | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Tetrachloroethene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Toluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Trans-1,2-Dichloroethene | 5/7/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | trans-1,3-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Trichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Trichlorofluoromethane | 5/7/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Vinyl Chloride | 5/7/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0507BLK54 | | LB | 2515690 | Xylenes, Total | 5/7/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1,1,2-Tetrachloroethane | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0508BLK52 | WATER | LB | 2515690 | 1,1,1-Trichloroethane | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1,2,2-Tetrachloroethane | 5/8/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1,2-Trichloroethane | 5/8/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1-Dichloroethane | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1-Dichloroethene | 5/8/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,1-Dichloropropene | 5/8/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2,3-Trichlorobenzene | 5/8/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2,3-Trichloropropane | 5/8/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2,4-Trichlorobenzene | 5/8/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2,4-Trimethylbenzene | 5/8/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2-Dibromo-3-chloropropane | 5/8/2010 | 5 | 1 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2-Dibromoethane | 5/8/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2-Dichlorobenzene | 5/8/2010 | 0.083 | 0.077 | 1 | J | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2-Dichloroethane | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,2-Dichloropropane | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,3,5-Trimethylbenzene | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,3-Dichlorobenzene | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,3-Dichloropropane | 5/8/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 1,4-Dichlorobenzene | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 2,2-Dichloropropane | 5/8/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 2-Butanone | 5/8/2010 | 6 | 2 | 6 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 2-Chlorotoluene | 5/8/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 2-Hexanone | 5/8/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 4-Chlorotoluene | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | 4-Methyl-2-Pentanone | 5/8/2010 | 5 | 1 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Acetone | 5/8/2010 | 2.9 | 1.3 | 10 | J | UG/L |
| | 0508BLK52 | | LB | 2515690 | Benzene | 5/8/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Bromobenzene | 5/8/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Bromochloromethane | 5/8/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Bromodichloromethane | 5/8/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Bromoform | 5/8/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Bromomethane | 5/8/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Carbon disulfide | 5/8/2010 | 0.29 | 0.19 | 2 | J | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0508BLK52 | WATER | LB | 2515690 | Carbon tetrachloride | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Chlorobenzene | 5/8/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Chloroethane | 5/8/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Chloroform | 5/8/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Chloromethane | 5/8/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | cis-1,2-Dichloroethene | 5/8/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | cis-1,3-Dichloropropene | 5/8/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Dibromochloromethane | 5/8/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Dibromomethane | 5/8/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Dichlorodifluoromethane | 5/8/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Ethylbenzene | 5/8/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Hexachlorobutadiene | 5/8/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Isopropylbenzene | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | m,p-Xylene | 5/8/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Methyl tert-butyl ether (MTBE) | 5/8/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Methylene chloride | 5/8/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Naphthalene | 5/8/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | n-Butylbenzene | 5/8/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | n-Propylbenzene | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | o-Xylene | 5/8/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | p-Isopropyltoluene | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | sec-Butylbenzene | 5/8/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Styrene | 5/8/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | tert-Butylbenzene | 5/8/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Tetrachloroethene | 5/8/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Toluene | 5/8/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Trans-1,2-Dichloroethene | 5/8/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | trans-1,3-Dichloropropene | 5/8/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Trichloroethene | 5/8/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Trichlorofluoromethane | 5/8/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Vinyl Chloride | 5/8/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0508BLK52 | | LB | 2515690 | Xylenes, Total | 5/8/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1,1,2-Tetrachloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050910BLK32 | WATER | LB | 2515707 | 1,1,1-Trichloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1,2,2-Tetrachloroethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1,2-Trichloroethane | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,1-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2,3-Trichlorobenzene | 5/9/2010 | 0.22 | 0.16 | 1.2 | J | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2,3-Trichloropropane | 5/9/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2,4-Trichlorobenzene | 5/9/2010 | 0.14 | 0.11 | 1 | J | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2,4-Trimethylbenzene | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2-Dibromo-3-chloropropane | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2-Dibromoethane | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2-Dichlorobenzene | 5/9/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,2-Dichloropropane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,3,5-Trimethylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,3-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,3-Dichloropropane | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 1,4-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 2,2-Dichloropropane | 5/9/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 2-Butanone | 5/9/2010 | 6 | 2 | 6 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 2-Chlorotoluene | 5/9/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 2-Hexanone | 5/9/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 4-Chlorotoluene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | 4-Methyl-2-Pentanone | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Acetone | 5/9/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Benzene | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Bromobenzene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Bromochloromethane | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Bromodichloromethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Bromoform | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Bromomethane | 5/9/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Carbon disulfide | 5/9/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050910BLK32 | WATER | LB | 2515707 | Carbon tetrachloride | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Chlorobenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Chloroethane | 5/9/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Chloroform | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Chloromethane | 5/9/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | cis-1,2-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | cis-1,3-Dichloropropene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Dibromochloromethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Dibromomethane | 5/9/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Dichlorodifluoromethane | 5/9/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Ethylbenzene | 5/9/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Hexachlorobutadiene | 5/9/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Isopropylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | m,p-Xylene | 5/9/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Methyl tert-butyl ether (MTBE) | 5/9/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Methylene chloride | 5/9/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Naphthalene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | n-Butylbenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | n-Propylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | o-Xylene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | p-Isopropyltoluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | sec-Butylbenzene | 5/9/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Styrene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | tert-Butylbenzene | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Tetrachloroethene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Toluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Trans-1,2-Dichloroethene | 5/9/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | trans-1,3-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Trichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Trichlorofluoromethane | 5/9/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Vinyl Chloride | 5/9/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 050910BLK32 | | LB | 2515707 | Xylenes, Total | 5/9/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1,1,2-Tetrachloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050910BLK62 | WATER | LB | 2515725 | 1,1,1-Trichloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1,2,2-Tetrachloroethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1,2-Trichloroethane | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,1-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2,3-Trichlorobenzene | 5/9/2010 | 0.2 | 0.16 | 1.2 | J | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2,3-Trichloropropane | 5/9/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2,4-Trichlorobenzene | 5/9/2010 | 0.19 | 0.11 | 1 | J | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2,4-Trimethylbenzene | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2-Dibromo-3-chloropropane | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2-Dibromoethane | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2-Dichlorobenzene | 5/9/2010 | 0.099 | 0.077 | 1 | J | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,2-Dichloropropane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,3,5-Trimethylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,3-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,3-Dichloropropane | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 1,4-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 2,2-Dichloropropane | 5/9/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 2-Butanone | 5/9/2010 | 6 | 2 | 6 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 2-Chlorotoluene | 5/9/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 2-Hexanone | 5/9/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 4-Chlorotoluene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | 4-Methyl-2-Pentanone | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Acetone | 5/9/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Benzene | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Bromobenzene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Bromochloromethane | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Bromodichloromethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Bromoform | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Bromomethane | 5/9/2010 | 0.55 | 0.43 | 2 | J | UG/L |
| | 050910BLK62 | | LB | 2515725 | Carbon disulfide | 5/9/2010 | 2 | 0.19 | 2 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 050910BLK62 | WATER | LB | 2515725 | Carbon tetrachloride | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Chlorobenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Chloroethane | 5/9/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Chloroform | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Chloromethane | 5/9/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | cis-1,2-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | cis-1,3-Dichloropropene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Dibromochloromethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Dibromomethane | 5/9/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Dichlorodifluoromethane | 5/9/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Ethylbenzene | 5/9/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Hexachlorobutadiene | 5/9/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Isopropylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | m,p-Xylene | 5/9/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Methyl tert-butyl ether (MTBE) | 5/9/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Methylene chloride | 5/9/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Naphthalene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | n-Butylbenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | n-Propylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | o-Xylene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | p-Isopropyltoluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | sec-Butylbenzene | 5/9/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Styrene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | tert-Butylbenzene | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Tetrachloroethene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Toluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Trans-1,2-Dichloroethene | 5/9/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | trans-1,3-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Trichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Trichlorofluoromethane | 5/9/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Vinyl Chloride | 5/9/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 050910BLK62 | | LB | 2515725 | Xylenes, Total | 5/9/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1,1,2-Tetrachloroethane | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051010BLK32 | WATER | LB | 2515736 | 1,1,1-Trichloroethane | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1,2,2-Tetrachloroethane | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1,2-Trichloroethane | 5/10/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1-Dichloroethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1-Dichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,1-Dichloropropene | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2,3-Trichlorobenzene | 5/10/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2,3-Trichloropropane | 5/10/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2,4-Trichlorobenzene | 5/10/2010 | 0.16 | 0.11 | 1 | J | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2,4-Trimethylbenzene | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2-Dibromo-3-chloropropane | 5/10/2010 | 5 | 1 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2-Dibromoethane | 5/10/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2-Dichlorobenzene | 5/10/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2-Dichloroethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,2-Dichloropropane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,3,5-Trimethylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,3-Dichlorobenzene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,3-Dichloropropane | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 1,4-Dichlorobenzene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 2,2-Dichloropropane | 5/10/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 2-Butanone | 5/10/2010 | 6 | 2 | 6 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 2-Chlorotoluene | 5/10/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 2-Hexanone | 5/10/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 4-Chlorotoluene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | 4-Methyl-2-Pentanone | 5/10/2010 | 5 | 1 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Acetone | 5/10/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Benzene | 5/10/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Bromobenzene | 5/10/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Bromochloromethane | 5/10/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Bromodichloromethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Bromoform | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Bromomethane | 5/10/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Carbon disulfide | 5/10/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051010BLK32 | WATER | LB | 2515736 | Carbon tetrachloride | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Chlorobenzene | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Chloroethane | 5/10/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Chloroform | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Chloromethane | 5/10/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | cis-1,2-Dichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | cis-1,3-Dichloropropene | 5/10/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Dibromochloromethane | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Dibromomethane | 5/10/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Dichlorodifluoromethane | 5/10/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Ethylbenzene | 5/10/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Hexachlorobutadiene | 5/10/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Isopropylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | m,p-Xylene | 5/10/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Methyl tert-butyl ether (MTBE) | 5/10/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Methylene chloride | 5/10/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Naphthalene | 5/10/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | n-Butylbenzene | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | n-Propylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | o-Xylene | 5/10/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | p-Isopropyltoluene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | sec-Butylbenzene | 5/10/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Styrene | 5/10/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | tert-Butylbenzene | 5/10/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Tetrachloroethene | 5/10/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Toluene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Trans-1,2-Dichloroethene | 5/10/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | trans-1,3-Dichloropropene | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Trichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Trichlorofluoromethane | 5/10/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Vinyl Chloride | 5/10/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 051010BLK32 | | LB | 2515736 | Xylenes, Total | 5/10/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1,1,2-Tetrachloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051210BLK62 | WATER | LB | 2515786 | 1,1,1-Trichloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1,2,2-Tetrachloroethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1,2-Trichloroethane | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,1-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2,3-Trichlorobenzene | 5/12/2010 | 0.26 | 0.16 | 1.2 | J | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2,3-Trichloropropane | 5/12/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2,4-Trichlorobenzene | 5/12/2010 | 0.23 | 0.11 | 1 | J | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2,4-Trimethylbenzene | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2-Dibromo-3-chloropropane | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2-Dibromoethane | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2-Dichlorobenzene | 5/12/2010 | 0.12 | 0.077 | 1 | J | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,2-Dichloropropane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,3,5-Trimethylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,3-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,3-Dichloropropane | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 1,4-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 2,2-Dichloropropane | 5/12/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 2-Butanone | 5/12/2010 | 6 | 2 | 6 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 2-Chlorotoluene | 5/12/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 2-Hexanone | 5/12/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 4-Chlorotoluene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | 4-Methyl-2-Pentanone | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Acetone | 5/12/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Benzene | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Bromobenzene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Bromochloromethane | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Bromodichloromethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Bromoform | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Bromomethane | 5/12/2010 | 0.47 | 0.43 | 2 | J | UG/L |
| | 051210BLK62 | | LB | 2515786 | Carbon disulfide | 5/12/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051210BLK62 | WATER | LB | 2515786 | Carbon tetrachloride | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Chlorobenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Chloroethane | 5/12/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Chloroform | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Chloromethane | 5/12/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | cis-1,2-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | cis-1,3-Dichloropropene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Dibromochloromethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Dibromomethane | 5/12/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Dichlorodifluoromethane | 5/12/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Ethylbenzene | 5/12/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Hexachlorobutadiene | 5/12/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Isopropylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | m,p-Xylene | 5/12/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Methyl tert-butyl ether (MTBE) | 5/12/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Methylene chloride | 5/12/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Naphthalene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | n-Butylbenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | n-Propylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | o-Xylene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | p-Isopropyltoluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | sec-Butylbenzene | 5/12/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Styrene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | tert-Butylbenzene | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Tetrachloroethene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Toluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Trans-1,2-Dichloroethene | 5/12/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | trans-1,3-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Trichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Trichlorofluoromethane | 5/12/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Vinyl Chloride | 5/12/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 051210BLK62 | | LB | 2515786 | Xylenes, Total | 5/12/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1,1,2-Tetrachloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0512BLK52 | WATER | LB | 2515752 | 1,1,1-Trichloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1,2,2-Tetrachloroethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1,2-Trichloroethane | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,1-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2,3-Trichlorobenzene | 5/12/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2,3-Trichloropropane | 5/12/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2,4-Trichlorobenzene | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2,4-Trimethylbenzene | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2-Dibromo-3-chloropropane | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2-Dibromoethane | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2-Dichlorobenzene | 5/12/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,2-Dichloropropane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,3,5-Trimethylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,3-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,3-Dichloropropane | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 1,4-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 2,2-Dichloropropane | 5/12/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 2-Butanone | 5/12/2010 | 6 | 2 | 6 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 2-Chlorotoluene | 5/12/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 2-Hexanone | 5/12/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 4-Chlorotoluene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | 4-Methyl-2-Pentanone | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Acetone | 5/12/2010 | 2.1 | 1.3 | 10 | J | UG/L |
| | 0512BLK52 | | LB | 2515752 | Benzene | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Bromobenzene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Bromochloromethane | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Bromodichloromethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Bromoform | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Bromomethane | 5/12/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Carbon disulfide | 5/12/2010 | 0.27 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0512BLK52 | WATER | LB | 2515752 | Carbon tetrachloride | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Chlorobenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Chloroethane | 5/12/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Chloroform | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Chloromethane | 5/12/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | cis-1,2-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | cis-1,3-Dichloropropene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Dibromochloromethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Dibromomethane | 5/12/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Dichlorodifluoromethane | 5/12/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Ethylbenzene | 5/12/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Hexachlorobutadiene | 5/12/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Isopropylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | m,p-Xylene | 5/12/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Methyl tert-butyl ether (MTBE) | 5/12/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Methylene chloride | 5/12/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Naphthalene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | n-Butylbenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | n-Propylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | o-Xylene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | p-Isopropyltoluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | sec-Butylbenzene | 5/12/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Styrene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | tert-Butylbenzene | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Tetrachloroethene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Toluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Trans-1,2-Dichloroethene | 5/12/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | trans-1,3-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Trichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Trichlorofluoromethane | 5/12/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Vinyl Chloride | 5/12/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0512BLK52 | | LB | 2515752 | Xylenes, Total | 5/12/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1,1,2-Tetrachloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515808 | 1,1,1,2-Tetrachloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1,1,2-Tetrachloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1,1-Trichloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1,1-Trichloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1,1-Trichloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1,2,2-Tetrachloroethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1,2,2-Tetrachloroethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1,2,2-Tetrachloroethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1,2-Trichloroethane | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1,2-Trichloroethane | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1,2-Trichloroethane | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,1-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,1-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,1-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2,3-Trichlorobenzene | 5/13/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2,3-Trichlorobenzene | 5/13/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2,3-Trichlorobenzene | 5/13/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2,3-Trichloropropane | 5/13/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2,3-Trichloropropane | 5/13/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2,3-Trichloropropane | 5/13/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2,4-Trichlorobenzene | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2,4-Trichlorobenzene | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2,4-Trichlorobenzene | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2,4-Trimethylbenzene | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2,4-Trimethylbenzene | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2,4-Trimethylbenzene | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2-Dibromo-3-chloropropane | 5/13/2010 | 5 | 1 | 5 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515786 | 1,2-Dibromo-3-chloropropane | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2-Dibromo-3-chloropropane | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2-Dibromoethane | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2-Dibromoethane | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2-Dibromoethane | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2-Dichlorobenzene | 5/13/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2-Dichlorobenzene | 5/13/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2-Dichlorobenzene | 5/13/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,2-Dichloropropane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,2-Dichloropropane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,2-Dichloropropane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,3,5-Trimethylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,3,5-Trimethylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,3,5-Trimethylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,3-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,3-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,3-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,3-Dichloropropane | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,3-Dichloropropane | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,3-Dichloropropane | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 1,4-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 1,4-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 1,4-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 2,2-Dichloropropane | 5/13/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 2,2-Dichloropropane | 5/13/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 2,2-Dichloropropane | 5/13/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 2-Butanone | 5/13/2010 | 6 | 2 | 6 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 2-Butanone | 5/13/2010 | 6 | 2 | 6 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 2-Butanone | 5/13/2010 | 6 | 2 | 6 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 2-Chlorotoluene | 5/13/2010 | 1 | 0.072 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515808 | 2-Chlorotoluene | 5/13/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 2-Chlorotoluene | 5/13/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 2-Hexanone | 5/13/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 2-Hexanone | 5/13/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 2-Hexanone | 5/13/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 4-Chlorotoluene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 4-Chlorotoluene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 4-Chlorotoluene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | 4-Methyl-2-Pentanone | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | 4-Methyl-2-Pentanone | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | 4-Methyl-2-Pentanone | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Acetone | 5/13/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Acetone | 5/13/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Acetone | 5/13/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Benzene | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Benzene | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Benzene | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Bromobenzene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Bromobenzene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Bromobenzene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Bromochloromethane | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Bromochloromethane | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Bromochloromethane | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Bromodichloromethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Bromodichloromethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Bromodichloromethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Bromoform | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Bromoform | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Bromoform | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Bromomethane | 5/13/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Bromomethane | 5/13/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Bromomethane | 5/13/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Carbon disulfide | 5/13/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515807 | Carbon disulfide | 5/13/2010 | 2 | 0.19 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Carbon disulfide | 5/13/2010 | 2 | 0.19 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Carbon tetrachloride | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Carbon tetrachloride | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Carbon tetrachloride | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Chlorobenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Chlorobenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Chlorobenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Chloroethane | 5/13/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Chloroethane | 5/13/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Chloroethane | 5/13/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Chloroform | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Chloroform | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Chloroform | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Chloromethane | 5/13/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Chloromethane | 5/13/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Chloromethane | 5/13/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | cis-1,2-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | cis-1,2-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | cis-1,2-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | cis-1,3-Dichloropropene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | cis-1,3-Dichloropropene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | cis-1,3-Dichloropropene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Dibromochloromethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Dibromochloromethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Dibromochloromethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Dibromomethane | 5/13/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Dibromomethane | 5/13/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Dibromomethane | 5/13/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Dichlorodifluoromethane | 5/13/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Dichlorodifluoromethane | 5/13/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Dichlorodifluoromethane | 5/13/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Ethylbenzene | 5/13/2010 | 1 | 0.22 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515786 | Ethylbenzene | 5/13/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Ethylbenzene | 5/13/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Hexachlorobutadiene | 5/13/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Hexachlorobutadiene | 5/13/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Hexachlorobutadiene | 5/13/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Isopropylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Isopropylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Isopropylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | m,p-Xylene | 5/13/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | m,p-Xylene | 5/13/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | m,p-Xylene | 5/13/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Methyl tert-butyl ether (MTBE) | 5/13/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Methyl tert-butyl ether (MTBE) | 5/13/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Methyl tert-butyl ether (MTBE) | 5/13/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Methylene chloride | 5/13/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Methylene chloride | 5/13/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Methylene chloride | 5/13/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Naphthalene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Naphthalene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Naphthalene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | n-Butylbenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | n-Butylbenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | n-Butylbenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | n-Propylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | n-Propylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | n-Propylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | o-Xylene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | o-Xylene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | o-Xylene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | p-Isopropyltoluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | p-Isopropyltoluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | p-Isopropyltoluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | sec-Butylbenzene | 5/13/2010 | 1 | 0.1 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 051310BLKA32 | WATER | LB | 2515807 | sec-Butylbenzene | 5/13/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | sec-Butylbenzene | 5/13/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Styrene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Styrene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Styrene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | tert-Butylbenzene | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | tert-Butylbenzene | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | tert-Butylbenzene | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Tetrachloroethene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Tetrachloroethene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Tetrachloroethene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Toluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Toluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Toluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Trans-1,2-Dichloroethene | 5/13/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Trans-1,2-Dichloroethene | 5/13/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Trans-1,2-Dichloroethene | 5/13/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | trans-1,3-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | trans-1,3-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | trans-1,3-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Trichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Trichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Trichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Trichlorofluoromethane | 5/13/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Trichlorofluoromethane | 5/13/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Trichlorofluoromethane | 5/13/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Vinyl Chloride | 5/13/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Vinyl Chloride | 5/13/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Vinyl Chloride | 5/13/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 051310BLKA32 | | LB | 2515808 | Xylenes, Total | 5/13/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 051310BLKA32 | | LB | 2515807 | Xylenes, Total | 5/13/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 051310BLKA32 | | LB | 2515786 | Xylenes, Total | 5/13/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1,1,2-Tetrachloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0619BLK52 | WATER | LB | 2516259 | 1,1,1,2-Tetrachloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1,1-Trichloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1,1-Trichloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1,2,2-Tetrachloroethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1,2,2-Tetrachloroethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1,2-Trichloroethane | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1,2-Trichloroethane | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,1-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,1-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2,3-Trichlorobenzene | 6/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2,3-Trichlorobenzene | 6/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2,3-Trichloropropane | 6/19/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2,3-Trichloropropane | 6/19/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2,4-Trichlorobenzene | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2,4-Trichlorobenzene | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2,4-Trimethylbenzene | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2,4-Trimethylbenzene | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2-Dibromo-3-chloropropane | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2-Dibromo-3-chloropropane | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2-Dibromoethane | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2-Dibromoethane | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2-Dichlorobenzene | 6/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2-Dichlorobenzene | 6/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,2-Dichloropropane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,2-Dichloropropane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,3,5-Trimethylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,3,5-Trimethylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0619BLK52 | WATER | LB | 2516259 | 1,3-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,3-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,3-Dichloropropane | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,3-Dichloropropane | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 1,4-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 1,4-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 2,2-Dichloropropane | 6/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 2,2-Dichloropropane | 6/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 2-Butanone | 6/19/2010 | 6 | 2 | 6 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 2-Butanone | 6/19/2010 | 6 | 2 | 6 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 2-Chlorotoluene | 6/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 2-Chlorotoluene | 6/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 2-Hexanone | 6/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 2-Hexanone | 6/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 4-Chlorotoluene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 4-Chlorotoluene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | 4-Methyl-2-Pentanone | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | 4-Methyl-2-Pentanone | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Acetone | 6/19/2010 | 1.5 | 1.3 | 10 | J | UG/L |
| | 0619BLK52 | | LB | 2516238 | Acetone | 6/19/2010 | 1.5 | 1.3 | 10 | J | UG/L |
| | 0619BLK52 | | LB | 2516259 | Benzene | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Benzene | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Bromobenzene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Bromobenzene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Bromochloromethane | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Bromochloromethane | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Bromodichloromethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Bromodichloromethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Bromoform | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Bromoform | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Bromomethane | 6/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Bromomethane | 6/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Carbon disulfide | 6/19/2010 | 0.35 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0619BLK52 | WATER | LB | 2516238 | Carbon disulfide | 6/19/2010 | 0.35 | 0.19 | 2 | J | UG/L |
| | 0619BLK52 | | LB | 2516238 | Carbon tetrachloride | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Carbon tetrachloride | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Chlorobenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Chlorobenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Chloroethane | 6/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Chloroethane | 6/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Chloroform | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Chloroform | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Chloromethane | 6/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Chloromethane | 6/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | cis-1,2-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | cis-1,2-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | cis-1,3-Dichloropropene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | cis-1,3-Dichloropropene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Dibromochloromethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Dibromochloromethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Dibromomethane | 6/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Dibromomethane | 6/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Dichlorodifluoromethane | 6/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Dichlorodifluoromethane | 6/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Ethylbenzene | 6/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Ethylbenzene | 6/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Hexachlorobutadiene | 6/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Hexachlorobutadiene | 6/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Isopropylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Isopropylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | m,p-Xylene | 6/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | m,p-Xylene | 6/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Methyl tert-butyl ether (MTBE) | 6/19/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Methyl tert-butyl ether (MTBE) | 6/19/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Methylene chloride | 6/19/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Methylene chloride | 6/19/2010 | 5 | 0.66 | 5 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 0619BLK52 | WATER | LB | 2516259 | Naphthalene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Naphthalene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | n-Butylbenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | n-Butylbenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | n-Propylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | n-Propylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | o-Xylene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | o-Xylene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | p-Isopropyltoluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | p-Isopropyltoluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | sec-Butylbenzene | 6/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | sec-Butylbenzene | 6/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Styrene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Styrene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | tert-Butylbenzene | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | tert-Butylbenzene | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Tetrachloroethene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Tetrachloroethene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Toluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Toluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Trans-1,2-Dichloroethene | 6/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Trans-1,2-Dichloroethene | 6/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | trans-1,3-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | trans-1,3-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Trichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Trichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Trichlorofluoromethane | 6/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Trichlorofluoromethane | 6/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Vinyl Chloride | 6/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Vinyl Chloride | 6/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 0619BLK52 | | LB | 2516259 | Xylenes, Total | 6/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 0619BLK52 | | LB | 2516238 | Xylenes, Total | 6/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1,1,2-Tetrachloroethane | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 063010BLKA32 | WATER | LB | 2516299 | 1,1,1-Trichloroethane | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1,2,2-Tetrachloroethane | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1,2-Trichloroethane | 6/30/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1-Dichloroethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1-Dichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,1-Dichloropropene | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2,3-Trichlorobenzene | 6/30/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2,3-Trichloropropane | 6/30/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2,4-Trichlorobenzene | 6/30/2010 | 0.16 | 0.11 | 1 | J | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2,4-Trimethylbenzene | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2-Dibromo-3-chloropropane | 6/30/2010 | 5 | 1 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2-Dibromoethane | 6/30/2010 | 1 | 0.11 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2-Dichlorobenzene | 6/30/2010 | 1 | 0.077 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2-Dichloroethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,2-Dichloropropane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,3,5-Trimethylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,3-Dichlorobenzene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,3-Dichloropropane | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 1,4-Dichlorobenzene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 2,2-Dichloropropane | 6/30/2010 | 5 | 0.17 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 2-Butanone | 6/30/2010 | 6 | 2 | 6 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 2-Chlorotoluene | 6/30/2010 | 1 | 0.072 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 2-Hexanone | 6/30/2010 | 5 | 0.48 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 4-Chlorotoluene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | 4-Methyl-2-Pentanone | 6/30/2010 | 5 | 1 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Acetone | 6/30/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Benzene | 6/30/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Bromobenzene | 6/30/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Bromochloromethane | 6/30/2010 | 1 | 0.17 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Bromodichloromethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Bromoform | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Bromomethane | 6/30/2010 | 2 | 0.43 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Carbon disulfide | 6/30/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | 063010BLKA32 | WATER | LB | 2516299 | Carbon tetrachloride | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Chlorobenzene | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Chloroethane | 6/30/2010 | 2 | 0.72 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Chloroform | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Chloromethane | 6/30/2010 | 2 | 0.32 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | cis-1,2-Dichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | cis-1,3-Dichloropropene | 6/30/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Dibromochloromethane | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Dibromomethane | 6/30/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Dichlorodifluoromethane | 6/30/2010 | 2 | 0.17 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Ethylbenzene | 6/30/2010 | 1 | 0.22 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Hexachlorobutadiene | 6/30/2010 | 1 | 0.36 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Isopropylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | m,p-Xylene | 6/30/2010 | 2 | 0.23 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Methyl tert-butyl ether (MTBE) | 6/30/2010 | 5 | 0.5 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Methylene chloride | 6/30/2010 | 5 | 0.66 | 5 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Naphthalene | 6/30/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | n-Butylbenzene | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | n-Propylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | o-Xylene | 6/30/2010 | 1 | 0.5 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | p-Isopropyltoluene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | sec-Butylbenzene | 6/30/2010 | 1 | 0.1 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Styrene | 6/30/2010 | 1 | 0.12 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | tert-Butylbenzene | 6/30/2010 | 1 | 0.2 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Tetrachloroethene | 6/30/2010 | 1 | 0.21 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Toluene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Trans-1,2-Dichloroethene | 6/30/2010 | 1 | 0.33 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | trans-1,3-Dichloropropene | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Trichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Trichlorofluoromethane | 6/30/2010 | 2 | 0.12 | 2 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Vinyl Chloride | 6/30/2010 | 1 | 0.18 | 1 | U | UG/L |
| | 063010BLKA32 | | LB | 2516299 | Xylenes, Total | 6/30/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-EB-10618-21042010 | WATER | EB | 2515619 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2,3-Trichlorobenzene | 5/4/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2,4-Trichlorobenzene | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2,4-Trimethylbenzene | 5/4/2010 | 0.6 | 0.13 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,3,5-Trimethylbenzene | 5/4/2010 | 0.18 | 0.14 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Acetone | 5/4/2010 | 2.5 | 1.3 | 10 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzene | 5/4/2010 | 0.36 | 0.17 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Carbon disulfide | 5/4/2010 | 0.22 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-EB-10618-21042010 | WATER | EB | 2515619 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chloroform | 5/4/2010 | 3.1 | 0.16 | 1 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Ethylbenzene | 5/4/2010 | 0.84 | 0.22 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Isopropylbenzene | 5/4/2010 | 0.18 | 0.14 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | m,p-Xylene | 5/4/2010 | 2.4 | 0.23 | 2 | | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Methylene chloride | 5/4/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | n-Propylbenzene | 5/4/2010 | 0.18 | 0.14 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | o-Xylene | 5/4/2010 | 0.74 | 0.5 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Toluene | 5/4/2010 | 0.32 | 0.14 | 1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Xylenes, Total | 5/4/2010 | 3.1 | 0.5 | 3 | | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1,1,2-Tetrachloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-GW-TB-05-03052010 | WATER | TB | 2515752 | 1,1,1-Trichloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1,2,2-Tetrachloroethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1,2-Trichloroethane | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,1-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2,3-Trichlorobenzene | 5/12/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2,3-Trichloropropane | 5/12/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2,4-Trichlorobenzene | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2,4-Trimethylbenzene | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2-Dibromo-3-chloropropane | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2-Dibromoethane | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2-Dichlorobenzene | 5/12/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,2-Dichloropropane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,3,5-Trimethylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,3-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,3-Dichloropropane | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 1,4-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 2,2-Dichloropropane | 5/12/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 2-Butanone | 5/12/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 2-Chlorotoluene | 5/12/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 2-Hexanone | 5/12/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 4-Chlorotoluene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | 4-Methyl-2-Pentanone | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Acetone | 5/12/2010 | 1.8 | 1.3 | 10 | J | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Benzene | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Bromobenzene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Bromochloromethane | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Bromodichloromethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Bromoform | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Bromomethane | 5/12/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Carbon disulfide | 5/12/2010 | 0.29 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-GW-TB-05-03052010 | WATER | TB | 2515752 | Carbon tetrachloride | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Chlorobenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Chloroethane | 5/12/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Chloroform | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Chloromethane | 5/12/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | cis-1,2-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | cis-1,3-Dichloropropene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Dibromochloromethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Dibromomethane | 5/12/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Dichlorodifluoromethane | 5/12/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Ethylbenzene | 5/12/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Hexachlorobutadiene | 5/12/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Isopropylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | m,p-Xylene | 5/12/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Methyl tert-butyl ether (MTBE) | 5/12/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Methylene chloride | 5/12/2010 | 0.88 | 0.66 | 5 | J | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Naphthalene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | n-Butylbenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | n-Propylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | o-Xylene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | p-Isopropyltoluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | sec-Butylbenzene | 5/12/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Styrene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | tert-Butylbenzene | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Tetrachloroethene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Toluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Trans-1,2-Dichloroethene | 5/12/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | trans-1,3-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Trichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Trichlorofluoromethane | 5/12/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Vinyl Chloride | 5/12/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-GW-TB-05-03052010 | | TB | 2515752 | Xylenes, Total | 5/12/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1,1,2-Tetrachloroethane | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-13042010 | WATER | TB | 2515546 | 1,1,1-Trichloroethane | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1,2,2-Tetrachloroethane | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1,2-Trichloroethane | 4/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1-Dichloroethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1-Dichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,1-Dichloropropene | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2,3-Trichlorobenzene | 4/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2,3-Trichloropropane | 4/19/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2,4-Trichlorobenzene | 4/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2,4-Trimethylbenzene | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2-Dibromo-3-chloropropane | 4/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2-Dibromoethane | 4/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2-Dichlorobenzene | 4/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2-Dichloroethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,2-Dichloropropane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,3,5-Trimethylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,3-Dichlorobenzene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,3-Dichloropropane | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 1,4-Dichlorobenzene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 2,2-Dichloropropane | 4/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 2-Butanone | 4/19/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 2-Chlorotoluene | 4/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 2-Hexanone | 4/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 4-Chlorotoluene | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | 4-Methyl-2-Pentanone | 4/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Acetone | 4/19/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Benzene | 4/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Bromobenzene | 4/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Bromochloromethane | 4/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Bromodichloromethane | 4/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Bromoform | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Bromomethane | 4/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Carbon disulfide | 4/19/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-13042010 | WATER | TB | 2515546 | Carbon tetrachloride | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Chlorobenzene | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Chloroethane | 4/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Chloroform | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Chloromethane | 4/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | cis-1,2-Dichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | cis-1,3-Dichloropropene | 4/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Dibromochloromethane | 4/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Dibromomethane | 4/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Dichlorodifluoromethane | 4/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Ethylbenzene | 4/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Hexachlorobutadiene | 4/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Isopropylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | m,p-Xylene | 4/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Methyl tert-butyl ether (MTBE) | 4/19/2010 | 5 | 0.16 | 5 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Methylene chloride | 4/19/2010 | 1.7 | 0.66 | 5 | J | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Naphthalene | 4/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | n-Butylbenzene | 4/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | n-Propylbenzene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | o-Xylene | 4/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | p-Isopropyltoluene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | sec-Butylbenzene | 4/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Styrene | 4/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | tert-Butylbenzene | 4/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Tetrachloroethene | 4/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Toluene | 4/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Trans-1,2-Dichloroethene | 4/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | trans-1,3-Dichloropropene | 4/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Trichloroethene | 4/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Trichlorofluoromethane | 4/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Vinyl Chloride | 4/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-01-13042010 | | TB | 2515546 | Xylenes, Total | 4/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1,1,2-Tetrachloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-14062010 | WATER | TB | 2516238 | 1,1,1-Trichloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1,2,2-Tetrachloroethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1,2-Trichloroethane | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,1-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2,3-Trichlorobenzene | 6/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2,3-Trichloropropane | 6/19/2010 | 1.5 | 0.35 | 1.5 | R | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2,4-Trichlorobenzene | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2,4-Trimethylbenzene | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2-Dibromo-3-chloropropane | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2-Dibromoethane | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2-Dichlorobenzene | 6/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,2-Dichloropropane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,3,5-Trimethylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,3-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,3-Dichloropropane | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 1,4-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 2,2-Dichloropropane | 6/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 2-Butanone | 6/19/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 2-Chlorotoluene | 6/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 2-Hexanone | 6/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 4-Chlorotoluene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | 4-Methyl-2-Pentanone | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Acetone | 6/19/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Benzene | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Bromobenzene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Bromochloromethane | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Bromodichloromethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Bromoform | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Bromomethane | 6/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Carbon disulfide | 6/19/2010 | 0.4 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-14062010 | WATER | TB | 2516238 | Carbon tetrachloride | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Chlorobenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Chloroethane | 6/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Chloroform | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Chloromethane | 6/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | cis-1,2-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | cis-1,3-Dichloropropene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Dibromochloromethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Dibromomethane | 6/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Dichlorodifluoromethane | 6/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Ethylbenzene | 6/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Hexachlorobutadiene | 6/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Isopropylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | m,p-Xylene | 6/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Methyl tert-butyl ether (MTBE) | 6/19/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Methylene chloride | 6/19/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Naphthalene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | n-Butylbenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | n-Propylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | o-Xylene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | p-Isopropyltoluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | sec-Butylbenzene | 6/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Styrene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | tert-Butylbenzene | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Tetrachloroethene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Toluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Trans-1,2-Dichloroethene | 6/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | trans-1,3-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Trichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Trichlorofluoromethane | 6/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Vinyl Chloride | 6/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-01-14062010 | | TB | 2516238 | Xylenes, Total | 6/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1,1,2-Tetrachloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-19042010 | WATER | TB | 2515592 | 1,1,1-Trichloroethane | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1,2,2-Tetrachloroethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1,2-Trichloroethane | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,1-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2,3-Trichlorobenzene | 4/27/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2,3-Trichloropropane | 4/27/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2,4-Trichlorobenzene | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2,4-Trimethylbenzene | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2-Dibromo-3-chloropropane | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2-Dibromoethane | 4/27/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2-Dichlorobenzene | 4/27/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2-Dichloroethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,2-Dichloropropane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,3,5-Trimethylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,3-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,3-Dichloropropane | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 1,4-Dichlorobenzene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 2,2-Dichloropropane | 4/27/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 2-Butanone | 4/27/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 2-Chlorotoluene | 4/27/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 2-Hexanone | 4/27/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 4-Chlorotoluene | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | 4-Methyl-2-Pentanone | 4/27/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Acetone | 4/27/2010 | 2.4 | 1.3 | 10 | J | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Benzene | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Bromobenzene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Bromochloromethane | 4/27/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Bromodichloromethane | 4/27/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Bromoform | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Bromomethane | 4/27/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Carbon disulfide | 4/27/2010 | 0.39 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-19042010 | WATER | TB | 2515592 | Carbon tetrachloride | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Chlorobenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Chloroethane | 4/27/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Chloroform | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Chloromethane | 4/27/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | cis-1,2-Dichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | cis-1,3-Dichloropropene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Dibromochloromethane | 4/27/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Dibromomethane | 4/27/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Dichlorodifluoromethane | 4/27/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Ethylbenzene | 4/27/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Hexachlorobutadiene | 4/27/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Isopropylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | m,p-Xylene | 4/27/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Methyl tert-butyl ether (MTBE) | 4/27/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Methylene chloride | 4/27/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Naphthalene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | n-Butylbenzene | 4/27/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | n-Propylbenzene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | o-Xylene | 4/27/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | p-Isopropyltoluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | sec-Butylbenzene | 4/27/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Styrene | 4/27/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | tert-Butylbenzene | 4/27/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Tetrachloroethene | 4/27/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Toluene | 4/27/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Trans-1,2-Dichloroethene | 4/27/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | trans-1,3-Dichloropropene | 4/27/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Trichloroethene | 4/27/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Trichlorofluoromethane | 4/27/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Vinyl Chloride | 4/27/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-01-19042010 | | TB | 2515592 | Xylenes, Total | 4/27/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1,1,2-Tetrachloroethane | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-26042010 | WATER | TB | 2515679 | 1,1,1-Trichloroethane | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1,2,2-Tetrachloroethane | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1,2-Trichloroethane | 5/5/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1-Dichloroethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1-Dichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,1-Dichloropropene | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2,3-Trichlorobenzene | 5/5/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2,3-Trichloropropane | 5/5/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2,4-Trichlorobenzene | 5/5/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2,4-Trimethylbenzene | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2-Dibromo-3-chloropropane | 5/5/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2-Dibromoethane | 5/5/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2-Dichlorobenzene | 5/5/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2-Dichloroethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,2-Dichloropropane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,3,5-Trimethylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,3-Dichlorobenzene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,3-Dichloropropane | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 1,4-Dichlorobenzene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 2,2-Dichloropropane | 5/5/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 2-Butanone | 5/5/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 2-Chlorotoluene | 5/5/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 2-Hexanone | 5/5/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 4-Chlorotoluene | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | 4-Methyl-2-Pentanone | 5/5/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Acetone | 5/5/2010 | 3.9 | 1.3 | 10 | J | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Benzene | 5/5/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Bromobenzene | 5/5/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Bromochloromethane | 5/5/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Bromodichloromethane | 5/5/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Bromoform | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Bromomethane | 5/5/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Carbon disulfide | 5/5/2010 | 0.27 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-01-26042010 | WATER | TB | 2515679 | Carbon tetrachloride | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Chlorobenzene | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Chloroethane | 5/5/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Chloroform | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Chloromethane | 5/5/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | cis-1,2-Dichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | cis-1,3-Dichloropropene | 5/5/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Dibromochloromethane | 5/5/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Dibromomethane | 5/5/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Dichlorodifluoromethane | 5/5/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Ethylbenzene | 5/5/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Hexachlorobutadiene | 5/5/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Isopropylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | m,p-Xylene | 5/5/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Methyl tert-butyl ether (MTBE) | 5/5/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Methylene chloride | 5/5/2010 | 0.84 | 0.66 | 5 | J | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Naphthalene | 5/5/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | n-Butylbenzene | 5/5/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | n-Propylbenzene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | o-Xylene | 5/5/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | p-Isopropyltoluene | 5/5/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | sec-Butylbenzene | 5/5/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Styrene | 5/5/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | tert-Butylbenzene | 5/5/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Tetrachloroethene | 5/5/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Toluene | 5/5/2010 | 0.23 | 0.14 | 1 | J | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Trans-1,2-Dichloroethene | 5/5/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | trans-1,3-Dichloropropene | 5/5/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Trichloroethene | 5/5/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Trichlorofluoromethane | 5/5/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Vinyl Chloride | 5/5/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-01-26042010 | | TB | 2515679 | Xylenes, Total | 5/5/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1,1,2-Tetrachloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-16062010 | WATER | TB | 2516259 | 1,1,1-Trichloroethane | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1,2,2-Tetrachloroethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1,2-Trichloroethane | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,1-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2,3-Trichlorobenzene | 6/19/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2,3-Trichloropropane | 6/19/2010 | 1.5 | 0.35 | 1.5 | R | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2,4-Trichlorobenzene | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2,4-Trimethylbenzene | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2-Dibromo-3-chloropropane | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2-Dibromoethane | 6/19/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2-Dichlorobenzene | 6/19/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2-Dichloroethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,2-Dichloropropane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,3,5-Trimethylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,3-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,3-Dichloropropane | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 1,4-Dichlorobenzene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 2,2-Dichloropropane | 6/19/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 2-Butanone | 6/19/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 2-Chlorotoluene | 6/19/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 2-Hexanone | 6/19/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 4-Chlorotoluene | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | 4-Methyl-2-Pentanone | 6/19/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Acetone | 6/19/2010 | 1.5 | 1.3 | 10 | J | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Benzene | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Bromobenzene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Bromochloromethane | 6/19/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Bromodichloromethane | 6/19/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Bromoform | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Bromomethane | 6/19/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Carbon disulfide | 6/19/2010 | 0.51 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-16062010 | WATER | TB | 2516259 | Carbon tetrachloride | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Chlorobenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Chloroethane | 6/19/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Chloroform | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Chloromethane | 6/19/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | cis-1,2-Dichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | cis-1,3-Dichloropropene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Dibromochloromethane | 6/19/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Dibromomethane | 6/19/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Dichlorodifluoromethane | 6/19/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Ethylbenzene | 6/19/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Hexachlorobutadiene | 6/19/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Isopropylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | m,p-Xylene | 6/19/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Methyl tert-butyl ether (MTBE) | 6/19/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Methylene chloride | 6/19/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Naphthalene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | n-Butylbenzene | 6/19/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | n-Propylbenzene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | o-Xylene | 6/19/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | p-Isopropyltoluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | sec-Butylbenzene | 6/19/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Styrene | 6/19/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | tert-Butylbenzene | 6/19/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Tetrachloroethene | 6/19/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Toluene | 6/19/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Trans-1,2-Dichloroethene | 6/19/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | trans-1,3-Dichloropropene | 6/19/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Trichloroethene | 6/19/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Trichlorofluoromethane | 6/19/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Vinyl Chloride | 6/19/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-02-16062010 | | TB | 2516259 | Xylenes, Total | 6/19/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1,1,2-Tetrachloroethane | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-20042010 | WATER | TB | 2515603 | 1,1,1-Trichloroethane | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1,2,2-Tetrachloroethane | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1,2-Trichloroethane | 4/29/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1-Dichloroethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1-Dichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,1-Dichloropropene | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2,3-Trichlorobenzene | 4/29/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2,3-Trichloropropane | 4/29/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2,4-Trichlorobenzene | 4/29/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2,4-Trimethylbenzene | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2-Dibromo-3-chloropropane | 4/29/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2-Dibromoethane | 4/29/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2-Dichlorobenzene | 4/29/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2-Dichloroethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,2-Dichloropropane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,3,5-Trimethylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,3-Dichlorobenzene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,3-Dichloropropane | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 1,4-Dichlorobenzene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 2,2-Dichloropropane | 4/29/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 2-Butanone | 4/29/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 2-Chlorotoluene | 4/29/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 2-Hexanone | 4/29/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 4-Chlorotoluene | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | 4-Methyl-2-Pentanone | 4/29/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Acetone | 4/29/2010 | 2 | 1.3 | 10 | J | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Benzene | 4/29/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Bromobenzene | 4/29/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Bromochloromethane | 4/29/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Bromodichloromethane | 4/29/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Bromoform | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Bromomethane | 4/29/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Carbon disulfide | 4/29/2010 | 0.34 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-20042010 | WATER | TB | 2515603 | Carbon tetrachloride | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Chlorobenzene | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Chloroethane | 4/29/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Chloroform | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Chloromethane | 4/29/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | cis-1,2-Dichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | cis-1,3-Dichloropropene | 4/29/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Dibromochloromethane | 4/29/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Dibromomethane | 4/29/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Dichlorodifluoromethane | 4/29/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Ethylbenzene | 4/29/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Hexachlorobutadiene | 4/29/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Isopropylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | m,p-Xylene | 4/29/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Methyl tert-butyl ether (MTBE) | 4/29/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Methylene chloride | 4/29/2010 | 1.5 | 0.66 | 5 | J | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Naphthalene | 4/29/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | n-Butylbenzene | 4/29/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | n-Propylbenzene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | o-Xylene | 4/29/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | p-Isopropyltoluene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | sec-Butylbenzene | 4/29/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Styrene | 4/29/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | tert-Butylbenzene | 4/29/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Tetrachloroethene | 4/29/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Toluene | 4/29/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Trans-1,2-Dichloroethene | 4/29/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | trans-1,3-Dichloropropene | 4/29/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Trichloroethene | 4/29/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Trichlorofluoromethane | 4/29/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Vinyl Chloride | 4/29/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-02-20042010 | | TB | 2515603 | Xylenes, Total | 4/29/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1,1,2-Tetrachloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-27042010 | WATER | TB | 2515690 | 1,1,1-Trichloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1,2,2-Tetrachloroethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1,2-Trichloroethane | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,1-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2,3-Trichlorobenzene | 5/7/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2,3-Trichloropropane | 5/7/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2,4-Trichlorobenzene | 5/7/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2,4-Trimethylbenzene | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2-Dibromo-3-chloropropane | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2-Dibromoethane | 5/7/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2-Dichlorobenzene | 5/7/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,2-Dichloropropane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,3,5-Trimethylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,3-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,3-Dichloropropane | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 1,4-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 2,2-Dichloropropane | 5/7/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 2-Butanone | 5/7/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 2-Chlorotoluene | 5/7/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 2-Hexanone | 5/7/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 4-Chlorotoluene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | 4-Methyl-2-Pentanone | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Acetone | 5/7/2010 | 2.3 | 1.3 | 10 | J | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Benzene | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Bromobenzene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Bromochloromethane | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Bromodichloromethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Bromoform | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Bromomethane | 5/7/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Carbon disulfide | 5/7/2010 | 0.26 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-02-27042010 | WATER | TB | 2515690 | Carbon tetrachloride | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Chlorobenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Chloroethane | 5/7/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Chloroform | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Chloromethane | 5/7/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | cis-1,2-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | cis-1,3-Dichloropropene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Dibromochloromethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Dibromomethane | 5/7/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Dichlorodifluoromethane | 5/7/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Ethylbenzene | 5/7/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Hexachlorobutadiene | 5/7/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Isopropylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | m,p-Xylene | 5/7/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Methyl tert-butyl ether (MTBE) | 5/7/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Methylene chloride | 5/7/2010 | 1 | 0.66 | 5 | J | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Naphthalene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | n-Butylbenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | n-Propylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | o-Xylene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | p-Isopropyltoluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | sec-Butylbenzene | 5/7/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Styrene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | tert-Butylbenzene | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Tetrachloroethene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Toluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Trans-1,2-Dichloroethene | 5/7/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | trans-1,3-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Trichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Trichlorofluoromethane | 5/7/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Vinyl Chloride | 5/7/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-02-27042010 | | TB | 2515690 | Xylenes, Total | 5/7/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1,1,2-Tetrachloroethane | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-03-21062010 | WATER | TB | 2516299 | 1,1,1-Trichloroethane | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1,2,2-Tetrachloroethane | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1,2-Trichloroethane | 6/30/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1-Dichloroethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1-Dichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,1-Dichloropropene | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2,3-Trichlorobenzene | 6/30/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2,3-Trichloropropane | 6/30/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2,4-Trichlorobenzene | 6/30/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2,4-Trimethylbenzene | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2-Dibromo-3-chloropropane | 6/30/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2-Dibromoethane | 6/30/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2-Dichlorobenzene | 6/30/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2-Dichloroethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,2-Dichloropropane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,3,5-Trimethylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,3-Dichlorobenzene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,3-Dichloropropane | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 1,4-Dichlorobenzene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 2,2-Dichloropropane | 6/30/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 2-Butanone | 6/30/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 2-Chlorotoluene | 6/30/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 2-Hexanone | 6/30/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 4-Chlorotoluene | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | 4-Methyl-2-Pentanone | 6/30/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Acetone | 6/30/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Benzene | 6/30/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Bromobenzene | 6/30/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Bromochloromethane | 6/30/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Bromodichloromethane | 6/30/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Bromoform | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Bromomethane | 6/30/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Carbon disulfide | 6/30/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-03-21062010 | WATER | TB | 2516299 | Carbon tetrachloride | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Chlorobenzene | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Chloroethane | 6/30/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Chloroform | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Chloromethane | 6/30/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | cis-1,2-Dichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | cis-1,3-Dichloropropene | 6/30/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Dibromochloromethane | 6/30/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Dibromomethane | 6/30/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Dichlorodifluoromethane | 6/30/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Ethylbenzene | 6/30/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Hexachlorobutadiene | 6/30/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Isopropylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | m,p-Xylene | 6/30/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Methyl tert-butyl ether (MTBE) | 6/30/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Methylene chloride | 6/30/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Naphthalene | 6/30/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | n-Butylbenzene | 6/30/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | n-Propylbenzene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | o-Xylene | 6/30/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | p-Isopropyltoluene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | sec-Butylbenzene | 6/30/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Styrene | 6/30/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | tert-Butylbenzene | 6/30/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Tetrachloroethene | 6/30/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Toluene | 6/30/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Trans-1,2-Dichloroethene | 6/30/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | trans-1,3-Dichloropropene | 6/30/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Trichloroethene | 6/30/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Trichlorofluoromethane | 6/30/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Vinyl Chloride | 6/30/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-03-21062010 | | TB | 2516299 | Xylenes, Total | 6/30/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-03-22042010 | WATER | TB | 2515638 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2,3-Trichlorobenzene | 5/4/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2,4-Trichlorobenzene | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2,4-Trimethylbenzene | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,3,5-Trimethylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Acetone | 5/4/2010 | 1.6 | 1.3 | 10 | J | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Benzene | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Carbon disulfide | 5/4/2010 | 0.32 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-03-22042010 | WATER | TB | 2515638 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Chloroform | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Ethylbenzene | 5/4/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Isopropylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | m,p-Xylene | 5/4/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Methylene chloride | 5/4/2010 | 1.1 | 0.66 | 5 | J | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | n-Propylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | o-Xylene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Toluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-03-22042010 | | TB | 2515638 | Xylenes, Total | 5/4/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1,1,2-Tetrachloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-28042010 | WATER | TB | 2515707 | 1,1,1-Trichloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1,2,2-Tetrachloroethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1,2-Trichloroethane | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1-Dichloroethene | 5/9/2010 | 0.94 | 0.19 | 1 | J | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,1-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2,3-Trichlorobenzene | 5/9/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2,3-Trichloropropane | 5/9/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2,4-Trichlorobenzene | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2,4-Trimethylbenzene | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2-Dibromo-3-chloropropane | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2-Dibromoethane | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2-Dichlorobenzene | 5/9/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,2-Dichloropropane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,3,5-Trimethylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,3-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,3-Dichloropropane | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 1,4-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 2,2-Dichloropropane | 5/9/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 2-Butanone | 5/9/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 2-Chlorotoluene | 5/9/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 2-Hexanone | 5/9/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 4-Chlorotoluene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | 4-Methyl-2-Pentanone | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Acetone | 5/9/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Benzene | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Bromobenzene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Bromochloromethane | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Bromodichloromethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Bromoform | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Bromomethane | 5/9/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Carbon disulfide | 5/9/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-28042010 | WATER | TB | 2515707 | Carbon tetrachloride | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Chlorobenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Chloroethane | 5/9/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Chloroform | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Chloromethane | 5/9/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | cis-1,2-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | cis-1,3-Dichloropropene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Dibromochloromethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Dibromomethane | 5/9/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Dichlorodifluoromethane | 5/9/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Ethylbenzene | 5/9/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Hexachlorobutadiene | 5/9/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Isopropylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | m,p-Xylene | 5/9/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Methyl tert-butyl ether (MTBE) | 5/9/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Methylene chloride | 5/9/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Naphthalene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | n-Butylbenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | n-Propylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | o-Xylene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | p-Isopropyltoluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | sec-Butylbenzene | 5/9/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Styrene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | tert-Butylbenzene | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Tetrachloroethene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Toluene | 5/9/2010 | 0.16 | 0.14 | 1 | J | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Trans-1,2-Dichloroethene | 5/9/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | trans-1,3-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Trichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Trichlorofluoromethane | 5/9/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Vinyl Chloride | 5/9/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-04-28042010 | | TB | 2515707 | Xylenes, Total | 5/9/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1,1,2-Tetrachloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-29042010 | WATER | TB | 2515725 | 1,1,1-Trichloroethane | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1,2,2-Tetrachloroethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1,2-Trichloroethane | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,1-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2,3-Trichlorobenzene | 5/9/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2,3-Trichloropropane | 5/9/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2,4-Trichlorobenzene | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2,4-Trimethylbenzene | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2-Dibromo-3-chloropropane | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2-Dibromoethane | 5/9/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2-Dichlorobenzene | 5/9/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2-Dichloroethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,2-Dichloropropane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,3,5-Trimethylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,3-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,3-Dichloropropane | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 1,4-Dichlorobenzene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 2,2-Dichloropropane | 5/9/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 2-Butanone | 5/9/2010 | 2.1 | 2 | 6 | J | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 2-Chlorotoluene | 5/9/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 2-Hexanone | 5/9/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 4-Chlorotoluene | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | 4-Methyl-2-Pentanone | 5/9/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Acetone | 5/9/2010 | 1.7 | 1.3 | 10 | J | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Benzene | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Bromobenzene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Bromochloromethane | 5/9/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Bromodichloromethane | 5/9/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Bromoform | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Bromomethane | 5/9/2010 | 0.47 | 0.43 | 2 | J | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Carbon disulfide | 5/9/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-29042010 | WATER | TB | 2515725 | Carbon tetrachloride | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Chlorobenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Chloroethane | 5/9/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Chloroform | 5/9/2010 | 1.9 | 0.16 | 1 | | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Chloromethane | 5/9/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | cis-1,2-Dichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | cis-1,3-Dichloropropene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Dibromochloromethane | 5/9/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Dibromomethane | 5/9/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Dichlorodifluoromethane | 5/9/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Ethylbenzene | 5/9/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Hexachlorobutadiene | 5/9/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Isopropylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | m,p-Xylene | 5/9/2010 | 0.52 | 0.23 | 2 | J | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Methyl tert-butyl ether (MTBE) | 5/9/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Methylene chloride | 5/9/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Naphthalene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | n-Butylbenzene | 5/9/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | n-Propylbenzene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | o-Xylene | 5/9/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | p-Isopropyltoluene | 5/9/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | sec-Butylbenzene | 5/9/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Styrene | 5/9/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | tert-Butylbenzene | 5/9/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Tetrachloroethene | 5/9/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Toluene | 5/9/2010 | 0.42 | 0.14 | 1 | J | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Trans-1,2-Dichloroethene | 5/9/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | trans-1,3-Dichloropropene | 5/9/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Trichloroethene | 5/9/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Trichlorofluoromethane | 5/9/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Vinyl Chloride | 5/9/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-04-29042010 | | TB | 2515725 | Xylenes, Total | 5/9/2010 | 0.73 | 0.5 | 3 | J | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1,1,2-Tetrachloroethane | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-30042010 | WATER | TB | 2515736 | 1,1,1-Trichloroethane | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1,2,2-Tetrachloroethane | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1,2-Trichloroethane | 5/10/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1-Dichloroethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1-Dichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,1-Dichloropropene | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2,3-Trichlorobenzene | 5/10/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2,3-Trichloropropane | 5/10/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2,4-Trichlorobenzene | 5/10/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2,4-Trimethylbenzene | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2-Dibromo-3-chloropropane | 5/10/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2-Dibromoethane | 5/10/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2-Dichlorobenzene | 5/10/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2-Dichloroethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,2-Dichloropropane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,3,5-Trimethylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,3-Dichlorobenzene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,3-Dichloropropane | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 1,4-Dichlorobenzene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 2,2-Dichloropropane | 5/10/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 2-Butanone | 5/10/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 2-Chlorotoluene | 5/10/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 2-Hexanone | 5/10/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 4-Chlorotoluene | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | 4-Methyl-2-Pentanone | 5/10/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Acetone | 5/10/2010 | 4.1 | 1.3 | 10 | J | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Benzene | 5/10/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Bromobenzene | 5/10/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Bromochloromethane | 5/10/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Bromodichloromethane | 5/10/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Bromoform | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Bromomethane | 5/10/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Carbon disulfide | 5/10/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-04-30042010 | WATER | TB | 2515736 | Carbon tetrachloride | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Chlorobenzene | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Chloroethane | 5/10/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Chloroform | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Chloromethane | 5/10/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | cis-1,2-Dichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | cis-1,3-Dichloropropene | 5/10/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Dibromochloromethane | 5/10/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Dibromomethane | 5/10/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Dichlorodifluoromethane | 5/10/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Ethylbenzene | 5/10/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Hexachlorobutadiene | 5/10/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Isopropylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | m,p-Xylene | 5/10/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Methyl tert-butyl ether (MTBE) | 5/10/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Methylene chloride | 5/10/2010 | 0.88 | 0.66 | 5 | J | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Naphthalene | 5/10/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | n-Butylbenzene | 5/10/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | n-Propylbenzene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | o-Xylene | 5/10/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | p-Isopropyltoluene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | sec-Butylbenzene | 5/10/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Styrene | 5/10/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | tert-Butylbenzene | 5/10/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Tetrachloroethene | 5/10/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Toluene | 5/10/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Trans-1,2-Dichloroethene | 5/10/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | trans-1,3-Dichloropropene | 5/10/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Trichloroethene | 5/10/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Trichlorofluoromethane | 5/10/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Vinyl Chloride | 5/10/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-04-30042010 | | TB | 2515736 | Xylenes, Total | 5/10/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1,1,2-Tetrachloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-05052010 | WATER | TB | 2515786 | 1,1,1-Trichloroethane | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1,2,2-Tetrachloroethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1,2-Trichloroethane | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,1-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2,3-Trichlorobenzene | 5/12/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2,3-Trichloropropane | 5/12/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2,4-Trichlorobenzene | 5/12/2010 | 0.15 | 0.11 | 1 | J | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2,4-Trimethylbenzene | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2-Dibromo-3-chloropropane | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2-Dibromoethane | 5/12/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2-Dichlorobenzene | 5/12/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2-Dichloroethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,2-Dichloropropane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,3,5-Trimethylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,3-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,3-Dichloropropane | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 1,4-Dichlorobenzene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 2,2-Dichloropropane | 5/12/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 2-Butanone | 5/12/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 2-Chlorotoluene | 5/12/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 2-Hexanone | 5/12/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 4-Chlorotoluene | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | 4-Methyl-2-Pentanone | 5/12/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Acetone | 5/12/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Benzene | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Bromobenzene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Bromochloromethane | 5/12/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Bromodichloromethane | 5/12/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Bromoform | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Bromomethane | 5/12/2010 | 0.63 | 0.43 | 2 | J | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Carbon disulfide | 5/12/2010 | 0.53 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-05052010 | WATER | TB | 2515786 | Carbon tetrachloride | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Chlorobenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Chloroethane | 5/12/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Chloroform | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Chloromethane | 5/12/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | cis-1,2-Dichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | cis-1,3-Dichloropropene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Dibromochloromethane | 5/12/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Dibromomethane | 5/12/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Dichlorodifluoromethane | 5/12/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Ethylbenzene | 5/12/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Hexachlorobutadiene | 5/12/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Isopropylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | m,p-Xylene | 5/12/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Methyl tert-butyl ether (MTBE) | 5/12/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Methylene chloride | 5/12/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Naphthalene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | n-Butylbenzene | 5/12/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | n-Propylbenzene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | o-Xylene | 5/12/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | p-Isopropyltoluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | sec-Butylbenzene | 5/12/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Styrene | 5/12/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | tert-Butylbenzene | 5/12/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Tetrachloroethene | 5/12/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Toluene | 5/12/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Trans-1,2-Dichloroethene | 5/12/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | trans-1,3-Dichloropropene | 5/12/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Trichloroethene | 5/12/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Trichlorofluoromethane | 5/12/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Vinyl Chloride | 5/12/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-05052010 | | TB | 2515786 | Xylenes, Total | 5/12/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1,1,2-Tetrachloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-06-06052010 | WATER | TB | 2515808 | 1,1,1-Trichloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1,2,2-Tetrachloroethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1,2-Trichloroethane | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,1-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2,3-Trichlorobenzene | 5/13/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2,3-Trichloropropane | 5/13/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2,4-Trichlorobenzene | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2,4-Trimethylbenzene | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2-Dibromo-3-chloropropane | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2-Dibromoethane | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2-Dichlorobenzene | 5/13/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,2-Dichloropropane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,3,5-Trimethylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,3-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,3-Dichloropropane | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 1,4-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 2,2-Dichloropropane | 5/13/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 2-Butanone | 5/13/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 2-Chlorotoluene | 5/13/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 2-Hexanone | 5/13/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 4-Chlorotoluene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | 4-Methyl-2-Pentanone | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Acetone | 5/13/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Benzene | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Bromobenzene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Bromochloromethane | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Bromodichloromethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Bromoform | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Bromomethane | 5/13/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Carbon disulfide | 5/13/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-06-06052010 | WATER | TB | 2515808 | Carbon tetrachloride | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Chlorobenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Chloroethane | 5/13/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Chloroform | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Chloromethane | 5/13/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | cis-1,2-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | cis-1,3-Dichloropropene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Dibromochloromethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Dibromomethane | 5/13/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Dichlorodifluoromethane | 5/13/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Ethylbenzene | 5/13/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Hexachlorobutadiene | 5/13/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Isopropylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | m,p-Xylene | 5/13/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Methyl tert-butyl ether (MTBE) | 5/13/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Methylene chloride | 5/13/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Naphthalene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | n-Butylbenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | n-Propylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | o-Xylene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | p-Isopropyltoluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | sec-Butylbenzene | 5/13/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Styrene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | tert-Butylbenzene | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Tetrachloroethene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Toluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Trans-1,2-Dichloroethene | 5/13/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | trans-1,3-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Trichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Trichlorofluoromethane | 5/13/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Vinyl Chloride | 5/13/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-06-06052010 | | TB | 2515808 | Xylenes, Total | 5/13/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1,1,2-Tetrachloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-07-06052010 | WATER | TB | 2515807 | 1,1,1-Trichloroethane | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1,2,2-Tetrachloroethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1,2-Trichloroethane | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,1-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2,3-Trichlorobenzene | 5/13/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2,3-Trichloropropane | 5/13/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2,4-Trichlorobenzene | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2,4-Trimethylbenzene | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2-Dibromo-3-chloropropane | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2-Dibromoethane | 5/13/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2-Dichlorobenzene | 5/13/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2-Dichloroethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,2-Dichloropropane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,3,5-Trimethylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,3-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,3-Dichloropropane | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 1,4-Dichlorobenzene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 2,2-Dichloropropane | 5/13/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 2-Butanone | 5/13/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 2-Chlorotoluene | 5/13/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 2-Hexanone | 5/13/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 4-Chlorotoluene | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | 4-Methyl-2-Pentanone | 5/13/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Acetone | 5/13/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Benzene | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Bromobenzene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Bromochloromethane | 5/13/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Bromodichloromethane | 5/13/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Bromoform | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Bromomethane | 5/13/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Carbon disulfide | 5/13/2010 | 2 | 0.19 | 2 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-07-06052010 | WATER | TB | 2515807 | Carbon tetrachloride | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Chlorobenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Chloroethane | 5/13/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Chloroform | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Chloromethane | 5/13/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | cis-1,2-Dichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | cis-1,3-Dichloropropene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Dibromochloromethane | 5/13/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Dibromomethane | 5/13/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Dichlorodifluoromethane | 5/13/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Ethylbenzene | 5/13/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Hexachlorobutadiene | 5/13/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Isopropylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | m,p-Xylene | 5/13/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Methyl tert-butyl ether (MTBE) | 5/13/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Methylene chloride | 5/13/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Naphthalene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | n-Butylbenzene | 5/13/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | n-Propylbenzene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | o-Xylene | 5/13/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | p-Isopropyltoluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | sec-Butylbenzene | 5/13/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Styrene | 5/13/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | tert-Butylbenzene | 5/13/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Tetrachloroethene | 5/13/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Toluene | 5/13/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Trans-1,2-Dichloroethene | 5/13/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | trans-1,3-Dichloropropene | 5/13/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Trichloroethene | 5/13/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Trichlorofluoromethane | 5/13/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Vinyl Chloride | 5/13/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-07-06052010 | | TB | 2515807 | Xylenes, Total | 5/13/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1,1,2-Tetrachloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-21042010 | WATER | TB | 2515619 | 1,1,1-Trichloroethane | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1,2,2-Tetrachloroethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1,2-Trichloroethane | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,1-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2,3-Trichlorobenzene | 5/4/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2,3-Trichloropropane | 5/4/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2,4-Trichlorobenzene | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2,4-Trimethylbenzene | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2-Dibromo-3-chloropropane | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2-Dibromoethane | 5/4/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2-Dichlorobenzene | 5/4/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2-Dichloroethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,2-Dichloropropane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,3,5-Trimethylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,3-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,3-Dichloropropane | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 1,4-Dichlorobenzene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 2,2-Dichloropropane | 5/4/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 2-Butanone | 5/4/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 2-Chlorotoluene | 5/4/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 2-Hexanone | 5/4/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 4-Chlorotoluene | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | 4-Methyl-2-Pentanone | 5/4/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Acetone | 5/4/2010 | 2.1 | 1.3 | 10 | J | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Benzene | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Bromobenzene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Bromochloromethane | 5/4/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Bromodichloromethane | 5/4/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Bromoform | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Bromomethane | 5/4/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Carbon disulfide | 5/4/2010 | 0.32 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-21042010 | WATER | TB | 2515619 | Carbon tetrachloride | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Chlorobenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Chloroethane | 5/4/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Chloroform | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Chloromethane | 5/4/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | cis-1,2-Dichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | cis-1,3-Dichloropropene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Dibromochloromethane | 5/4/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Dibromomethane | 5/4/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Dichlorodifluoromethane | 5/4/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Ethylbenzene | 5/4/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Hexachlorobutadiene | 5/4/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Isopropylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | m,p-Xylene | 5/4/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Methyl tert-butyl ether (MTBE) | 5/4/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Methylene chloride | 5/4/2010 | 1.4 | 0.66 | 5 | J | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Naphthalene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | n-Butylbenzene | 5/4/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | n-Propylbenzene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | o-Xylene | 5/4/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | p-Isopropyltoluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | sec-Butylbenzene | 5/4/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Styrene | 5/4/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | tert-Butylbenzene | 5/4/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Tetrachloroethene | 5/4/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Toluene | 5/4/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Trans-1,2-Dichloroethene | 5/4/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | trans-1,3-Dichloropropene | 5/4/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Trichloroethene | 5/4/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Trichlorofluoromethane | 5/4/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Vinyl Chloride | 5/4/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-21042010 | | TB | 2515619 | Xylenes, Total | 5/4/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1,1,2-Tetrachloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-27042010 | WATER | TB | 2515691 | 1,1,1-Trichloroethane | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1,2,2-Tetrachloroethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1,2-Trichloroethane | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,1-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2,3-Trichlorobenzene | 5/7/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2,3-Trichloropropane | 5/7/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2,4-Trichlorobenzene | 5/7/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2,4-Trimethylbenzene | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2-Dibromo-3-chloropropane | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2-Dibromoethane | 5/7/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2-Dichlorobenzene | 5/7/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2-Dichloroethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,2-Dichloropropane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,3,5-Trimethylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,3-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,3-Dichloropropane | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 1,4-Dichlorobenzene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 2,2-Dichloropropane | 5/7/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 2-Butanone | 5/7/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 2-Chlorotoluene | 5/7/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 2-Hexanone | 5/7/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 4-Chlorotoluene | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | 4-Methyl-2-Pentanone | 5/7/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Acetone | 5/7/2010 | 2.2 | 1.3 | 10 | J | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Benzene | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Bromobenzene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Bromochloromethane | 5/7/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Bromodichloromethane | 5/7/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Bromoform | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Bromomethane | 5/7/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Carbon disulfide | 5/7/2010 | 0.31 | 0.19 | 2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-27042010 | WATER | TB | 2515691 | Carbon tetrachloride | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Chlorobenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Chloroethane | 5/7/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Chloroform | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Chloromethane | 5/7/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | cis-1,2-Dichloroethene | 5/7/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | cis-1,3-Dichloropropene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Dibromochloromethane | 5/7/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Dibromomethane | 5/7/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Dichlorodifluoromethane | 5/7/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Ethylbenzene | 5/7/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Hexachlorobutadiene | 5/7/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Isopropylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | m,p-Xylene | 5/7/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Methyl tert-butyl ether (MTBE) | 5/7/2010 | 5 | 0.5 | 5 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Methylene chloride | 5/7/2010 | 2 | 0.66 | 5 | J | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Naphthalene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | n-Butylbenzene | 5/7/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | n-Propylbenzene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | o-Xylene | 5/7/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | p-Isopropyltoluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | sec-Butylbenzene | 5/7/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Styrene | 5/7/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | tert-Butylbenzene | 5/7/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Tetrachloroethene | 5/7/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Toluene | 5/7/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Trans-1,2-Dichloroethene | 5/7/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | trans-1,3-Dichloropropene | 5/7/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Trichloroethene | 5/7/2010 | 0.25 | 0.19 | 1 | J | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Trichlorofluoromethane | 5/7/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Vinyl Chloride | 5/7/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-27042010 | | TB | 2515691 | Xylenes, Total | 5/7/2010 | 3 | 0.5 | 3 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1,1,2-Tetrachloroethane | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-TO96-3-16042010 | WATER | TB | 2515580 | 1,1,1-Trichloroethane | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1,2,2-Tetrachloroethane | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1,2-Trichloroethane | 4/21/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1-Dichloroethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1-Dichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,1-Dichloropropene | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2,3-Trichlorobenzene | 4/21/2010 | 1.2 | 0.16 | 1.2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2,3-Trichloropropane | 4/21/2010 | 1.5 | 0.35 | 1.5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2,4-Trichlorobenzene | 4/21/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2,4-Trimethylbenzene | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2-Dibromo-3-chloropropane | 4/21/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2-Dibromoethane | 4/21/2010 | 1 | 0.11 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2-Dichlorobenzene | 4/21/2010 | 1 | 0.077 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2-Dichloroethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,2-Dichloropropane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,3,5-Trimethylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,3-Dichlorobenzene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,3-Dichloropropane | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 1,4-Dichlorobenzene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 2,2-Dichloropropane | 4/21/2010 | 5 | 0.17 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 2-Butanone | 4/21/2010 | 6 | 2 | 6 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 2-Chlorotoluene | 4/21/2010 | 1 | 0.072 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 2-Hexanone | 4/21/2010 | 5 | 0.48 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 4-Chlorotoluene | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | 4-Methyl-2-Pentanone | 4/21/2010 | 5 | 1 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Acetone | 4/21/2010 | 10 | 1.3 | 10 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Benzene | 4/21/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Bromobenzene | 4/21/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Bromochloromethane | 4/21/2010 | 1 | 0.17 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Bromodichloromethane | 4/21/2010 | 1 | 0.15 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Bromoform | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Bromomethane | 4/21/2010 | 2 | 0.43 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Carbon disulfide | 4/21/2010 | 2 | 0.19 | 2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | | | |
| | ST106-TB-TO96-3-16042010 | WATER | TB | 2515580 | Carbon tetrachloride | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Chlorobenzene | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Chloroethane | 4/21/2010 | 2 | 0.72 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Chloroform | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Chloromethane | 4/21/2010 | 2 | 0.32 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | cis-1,2-Dichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | cis-1,3-Dichloropropene | 4/21/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Dibromochloromethane | 4/21/2010 | 1 | 0.13 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Dibromomethane | 4/21/2010 | 1.1 | 0.11 | 1.1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Dichlorodifluoromethane | 4/21/2010 | 2 | 0.17 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Ethylbenzene | 4/21/2010 | 1 | 0.22 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Hexachlorobutadiene | 4/21/2010 | 1 | 0.36 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Isopropylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | m,p-Xylene | 4/21/2010 | 2 | 0.23 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Methyl tert-butyl ether (MTBE) | 4/21/2010 | 5 | 0.16 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Methylene chloride | 4/21/2010 | 5 | 0.66 | 5 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Naphthalene | 4/21/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | n-Butylbenzene | 4/21/2010 | 1 | 0.16 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | n-Propylbenzene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | o-Xylene | 4/21/2010 | 1 | 0.5 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | p-Isopropyltoluene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | sec-Butylbenzene | 4/21/2010 | 1 | 0.1 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Styrene | 4/21/2010 | 1 | 0.12 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | tert-Butylbenzene | 4/21/2010 | 1 | 0.2 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Tetrachloroethene | 4/21/2010 | 1 | 0.21 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Toluene | 4/21/2010 | 1 | 0.14 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Trans-1,2-Dichloroethene | 4/21/2010 | 1 | 0.33 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | trans-1,3-Dichloropropene | 4/21/2010 | 1 | 0.3 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Trichloroethene | 4/21/2010 | 1 | 0.19 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Trichlorofluoromethane | 4/21/2010 | 2 | 0.12 | 2 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Vinyl Chloride | 4/21/2010 | 1 | 0.18 | 1 | U | UG/L |
| | ST106-TB-TO96-3-16042010 | | TB | 2515580 | Xylenes, Total | 4/21/2010 | 3 | 0.5 | 3 | U | UG/L |
| **SW8270C** | | | | | | | | | | | |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7894BLK | WATER | LB | 2515580 | 1,2-Dichlorobenzene | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 1,2-Diphenylhydrazine | 4/19/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 1,3-Dinitrobenzene | 4/19/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4,5-Trichlorophenol | 4/19/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4,6-Trichlorophenol | 4/19/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4-Dichlorophenol | 4/19/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4-Dimethylphenol | 4/19/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4-Dinitrophenol | 4/19/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,4-Dinitrotoluene | 4/19/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2,6-Dinitrotoluene | 4/19/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Chloronaphthalene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Chlorophenol | 4/19/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Methylnaphthalene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Methylphenol | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Nitroaniline | 4/19/2010 | 50 | 3 | 50 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 2-Nitrophenol | 4/19/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 3,3'-Dichlorobenzidine | 4/19/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 3-Nitroaniline | 4/19/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4,6-Dinitro-2-methylphenol | 4/19/2010 | 60 | 4 | 60 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Bromophenyl phenyl ether | 4/19/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Chloro-3-methylphenol | 4/19/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Chloroaniline | 4/19/2010 | 20 | 3 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Chlorophenyl phenyl ether | 4/19/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Methylphenol | 4/19/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Nitroaniline | 4/19/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | 4-Nitrophenol | 4/19/2010 | 50 | 4 | 50 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Acenaphthene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Acenaphthylene | 4/19/2010 | 10 | 3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Anthracene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzidine | 4/19/2010 | 150 | 20 | 150 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzo (a) pyrene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzo (b) fluoranthene | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzo (g,h,i) perylene | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7894BLK | WATER | LB | 2515580 | Benzo(a)anthracene | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzo(k)fluoranthene | 4/19/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Benzoic acid | 4/19/2010 | 60 | 14 | 60 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Bis (2-chloroethoxy) methane | 4/19/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Bis (2-chloroethyl) ether | 4/19/2010 | 10 | 3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Bis (2-ethylhexyl) phthalate | 4/19/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Butyl benzylphthalate | 4/19/2010 | 20 | 3 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Chrysene | 4/19/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Dibenzo (a,h) anthracene | 4/19/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Dibenzofuran | 4/19/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Diethyl phthalate | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Dimethyl phthalate | 4/19/2010 | 10 | 3 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Di-n-butylphthalate | 4/19/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Di-n-octylphthalate | 4/19/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Fluoranthene | 4/19/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Fluorene | 4/19/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Hexachlorobenzene | 4/19/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Hexachlorobutadiene | 4/19/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Hexachlorocyclopentadiene | 4/19/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Hexachloroethane | 4/19/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Indeno(1,2,3-cd)pyrene | 4/19/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Naphthalene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Nitrobenzene | 4/19/2010 | 20 | 1 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | n-Nitrosodi-n-propylamine | 4/19/2010 | 20 | 3 | 20 | U | UG/L |
| | 7894BLK | | LB | 2515580 | n-Nitrosodiphenylamine | 4/19/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Pentachlorophenol | 4/19/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Phenanthrene | 4/19/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Phenol | 4/19/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7894BLK | | LB | 2515580 | Pyrene | 4/19/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 1,2-Dichlorobenzene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 1,2-Dichlorobenzene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 1,2-Diphenylhydrazine | 4/22/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 1,2-Diphenylhydrazine | 4/22/2010 | 10 | 3.1 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7909BLK | WATER | LB | 2515592 | 1,3-Dinitrobenzene | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 1,3-Dinitrobenzene | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4,5-Trichlorophenol | 4/22/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4,5-Trichlorophenol | 4/22/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4,6-Trichlorophenol | 4/22/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4,6-Trichlorophenol | 4/22/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4-Dichlorophenol | 4/22/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4-Dichlorophenol | 4/22/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4-Dimethylphenol | 4/22/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4-Dimethylphenol | 4/22/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4-Dinitrophenol | 4/22/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4-Dinitrophenol | 4/22/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,4-Dinitrotoluene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,4-Dinitrotoluene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2,6-Dinitrotoluene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2,6-Dinitrotoluene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Chloronaphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Chloronaphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Chlorophenol | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Chlorophenol | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Methylnaphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Methylnaphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Methylphenol | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Methylphenol | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Nitroaniline | 4/22/2010 | 50 | 3 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Nitroaniline | 4/22/2010 | 50 | 3 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 2-Nitrophenol | 4/22/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 2-Nitrophenol | 4/22/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 3,3'-Dichlorobenzidine | 4/22/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 3,3'-Dichlorobenzidine | 4/22/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 3-Nitroaniline | 4/22/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 3-Nitroaniline | 4/22/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4,6-Dinitro-2-methylphenol | 4/22/2010 | 60 | 4 | 60 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7909BLK | WATER | LB | 2515603 | 4,6-Dinitro-2-methylphenol | 4/22/2010 | 60 | 4 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Bromophenyl phenyl ether | 4/22/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Bromophenyl phenyl ether | 4/22/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Chloro-3-methylphenol | 4/22/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Chloro-3-methylphenol | 4/22/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Chloroaniline | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Chloroaniline | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Chlorophenyl phenyl ether | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Chlorophenyl phenyl ether | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Methylphenol | 4/22/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Methylphenol | 4/22/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Nitroaniline | 4/22/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Nitroaniline | 4/22/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | 4-Nitrophenol | 4/22/2010 | 50 | 4 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515603 | 4-Nitrophenol | 4/22/2010 | 50 | 4 | 50 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Acenaphthene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Acenaphthene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Acenaphthylene | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Acenaphthylene | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Anthracene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Anthracene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzidine | 4/22/2010 | 150 | 20 | 150 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzidine | 4/22/2010 | 150 | 20 | 150 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzo (a) pyrene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzo (a) pyrene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzo (b) fluoranthene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzo (b) fluoranthene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzo (g,h,i) perylene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzo (g,h,i) perylene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzo(a)anthracene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzo(a)anthracene | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Benzo(k)fluoranthene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzo(k)fluoranthene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7909BLK | WATER | LB | 2515592 | Benzoic acid | 4/22/2010 | 60 | 14 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Benzoic acid | 4/22/2010 | 60 | 14 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Bis (2-chloroethoxy) methane | 4/22/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Bis (2-chloroethoxy) methane | 4/22/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Bis (2-chloroethyl) ether | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Bis (2-chloroethyl) ether | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Bis (2-ethylhexyl) phthalate | 4/22/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Bis (2-ethylhexyl) phthalate | 4/22/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Butyl benzylphthalate | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Butyl benzylphthalate | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Chrysene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Chrysene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Dibenzo (a,h) anthracene | 4/22/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Dibenzo (a,h) anthracene | 4/22/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Dibenzofuran | 4/22/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Dibenzofuran | 4/22/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Diethyl phthalate | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Diethyl phthalate | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Dimethyl phthalate | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Dimethyl phthalate | 4/22/2010 | 10 | 3 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Di-n-butylphthalate | 4/22/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Di-n-butylphthalate | 4/22/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Di-n-octylphthalate | 4/22/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Di-n-octylphthalate | 4/22/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Fluoranthene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Fluoranthene | 4/22/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Fluorene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Fluorene | 4/22/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Hexachlorobenzene | 4/22/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Hexachlorobenzene | 4/22/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Hexachlorobutadiene | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Hexachlorobutadiene | 4/22/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Hexachlorocyclopentadiene | 4/22/2010 | 10 | 0.82 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7909BLK | WATER | LB | 2515603 | Hexachlorocyclopentadiene | 4/22/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Hexachloroethane | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Hexachloroethane | 4/22/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Indeno(1,2,3-cd)pyrene | 4/22/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Indeno(1,2,3-cd)pyrene | 4/22/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Naphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Naphthalene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Nitrobenzene | 4/22/2010 | 20 | 1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Nitrobenzene | 4/22/2010 | 20 | 1 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | n-Nitrosodi-n-propylamine | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515603 | n-Nitrosodi-n-propylamine | 4/22/2010 | 20 | 3 | 20 | U | UG/L |
| | 7909BLK | | LB | 2515592 | n-Nitrosodiphenylamine | 4/22/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | n-Nitrosodiphenylamine | 4/22/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Pentachlorophenol | 4/22/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Pentachlorophenol | 4/22/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Phenanthrene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Phenanthrene | 4/22/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Phenol | 4/22/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Phenol | 4/22/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515592 | Pyrene | 4/22/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7909BLK | | LB | 2515603 | Pyrene | 4/22/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 1,2-Dichlorobenzene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 1,2-Dichlorobenzene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 1,2-Diphenylhydrazine | 4/26/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 1,2-Diphenylhydrazine | 4/26/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 1,3-Dinitrobenzene | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 1,3-Dinitrobenzene | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,4,5-Trichlorophenol | 4/26/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4,5-Trichlorophenol | 4/26/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,4,6-Trichlorophenol | 4/26/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4,6-Trichlorophenol | 4/26/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,4-Dichlorophenol | 4/26/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4-Dichlorophenol | 4/26/2010 | 10 | 3.1 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7929BLK | WATER | LB | 2515619 | 2,4-Dimethylphenol | 4/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4-Dimethylphenol | 4/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4-Dinitrophenol | 4/26/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,4-Dinitrophenol | 4/26/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,4-Dinitrotoluene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,4-Dinitrotoluene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2,6-Dinitrotoluene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2,6-Dinitrotoluene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Chloronaphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Chloronaphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Chlorophenol | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Chlorophenol | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Methylnaphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Methylnaphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Methylphenol | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Methylphenol | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Nitroaniline | 4/26/2010 | 50 | 3 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Nitroaniline | 4/26/2010 | 50 | 3 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 2-Nitrophenol | 4/26/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 2-Nitrophenol | 4/26/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 3,3'-Dichlorobenzidine | 4/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 3,3'-Dichlorobenzidine | 4/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 3-Nitroaniline | 4/26/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 3-Nitroaniline | 4/26/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4,6-Dinitro-2-methylphenol | 4/26/2010 | 60 | 4 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4,6-Dinitro-2-methylphenol | 4/26/2010 | 60 | 4 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Bromophenyl phenyl ether | 4/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Bromophenyl phenyl ether | 4/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Chloro-3-methylphenol | 4/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Chloro-3-methylphenol | 4/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Chloroaniline | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Chloroaniline | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Chlorophenyl phenyl ether | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7929BLK | WATER | LB | 2515638 | 4-Chlorophenyl phenyl ether | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Methylphenol | 4/26/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Methylphenol | 4/26/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Nitroaniline | 4/26/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Nitroaniline | 4/26/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | 4-Nitrophenol | 4/26/2010 | 50 | 4 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515638 | 4-Nitrophenol | 4/26/2010 | 50 | 4 | 50 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Acenaphthene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Acenaphthene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Acenaphthylene | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Acenaphthylene | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Anthracene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Anthracene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzidine | 4/26/2010 | 150 | 20 | 150 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzidine | 4/26/2010 | 150 | 20 | 150 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzo (a) pyrene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzo (a) pyrene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzo (b) fluoranthene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzo (b) fluoranthene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzo (g,h,i) perylene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzo (g,h,i) perylene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzo(a)anthracene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzo(a)anthracene | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzo(k)fluoranthene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzo(k)fluoranthene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Benzoic acid | 4/26/2010 | 60 | 14 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Benzoic acid | 4/26/2010 | 60 | 14 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Bis (2-chloroethoxy) methane | 4/26/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Bis (2-chloroethoxy) methane | 4/26/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Bis (2-chloroethyl) ether | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Bis (2-chloroethyl) ether | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Bis (2-ethylhexyl) phthalate | 4/26/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Bis (2-ethylhexyl) phthalate | 4/26/2010 | 10 | 4.4 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7929BLK | WATER | LB | 2515619 | Butyl benzylphthalate | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Butyl benzylphthalate | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Chrysene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Chrysene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Dibenzo (a,h) anthracene | 4/26/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Dibenzo (a,h) anthracene | 4/26/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Dibenzofuran | 4/26/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Dibenzofuran | 4/26/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Diethyl phthalate | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Diethyl phthalate | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Dimethyl phthalate | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Dimethyl phthalate | 4/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Di-n-butylphthalate | 4/26/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Di-n-butylphthalate | 4/26/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Di-n-octylphthalate | 4/26/2010 | 3.6 | 1.1 | 20 | J | UG/L |
| | 7929BLK | | LB | 2515638 | Di-n-octylphthalate | 4/26/2010 | 3.6 | 1.1 | 20 | J | UG/L |
| | 7929BLK | | LB | 2515638 | Fluoranthene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Fluoranthene | 4/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Fluorene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Fluorene | 4/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Hexachlorobenzene | 4/26/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Hexachlorobenzene | 4/26/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Hexachlorobutadiene | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Hexachlorobutadiene | 4/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Hexachlorocyclopentadiene | 4/26/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Hexachlorocyclopentadiene | 4/26/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Hexachloroethane | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Hexachloroethane | 4/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Indeno(1,2,3-cd)pyrene | 4/26/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Indeno(1,2,3-cd)pyrene | 4/26/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Naphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Naphthalene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Nitrobenzene | 4/26/2010 | 20 | 1 | 20 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7929BLK | WATER | LB | 2515619 | Nitrobenzene | 4/26/2010 | 20 | 1 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515638 | n-Nitrosodi-n-propylamine | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | n-Nitrosodi-n-propylamine | 4/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 7929BLK | | LB | 2515619 | n-Nitrosodiphenylamine | 4/26/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | n-Nitrosodiphenylamine | 4/26/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Pentachlorophenol | 4/26/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Pentachlorophenol | 4/26/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Phenanthrene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Phenanthrene | 4/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Phenol | 4/26/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Phenol | 4/26/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515619 | Pyrene | 4/26/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7929BLK | | LB | 2515638 | Pyrene | 4/26/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 1,2-Dichlorobenzene | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 1,2-Diphenylhydrazine | 4/28/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 1,3-Dinitrobenzene | 4/28/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4,5-Trichlorophenol | 4/28/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4,6-Trichlorophenol | 4/28/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4-Dichlorophenol | 4/28/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4-Dimethylphenol | 4/28/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4-Dinitrophenol | 4/28/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,4-Dinitrotoluene | 4/28/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2,6-Dinitrotoluene | 4/28/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Chloronaphthalene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Chlorophenol | 4/28/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Methylnaphthalene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Methylphenol | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Nitroaniline | 4/28/2010 | 50 | 3 | 50 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 2-Nitrophenol | 4/28/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 3,3'-Dichlorobenzidine | 4/28/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 3-Nitroaniline | 4/28/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4,6-Dinitro-2-methylphenol | 4/28/2010 | 60 | 4 | 60 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Bromophenyl phenyl ether | 4/28/2010 | 10 | 2.3 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7945BLK | WATER | LB | 2515679 | 4-Chloro-3-methylphenol | 4/28/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Chloroaniline | 4/28/2010 | 20 | 3 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Chlorophenyl phenyl ether | 4/28/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Methylphenol | 4/28/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Nitroaniline | 4/28/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | 4-Nitrophenol | 4/28/2010 | 50 | 4 | 50 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Acenaphthene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Acenaphthylene | 4/28/2010 | 10 | 3 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Anthracene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzidine | 4/28/2010 | 150 | 20 | 150 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzo (a) pyrene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzo (b) fluoranthene | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzo (g,h,i) perylene | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzo(a)anthracene | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzo(k)fluoranthene | 4/28/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Benzoic acid | 4/28/2010 | 60 | 14 | 60 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Bis (2-chloroethoxy) methane | 4/28/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Bis (2-chloroethyl) ether | 4/28/2010 | 10 | 3 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Bis (2-ethylhexyl) phthalate | 4/28/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Butyl benzylphthalate | 4/28/2010 | 20 | 3 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Chrysene | 4/28/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Dibenzo (a,h) anthracene | 4/28/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Dibenzofuran | 4/28/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Diethyl phthalate | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Dimethyl phthalate | 4/28/2010 | 10 | 3 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Di-n-butylphthalate | 4/28/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Di-n-octylphthalate | 4/28/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Fluoranthene | 4/28/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Fluorene | 4/28/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Hexachlorobenzene | 4/28/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Hexachlorobutadiene | 4/28/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Hexachlorocyclopentadiene | 4/28/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Hexachloroethane | 4/28/2010 | 10 | 2.6 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7945BLK | WATER | LB | 2515679 | Indeno(1,2,3-cd)pyrene | 4/28/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Naphthalene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Nitrobenzene | 4/28/2010 | 20 | 1 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | n-Nitrosodi-n-propylamine | 4/28/2010 | 20 | 3 | 20 | U | UG/L |
| | 7945BLK | | LB | 2515679 | n-Nitrosodiphenylamine | 4/28/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Pentachlorophenol | 4/28/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Phenanthrene | 4/28/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Phenol | 4/28/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7945BLK | | LB | 2515679 | Pyrene | 4/28/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 1,2-Dichlorobenzene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 1,2-Dichlorobenzene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 1,2-Diphenylhydrazine | 4/29/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 1,2-Diphenylhydrazine | 4/29/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 1,3-Dinitrobenzene | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 1,3-Dinitrobenzene | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4,5-Trichlorophenol | 4/29/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4,5-Trichlorophenol | 4/29/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4,6-Trichlorophenol | 4/29/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4,6-Trichlorophenol | 4/29/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4-Dichlorophenol | 4/29/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4-Dichlorophenol | 4/29/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4-Dimethylphenol | 4/29/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4-Dimethylphenol | 4/29/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4-Dinitrophenol | 4/29/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4-Dinitrophenol | 4/29/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,4-Dinitrotoluene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,4-Dinitrotoluene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2,6-Dinitrotoluene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2,6-Dinitrotoluene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2-Chloronaphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Chloronaphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2-Chlorophenol | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Chlorophenol | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7949BLK | WATER | LB | 2515690 | 2-Methylnaphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Methylnaphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2-Methylphenol | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Methylphenol | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2-Nitroaniline | 4/29/2010 | 50 | 3 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Nitroaniline | 4/29/2010 | 50 | 3 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 2-Nitrophenol | 4/29/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 2-Nitrophenol | 4/29/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 3,3'-Dichlorobenzidine | 4/29/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 3,3'-Dichlorobenzidine | 4/29/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 3-Nitroaniline | 4/29/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 3-Nitroaniline | 4/29/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4,6-Dinitro-2-methylphenol | 4/29/2010 | 60 | 4 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4,6-Dinitro-2-methylphenol | 4/29/2010 | 60 | 4 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Bromophenyl phenyl ether | 4/29/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Bromophenyl phenyl ether | 4/29/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Chloro-3-methylphenol | 4/29/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Chloro-3-methylphenol | 4/29/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Chloroaniline | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Chloroaniline | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Chlorophenyl phenyl ether | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Chlorophenyl phenyl ether | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Methylphenol | 4/29/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Methylphenol | 4/29/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Nitroaniline | 4/29/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Nitroaniline | 4/29/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | 4-Nitrophenol | 4/29/2010 | 50 | 4 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515691 | 4-Nitrophenol | 4/29/2010 | 50 | 4 | 50 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Acenaphthene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Acenaphthene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Acenaphthylene | 4/29/2010 | 10 | 3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Acenaphthylene | 4/29/2010 | 10 | 3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Anthracene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7949BLK | WATER | LB | 2515690 | Anthracene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzidine | 4/29/2010 | 150 | 20 | 150 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzidine | 4/29/2010 | 150 | 20 | 150 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzo (a) pyrene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzo (a) pyrene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzo (b) fluoranthene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzo (b) fluoranthene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzo (g,h,i) perylene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzo (g,h,i) perylene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzo(a)anthracene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzo(a)anthracene | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzo(k)fluoranthene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzo(k)fluoranthene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Benzoic acid | 4/29/2010 | 60 | 14 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Benzoic acid | 4/29/2010 | 60 | 14 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Bis (2-chloroethoxy) methane | 4/29/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Bis (2-chloroethoxy) methane | 4/29/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Bis (2-chloroethyl) ether | 4/29/2010 | 10 | 3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Bis (2-chloroethyl) ether | 4/29/2010 | 10 | 3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Bis (2-ethylhexyl) phthalate | 4/29/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Bis (2-ethylhexyl) phthalate | 4/29/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Butyl benzylphthalate | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Butyl benzylphthalate | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Chrysene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Chrysene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Dibenzo (a,h) anthracene | 4/29/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Dibenzo (a,h) anthracene | 4/29/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Dibenzofuran | 4/29/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Dibenzofuran | 4/29/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Diethyl phthalate | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Diethyl phthalate | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Dimethyl phthalate | 4/29/2010 | 10 | 3 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Dimethyl phthalate | 4/29/2010 | 10 | 3 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7949BLK | WATER | LB | 2515691 | Di-n-butylphthalate | 4/29/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Di-n-butylphthalate | 4/29/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Di-n-octylphthalate | 4/29/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Di-n-octylphthalate | 4/29/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Fluoranthene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Fluoranthene | 4/29/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Fluorene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Fluorene | 4/29/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Hexachlorobenzene | 4/29/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Hexachlorobenzene | 4/29/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Hexachlorobutadiene | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Hexachlorobutadiene | 4/29/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Hexachlorocyclopentadiene | 4/29/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Hexachlorocyclopentadiene | 4/29/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Hexachloroethane | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Hexachloroethane | 4/29/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Indeno(1,2,3-cd)pyrene | 4/29/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Indeno(1,2,3-cd)pyrene | 4/29/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Naphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Naphthalene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Nitrobenzene | 4/29/2010 | 20 | 1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Nitrobenzene | 4/29/2010 | 20 | 1 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515691 | n-Nitrosodi-n-propylamine | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | n-Nitrosodi-n-propylamine | 4/29/2010 | 20 | 3 | 20 | U | UG/L |
| | 7949BLK | | LB | 2515690 | n-Nitrosodiphenylamine | 4/29/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | n-Nitrosodiphenylamine | 4/29/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Pentachlorophenol | 4/29/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Pentachlorophenol | 4/29/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Phenanthrene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Phenanthrene | 4/29/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Phenol | 4/29/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515690 | Phenol | 4/29/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7949BLK | | LB | 2515691 | Pyrene | 4/29/2010 | 10 | 1.2 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7949BLK | WATER | LB | 2515690 | Pyrene | 4/29/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 1,2-Dichlorobenzene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 1,2-Dichlorobenzene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 1,2-Dichlorobenzene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 1,2-Diphenylhydrazine | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 1,2-Diphenylhydrazine | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 1,2-Diphenylhydrazine | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 1,3-Dinitrobenzene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 1,3-Dinitrobenzene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 1,3-Dinitrobenzene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4,5-Trichlorophenol | 5/4/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4,5-Trichlorophenol | 5/4/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4,5-Trichlorophenol | 5/4/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4,6-Trichlorophenol | 5/4/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4,6-Trichlorophenol | 5/4/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4,6-Trichlorophenol | 5/4/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4-Dichlorophenol | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4-Dichlorophenol | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4-Dichlorophenol | 5/4/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4-Dimethylphenol | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4-Dimethylphenol | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4-Dimethylphenol | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4-Dinitrophenol | 5/4/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4-Dinitrophenol | 5/4/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4-Dinitrophenol | 5/4/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,4-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,4-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,4-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2,6-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2,6-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2,6-Dinitrotoluene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Chloronaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Chloronaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7958BLK | WATER | LB | 2515707 | 2-Chloronaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Chlorophenol | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Chlorophenol | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2-Chlorophenol | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Methylnaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Methylnaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2-Methylnaphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Methylphenol | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Methylphenol | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2-Methylphenol | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Nitroaniline | 5/4/2010 | 50 | 3 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Nitroaniline | 5/4/2010 | 50 | 3 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2-Nitroaniline | 5/4/2010 | 50 | 3 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 2-Nitrophenol | 5/4/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 2-Nitrophenol | 5/4/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 2-Nitrophenol | 5/4/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 3,3'-Dichlorobenzidine | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 3,3'-Dichlorobenzidine | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 3,3'-Dichlorobenzidine | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 3-Nitroaniline | 5/4/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 3-Nitroaniline | 5/4/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 3-Nitroaniline | 5/4/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4,6-Dinitro-2-methylphenol | 5/4/2010 | 60 | 4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4,6-Dinitro-2-methylphenol | 5/4/2010 | 60 | 4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4,6-Dinitro-2-methylphenol | 5/4/2010 | 60 | 4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Bromophenyl phenyl ether | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Bromophenyl phenyl ether | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Bromophenyl phenyl ether | 5/4/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Chloro-3-methylphenol | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Chloro-3-methylphenol | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Chloro-3-methylphenol | 5/4/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Chloroaniline | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Chloroaniline | 5/4/2010 | 20 | 3 | 20 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7958BLK | WATER | LB | 2515707 | 4-Chloroaniline | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Chlorophenyl phenyl ether | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Chlorophenyl phenyl ether | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Chlorophenyl phenyl ether | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Methylphenol | 5/4/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Methylphenol | 5/4/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Methylphenol | 5/4/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Nitroaniline | 5/4/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Nitroaniline | 5/4/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Nitroaniline | 5/4/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | 4-Nitrophenol | 5/4/2010 | 50 | 4 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515725 | 4-Nitrophenol | 5/4/2010 | 50 | 4 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515707 | 4-Nitrophenol | 5/4/2010 | 50 | 4 | 50 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Acenaphthene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Acenaphthene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Acenaphthene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Acenaphthylene | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Acenaphthylene | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Acenaphthylene | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Anthracene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Anthracene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Anthracene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzidine | 5/4/2010 | 150 | 20 | 150 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzidine | 5/4/2010 | 150 | 20 | 150 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzidine | 5/4/2010 | 150 | 20 | 150 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzo (a) pyrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzo (a) pyrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzo (a) pyrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzo (b) fluoranthene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzo (b) fluoranthene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzo (b) fluoranthene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzo (g,h,i) perylene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzo (g,h,i) perylene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7958BLK | WATER | LB | 2515707 | Benzo (g,h,i) perylene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzo(a)anthracene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzo(a)anthracene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzo(a)anthracene | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzo(k)fluoranthene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzo(k)fluoranthene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzo(k)fluoranthene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Benzoic acid | 5/4/2010 | 60 | 14 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Benzoic acid | 5/4/2010 | 60 | 14 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Benzoic acid | 5/4/2010 | 60 | 14 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Bis (2-chloroethoxy) methane | 5/4/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Bis (2-chloroethoxy) methane | 5/4/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Bis (2-chloroethoxy) methane | 5/4/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Bis (2-chloroethyl) ether | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Bis (2-chloroethyl) ether | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Bis (2-chloroethyl) ether | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Bis (2-ethylhexyl) phthalate | 5/4/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Bis (2-ethylhexyl) phthalate | 5/4/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Bis (2-ethylhexyl) phthalate | 5/4/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Butyl benzylphthalate | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Butyl benzylphthalate | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Butyl benzylphthalate | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Chrysene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Chrysene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Chrysene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Dibenzo (a,h) anthracene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Dibenzo (a,h) anthracene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Dibenzo (a,h) anthracene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Dibenzofuran | 5/4/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Dibenzofuran | 5/4/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Dibenzofuran | 5/4/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Diethyl phthalate | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Diethyl phthalate | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7958BLK | WATER | LB | 2515707 | Diethyl phthalate | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Dimethyl phthalate | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Dimethyl phthalate | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Dimethyl phthalate | 5/4/2010 | 10 | 3 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Di-n-butylphthalate | 5/4/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Di-n-butylphthalate | 5/4/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Di-n-butylphthalate | 5/4/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Di-n-octylphthalate | 5/4/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Di-n-octylphthalate | 5/4/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Di-n-octylphthalate | 5/4/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Fluoranthene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Fluoranthene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Fluoranthene | 5/4/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Fluorene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Fluorene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Fluorene | 5/4/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Hexachlorobenzene | 5/4/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Hexachlorobenzene | 5/4/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Hexachlorobenzene | 5/4/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Hexachlorobutadiene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Hexachlorobutadiene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Hexachlorobutadiene | 5/4/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Hexachlorocyclopentadiene | 5/4/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Hexachlorocyclopentadiene | 5/4/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Hexachlorocyclopentadiene | 5/4/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Hexachloroethane | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Hexachloroethane | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Hexachloroethane | 5/4/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Naphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Naphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7958BLK | WATER | LB | 2515707 | Naphthalene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Nitrobenzene | 5/4/2010 | 20 | 1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Nitrobenzene | 5/4/2010 | 20 | 1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Nitrobenzene | 5/4/2010 | 20 | 1 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | n-Nitrosodi-n-propylamine | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515736 | n-Nitrosodi-n-propylamine | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515707 | n-Nitrosodi-n-propylamine | 5/4/2010 | 20 | 3 | 20 | U | UG/L |
| | 7958BLK | | LB | 2515725 | n-Nitrosodiphenylamine | 5/4/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | n-Nitrosodiphenylamine | 5/4/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | n-Nitrosodiphenylamine | 5/4/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Pentachlorophenol | 5/4/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Pentachlorophenol | 5/4/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Pentachlorophenol | 5/4/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Phenanthrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Phenanthrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Phenanthrene | 5/4/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Phenol | 5/4/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Phenol | 5/4/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Phenol | 5/4/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515736 | Pyrene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515725 | Pyrene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7958BLK | | LB | 2515707 | Pyrene | 5/4/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 1,2-Dichlorobenzene | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 1,2-Diphenylhydrazine | 5/5/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 1,3-Dinitrobenzene | 5/5/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4,5-Trichlorophenol | 5/5/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4,6-Trichlorophenol | 5/5/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4-Dichlorophenol | 5/5/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4-Dimethylphenol | 5/5/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4-Dinitrophenol | 5/5/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,4-Dinitrotoluene | 5/5/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2,6-Dinitrotoluene | 5/5/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2-Chloronaphthalene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7976BLK | WATER | LB | 2515752 | 2-Chlorophenol | 5/5/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2-Methylnaphthalene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2-Methylphenol | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2-Nitroaniline | 5/5/2010 | 50 | 3 | 50 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 2-Nitrophenol | 5/5/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 3,3'-Dichlorobenzidine | 5/5/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 3-Nitroaniline | 5/5/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4,6-Dinitro-2-methylphenol | 5/5/2010 | 60 | 4 | 60 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Bromophenyl phenyl ether | 5/5/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Chloro-3-methylphenol | 5/5/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Chloroaniline | 5/5/2010 | 20 | 3 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Chlorophenyl phenyl ether | 5/5/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Methylphenol | 5/5/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Nitroaniline | 5/5/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | 4-Nitrophenol | 5/5/2010 | 50 | 4 | 50 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Acenaphthene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Acenaphthylene | 5/5/2010 | 10 | 3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Anthracene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzidine | 5/5/2010 | 150 | 20 | 150 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzo (a) pyrene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzo (b) fluoranthene | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzo (g,h,i) perylene | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzo(a)anthracene | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzo(k)fluoranthene | 5/5/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Benzoic acid | 5/5/2010 | 60 | 14 | 60 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Bis (2-chloroethoxy) methane | 5/5/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Bis (2-chloroethyl) ether | 5/5/2010 | 10 | 3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Bis (2-ethylhexyl) phthalate | 5/5/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Butyl benzylphthalate | 5/5/2010 | 20 | 3 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Chrysene | 5/5/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Dibenzo (a,h) anthracene | 5/5/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Dibenzofuran | 5/5/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Diethyl phthalate | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 7976BLK | WATER | LB | 2515752 | Dimethyl phthalate | 5/5/2010 | 10 | 3 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Di-n-butylphthalate | 5/5/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Di-n-octylphthalate | 5/5/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Fluoranthene | 5/5/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Fluorene | 5/5/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Hexachlorobenzene | 5/5/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Hexachlorobutadiene | 5/5/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Hexachlorocyclopentadiene | 5/5/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Hexachloroethane | 5/5/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Indeno(1,2,3-cd)pyrene | 5/5/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Naphthalene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Nitrobenzene | 5/5/2010 | 20 | 1 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | n-Nitrosodi-n-propylamine | 5/5/2010 | 20 | 3 | 20 | U | UG/L |
| | 7976BLK | | LB | 2515752 | n-Nitrosodiphenylamine | 5/5/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Pentachlorophenol | 5/5/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Phenanthrene | 5/5/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Phenol | 5/5/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 7976BLK | | LB | 2515752 | Pyrene | 5/5/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 1,2-Dichlorobenzene | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 1,2-Diphenylhydrazine | 5/10/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 1,3-Dinitrobenzene | 5/10/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4,5-Trichlorophenol | 5/10/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4,6-Trichlorophenol | 5/10/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4-Dichlorophenol | 5/10/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4-Dimethylphenol | 5/10/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4-Dinitrophenol | 5/10/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,4-Dinitrotoluene | 5/10/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2,6-Dinitrotoluene | 5/10/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2-Chloronaphthalene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2-Chlorophenol | 5/10/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2-Methylnaphthalene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2-Methylphenol | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 2-Nitroaniline | 5/10/2010 | 50 | 3 | 50 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8005BLK | WATER | LB | 2515786 | 2-Nitrophenol | 5/10/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 3,3'-Dichlorobenzidine | 5/10/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 3-Nitroaniline | 5/10/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4,6-Dinitro-2-methylphenol | 5/10/2010 | 60 | 4 | 60 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Bromophenyl phenyl ether | 5/10/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Chloro-3-methylphenol | 5/10/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Chloroaniline | 5/10/2010 | 20 | 3 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Chlorophenyl phenyl ether | 5/10/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Methylphenol | 5/10/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Nitroaniline | 5/10/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | 4-Nitrophenol | 5/10/2010 | 50 | 4 | 50 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Acenaphthene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Acenaphthylene | 5/10/2010 | 10 | 3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Anthracene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzidine | 5/10/2010 | 150 | 20 | 150 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzo (a) pyrene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzo (b) fluoranthene | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzo (g,h,i) perylene | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzo(a)anthracene | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzo(k)fluoranthene | 5/10/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Benzoic acid | 5/10/2010 | 60 | 14 | 60 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Bis (2-chloroethoxy) methane | 5/10/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Bis (2-chloroethyl) ether | 5/10/2010 | 10 | 3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Bis (2-ethylhexyl) phthalate | 5/10/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Butyl benzylphthalate | 5/10/2010 | 20 | 3 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Chrysene | 5/10/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Dibenzo (a,h) anthracene | 5/10/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Dibenzofuran | 5/10/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Diethyl phthalate | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Dimethyl phthalate | 5/10/2010 | 10 | 3 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Di-n-butylphthalate | 5/10/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Di-n-octylphthalate | 5/10/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Fluoranthene | 5/10/2010 | 20 | 2.8 | 20 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8005BLK | WATER | LB | 2515786 | Fluorene | 5/10/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Hexachlorobenzene | 5/10/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Hexachlorobutadiene | 5/10/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Hexachlorocyclopentadiene | 5/10/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Hexachloroethane | 5/10/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Indeno(1,2,3-cd)pyrene | 5/10/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Naphthalene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Nitrobenzene | 5/10/2010 | 20 | 1 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | n-Nitrosodi-n-propylamine | 5/10/2010 | 20 | 3 | 20 | U | UG/L |
| | 8005BLK | | LB | 2515786 | n-Nitrosodiphenylamine | 5/10/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Pentachlorophenol | 5/10/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Phenanthrene | 5/10/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Phenol | 5/10/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 8005BLK | | LB | 2515786 | Pyrene | 5/10/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 1,2-Dichlorobenzene | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 1,2-Diphenylhydrazine | 5/11/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 1,3-Dinitrobenzene | 5/11/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4,5-Trichlorophenol | 5/11/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4,6-Trichlorophenol | 5/11/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4-Dichlorophenol | 5/11/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4-Dimethylphenol | 5/11/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4-Dinitrophenol | 5/11/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,4-Dinitrotoluene | 5/11/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2,6-Dinitrotoluene | 5/11/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Chloronaphthalene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Chlorophenol | 5/11/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Methylnaphthalene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Methylphenol | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Nitroaniline | 5/11/2010 | 50 | 3 | 50 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 2-Nitrophenol | 5/11/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 3,3'-Dichlorobenzidine | 5/11/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 3-Nitroaniline | 5/11/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4,6-Dinitro-2-methylphenol | 5/11/2010 | 60 | 4 | 60 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8015BLK | WATER | LB | 2515808 | 4-Bromophenyl phenyl ether | 5/11/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Chloro-3-methylphenol | 5/11/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Chloroaniline | 5/11/2010 | 20 | 3 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Chlorophenyl phenyl ether | 5/11/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Methylphenol | 5/11/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Nitroaniline | 5/11/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | 4-Nitrophenol | 5/11/2010 | 50 | 4 | 50 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Acenaphthene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Acenaphthylene | 5/11/2010 | 10 | 3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Anthracene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzidine | 5/11/2010 | 150 | 20 | 150 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzo (a) pyrene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzo (b) fluoranthene | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzo (g,h,i) perylene | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzo(a)anthracene | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzo(k)fluoranthene | 5/11/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Benzoic acid | 5/11/2010 | 60 | 14 | 60 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Bis (2-chloroethoxy) methane | 5/11/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Bis (2-chloroethyl) ether | 5/11/2010 | 10 | 3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Bis (2-ethylhexyl) phthalate | 5/11/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Butyl benzylphthalate | 5/11/2010 | 20 | 3 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Chrysene | 5/11/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Dibenzo (a,h) anthracene | 5/11/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Dibenzofuran | 5/11/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Diethyl phthalate | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Dimethyl phthalate | 5/11/2010 | 10 | 3 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Di-n-butylphthalate | 5/11/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Di-n-octylphthalate | 5/11/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Fluoranthene | 5/11/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Fluorene | 5/11/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Hexachlorobenzene | 5/11/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Hexachlorobutadiene | 5/11/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Hexachlorocyclopentadiene | 5/11/2010 | 10 | 0.82 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8015BLK | WATER | LB | 2515808 | Hexachloroethane | 5/11/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Indeno(1,2,3-cd)pyrene | 5/11/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Naphthalene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Nitrobenzene | 5/11/2010 | 20 | 1 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | n-Nitrosodi-n-propylamine | 5/11/2010 | 20 | 3 | 20 | U | UG/L |
| | 8015BLK | | LB | 2515808 | n-Nitrosodiphenylamine | 5/11/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Pentachlorophenol | 5/11/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Phenanthrene | 5/11/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Phenol | 5/11/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 8015BLK | | LB | 2515808 | Pyrene | 5/11/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 1,2-Dichlorobenzene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 1,2-Diphenylhydrazine | 6/27/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4,5-Trichlorophenol | 6/27/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4,6-Trichlorophenol | 6/27/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4-Dichlorophenol | 6/27/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4-Dimethylphenol | 6/27/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4-Dinitrophenol | 6/27/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,4-Dinitrotoluene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2,6-Dinitrotoluene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Chloronaphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Chlorophenol | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Methylnaphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Methylphenol | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Nitroaniline | 6/27/2010 | 50 | 3 | 50 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 2-Nitrophenol | 6/27/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 3,3'-Dichlorobenzidine | 6/27/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 3-Nitroaniline | 6/27/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4,6-Dinitro-2-methylphenol | 6/27/2010 | 60 | 4 | 60 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Bromophenyl phenyl ether | 6/27/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Chloro-3-methylphenol | 6/27/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Chloroaniline | 6/27/2010 | 20 | 3 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Chlorophenyl phenyl ether | 6/27/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Methylphenol | 6/27/2010 | 20 | 6.1 | 20 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8271BLK | WATER | LB | 2516238 | 4-Nitroaniline | 6/27/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | 4-Nitrophenol | 6/27/2010 | 50 | 4 | 50 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Acenaphthene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Acenaphthylene | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Anthracene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzidine | 6/27/2010 | 150 | 20 | 150 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzo (a) pyrene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzo (b) fluoranthene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzo (g,h,i) perylene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzo(a)anthracene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzo(k)fluoranthene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Benzoic acid | 6/27/2010 | 60 | 14 | 60 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Bis (2-chloroethoxy) methane | 6/27/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Bis (2-chloroethyl) ether | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Bis (2-ethylhexyl) phthalate | 6/27/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Butyl benzylphthalate | 6/27/2010 | 20 | 3 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Chrysene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Dibenzo (a,h) anthracene | 6/27/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Dibenzofuran | 6/27/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Diethyl phthalate | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Dimethyl phthalate | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Di-n-butylphthalate | 6/27/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Di-n-octylphthalate | 6/27/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Fluoranthene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Fluorene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Hexachlorobenzene | 6/27/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Hexachlorobutadiene | 6/27/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Hexachlorocyclopentadiene | 6/27/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Hexachloroethane | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Indeno(1,2,3-cd)pyrene | 6/27/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Naphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Nitrobenzene | 6/27/2010 | 20 | 1 | 20 | U | UG/L |
| | 8271BLK | | LB | 2516238 | n-Nitrosodi-n-propylamine | 6/27/2010 | 20 | 3 | 20 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8271BLK | WATER | LB | 2516238 | n-Nitrosodiphenylamine | 6/27/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Pentachlorophenol | 6/27/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Phenanthrene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Phenol | 6/27/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 8271BLK | | LB | 2516238 | Pyrene | 6/27/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 1,2-Dichlorobenzene | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 1,2-Diphenylhydrazine | 6/26/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4,5-Trichlorophenol | 6/26/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4,6-Trichlorophenol | 6/26/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4-Dichlorophenol | 6/26/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4-Dimethylphenol | 6/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4-Dinitrophenol | 6/26/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,4-Dinitrotoluene | 6/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2,6-Dinitrotoluene | 6/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Chloronaphthalene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Chlorophenol | 6/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Methylnaphthalene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Methylphenol | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Nitroaniline | 6/26/2010 | 50 | 3 | 50 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 2-Nitrophenol | 6/26/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 3,3'-Dichlorobenzidine | 6/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 3-Nitroaniline | 6/26/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4,6-Dinitro-2-methylphenol | 6/26/2010 | 60 | 4 | 60 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Bromophenyl phenyl ether | 6/26/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Chloro-3-methylphenol | 6/26/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Chloroaniline | 6/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Chlorophenyl phenyl ether | 6/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Methylphenol | 6/26/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Nitroaniline | 6/26/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | 4-Nitrophenol | 6/26/2010 | 50 | 4 | 50 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Acenaphthene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Acenaphthylene | 6/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Anthracene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8290BLK | WATER | LB | 2516259 | Benzidine | 6/26/2010 | 150 | 20 | 150 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzo (a) pyrene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzo (b) fluoranthene | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzo (g,h,i) perylene | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzo(a)anthracene | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzo(k)fluoranthene | 6/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Benzoic acid | 6/26/2010 | 60 | 14 | 60 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Bis (2-chloroethoxy) methane | 6/26/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Bis (2-chloroethyl) ether | 6/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Bis (2-ethylhexyl) phthalate | 6/26/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Butyl benzylphthalate | 6/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Chrysene | 6/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Dibenzo (a,h) anthracene | 6/26/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Dibenzofuran | 6/26/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Diethyl phthalate | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Dimethyl phthalate | 6/26/2010 | 10 | 3 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Di-n-butylphthalate | 6/26/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Di-n-octylphthalate | 6/26/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Fluoranthene | 6/26/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Fluorene | 6/26/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Hexachlorobenzene | 6/26/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Hexachlorobutadiene | 6/26/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Hexachlorocyclopentadiene | 6/26/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Hexachloroethane | 6/26/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Indeno(1,2,3-cd)pyrene | 6/26/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Naphthalene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Nitrobenzene | 6/26/2010 | 20 | 1 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | n-Nitrosodi-n-propylamine | 6/26/2010 | 20 | 3 | 20 | U | UG/L |
| | 8290BLK | | LB | 2516259 | n-Nitrosodiphenylamine | 6/26/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Pentachlorophenol | 6/26/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Phenanthrene | 6/26/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Phenol | 6/26/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 8290BLK | | LB | 2516259 | Pyrene | 6/26/2010 | 10 | 1.2 | 10 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8312BLK | WATER | LB | 2516299 | 1,2-Dichlorobenzene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 1,2-Diphenylhydrazine | 6/27/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4,5-Trichlorophenol | 6/27/2010 | 20 | 3.4 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4,6-Trichlorophenol | 6/27/2010 | 20 | 0.84 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4-Dichlorophenol | 6/27/2010 | 10 | 3.1 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4-Dimethylphenol | 6/27/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4-Dinitrophenol | 6/27/2010 | 60 | 5.6 | 60 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,4-Dinitrotoluene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2,6-Dinitrotoluene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Chloronaphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Chlorophenol | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Methylnaphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Methylphenol | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Nitroaniline | 6/27/2010 | 50 | 3 | 50 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 2-Nitrophenol | 6/27/2010 | 20 | 0.77 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 3,3'-Dichlorobenzidine | 6/27/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 3-Nitroaniline | 6/27/2010 | 50 | 2.8 | 50 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4,6-Dinitro-2-methylphenol | 6/27/2010 | 60 | 4 | 60 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Bromophenyl phenyl ether | 6/27/2010 | 10 | 2.3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Chloro-3-methylphenol | 6/27/2010 | 20 | 2.7 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Chloroaniline | 6/27/2010 | 20 | 3 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Chlorophenyl phenyl ether | 6/27/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Methylphenol | 6/27/2010 | 20 | 6.1 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Nitroaniline | 6/27/2010 | 10 | 1.3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | 4-Nitrophenol | 6/27/2010 | 50 | 4 | 50 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Acenaphthene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Acenaphthylene | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Anthracene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzidine | 6/27/2010 | 150 | 20 | 150 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzo (a) pyrene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzo (b) fluoranthene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzo (g,h,i) perylene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzo(a)anthracene | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | 8312BLK | WATER | LB | 2516299 | Benzo(k)fluoranthene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Benzoic acid | 6/27/2010 | 60 | 14 | 60 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Bis (2-chloroethoxy) methane | 6/27/2010 | 10 | 3.5 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Bis (2-chloroethyl) ether | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Bis (2-ethylhexyl) phthalate | 6/27/2010 | 10 | 4.4 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Butyl benzylphthalate | 6/27/2010 | 20 | 3 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Chrysene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Dibenzo (a,h) anthracene | 6/27/2010 | 10 | 1.2 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Dibenzofuran | 6/27/2010 | 10 | 2.7 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Diethyl phthalate | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Dimethyl phthalate | 6/27/2010 | 10 | 3 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Di-n-butylphthalate | 6/27/2010 | 20 | 0.86 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Di-n-octylphthalate | 6/27/2010 | 20 | 1.1 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Fluoranthene | 6/27/2010 | 20 | 2.8 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Fluorene | 6/27/2010 | 10 | 2.9 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Hexachlorobenzene | 6/27/2010 | 10 | 0.41 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Hexachlorobutadiene | 6/27/2010 | 10 | 2.5 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Hexachlorocyclopentadiene | 6/27/2010 | 10 | 0.82 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Hexachloroethane | 6/27/2010 | 10 | 2.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Indeno(1,2,3-cd)pyrene | 6/27/2010 | 10 | 1.6 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Naphthalene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Nitrobenzene | 6/27/2010 | 20 | 1 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | n-Nitrosodi-n-propylamine | 6/27/2010 | 20 | 3 | 20 | U | UG/L |
| | 8312BLK | | LB | 2516299 | n-Nitrosodiphenylamine | 6/27/2010 | 10 | 3.4 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Pentachlorophenol | 6/27/2010 | 60 | 1.4 | 60 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Phenanthrene | 6/27/2010 | 10 | 2.8 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Phenol | 6/27/2010 | 10 | 1.7 | 10 | U | UG/L |
| | 8312BLK | | LB | 2516299 | Pyrene | 6/27/2010 | 10 | 1.2 | 10 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Dichlorobenzene | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,2-Diphenylhydrazine | 4/26/2010 | 11.1 | 3.4 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1,3-Dinitrobenzene | 4/26/2010 | 11.1 | 2.8 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,4,5-Trichlorophenol | 4/26/2010 | 22.2 | 3.8 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,4,6-Trichlorophenol | 4/26/2010 | 22.2 | 0.93 | 22.2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | ST106-EB-10618-21042010 | WATER | EB | 2515619 | 2,4-Dichlorophenol | 4/26/2010 | 11.1 | 3.4 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,4-Dimethylphenol | 4/26/2010 | 11.1 | 2.6 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,4-Dinitrophenol | 4/26/2010 | 66.7 | 6.2 | 66.7 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,4-Dinitrotoluene | 4/26/2010 | 22.2 | 3.1 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2,6-Dinitrotoluene | 4/26/2010 | 22.2 | 3.1 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Chloronaphthalene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Chlorophenol | 4/26/2010 | 11.1 | 3.2 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Methylnaphthalene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Methylphenol | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Nitroaniline | 4/26/2010 | 55.6 | 3.3 | 55.6 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Nitrophenol | 4/26/2010 | 22.2 | 0.86 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 3,3'-Dichlorobenzidine | 4/26/2010 | 22.2 | 3 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 3-Nitroaniline | 4/26/2010 | 55.6 | 3.1 | 55.6 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4,6-Dinitro-2-methylphenol | 4/26/2010 | 66.7 | 4.4 | 66.7 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Bromophenyl phenyl ether | 4/26/2010 | 11.1 | 2.6 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Chloro-3-methylphenol | 4/26/2010 | 22.2 | 3 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Chloroaniline | 4/26/2010 | 22.2 | 3.3 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Chlorophenyl phenyl ether | 4/26/2010 | 11.1 | 2.8 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Methylphenol | 4/26/2010 | 22.2 | 6.8 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Nitroaniline | 4/26/2010 | 11.1 | 1.4 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 4-Nitrophenol | 4/26/2010 | 55.6 | 4.4 | 55.6 | R | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Acenaphthene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Acenaphthylene | 4/26/2010 | 11.1 | 3.3 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Anthracene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzidine | 4/26/2010 | 167 | 22.2 | 167 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (a) pyrene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (b) fluoranthene | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (g,h,i) perylene | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo(a)anthracene | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo(k)fluoranthene | 4/26/2010 | 11.1 | 3.2 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzoic acid | 4/26/2010 | 66.7 | 15.6 | 66.7 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bis (2-chloroethoxy) methane | 4/26/2010 | 11.1 | 3.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Bis (2-chloroethyl) ether | 4/26/2010 | 11.1 | 3.3 | 11.1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | | | |
| | ST106-EB-10618-21042010 | WATER | EB | 2515619 | Bis (2-ethylhexyl) phthalate | 4/26/2010 | 11.1 | 4.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Butyl benzylphthalate | 4/26/2010 | 22.2 | 3.3 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chrysene | 4/26/2010 | 11.1 | 3.2 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dibenzo (a,h) anthracene | 4/26/2010 | 11.1 | 1.3 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dibenzofuran | 4/26/2010 | 11.1 | 3 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Diethyl phthalate | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dimethyl phthalate | 4/26/2010 | 11.1 | 3.3 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Di-n-butylphthalate | 4/26/2010 | 22.2 | 0.96 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Di-n-octylphthalate | 4/26/2010 | 22.2 | 1.2 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Fluoranthene | 4/26/2010 | 22.2 | 3.1 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Fluorene | 4/26/2010 | 11.1 | 3.2 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Hexachlorobenzene | 4/26/2010 | 11.1 | 0.46 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Hexachlorobutadiene | 4/26/2010 | 11.1 | 2.8 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Hexachlorocyclopentadiene | 4/26/2010 | 11.1 | 0.91 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Hexachloroethane | 4/26/2010 | 11.1 | 2.9 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Indeno(1,2,3-cd)pyrene | 4/26/2010 | 11.1 | 1.8 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Naphthalene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Nitrobenzene | 4/26/2010 | 22.2 | 1.1 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | n-Nitrosodi-n-propylamine | 4/26/2010 | 22.2 | 3.3 | 22.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | n-Nitrosodiphenylamine | 4/26/2010 | 11.1 | 3.8 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Pentachlorophenol | 4/26/2010 | 66.7 | 1.6 | 66.7 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Phenanthrene | 4/26/2010 | 11.1 | 3.1 | 11.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Phenol | 4/26/2010 | 11.1 | 1.9 | 11.1 | R | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Pyrene | 4/26/2010 | 11.1 | 1.3 | 11.1 | U | UG/L |
| **SW8310** | | | | | | | | | | | |
| | 7896MB | WATER | LB | 2515580 | 1-Methylnaphthalene | 4/19/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7896MB | | LB | 2515580 | 2-Methylnaphthalene | 4/19/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7896MB | | LB | 2515580 | Acenaphthene | 4/19/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7896MB | | LB | 2515580 | Acenaphthylene | 4/19/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7896MB | | LB | 2515580 | Anthracene | 4/19/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7896MB | | LB | 2515580 | Benzo (a) pyrene | 4/19/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7896MB | | LB | 2515580 | Benzo (b) fluoranthene | 4/19/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7896MB | | LB | 2515580 | Benzo (g,h,i) perylene | 4/19/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7896MB | WATER | LB | 2515580 | Benzo(a)anthracene | 4/19/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7896MB | | LB | 2515580 | Benzo(k)fluoranthene | 4/19/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7896MB | | LB | 2515580 | Chrysene | 4/19/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7896MB | | LB | 2515580 | Dibenzo (a,h) anthracene | 4/19/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7896MB | | LB | 2515580 | Fluoranthene | 4/19/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7896MB | | LB | 2515580 | Fluorene | 4/19/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7896MB | | LB | 2515580 | Indeno(1,2,3-cd)pyrene | 4/19/2010 | 0.032 | 0.02 | 0.2 | J | UG/L |
| | 7896MB | | LB | 2515580 | Naphthalene | 4/19/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7896MB | | LB | 2515580 | Phenanthrene | 4/19/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7896MB | | LB | 2515580 | Pyrene | 4/19/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | 1-Methylnaphthalene | 4/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7914MB | | LB | 2515603 | 1-Methylnaphthalene | 4/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7914MB | | LB | 2515592 | 2-Methylnaphthalene | 4/22/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7914MB | | LB | 2515603 | 2-Methylnaphthalene | 4/22/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7914MB | | LB | 2515592 | Acenaphthene | 4/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7914MB | | LB | 2515603 | Acenaphthene | 4/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7914MB | | LB | 2515592 | Acenaphthylene | 4/22/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7914MB | | LB | 2515603 | Acenaphthylene | 4/22/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7914MB | | LB | 2515592 | Anthracene | 4/22/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515603 | Anthracene | 4/22/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515592 | Benzo (a) pyrene | 4/22/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Benzo (a) pyrene | 4/22/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | Benzo (b) fluoranthene | 4/22/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Benzo (b) fluoranthene | 4/22/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | Benzo (g,h,i) perylene | 4/22/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Benzo (g,h,i) perylene | 4/22/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | Benzo(a)anthracene | 4/22/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Benzo(a)anthracene | 4/22/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | Benzo(k)fluoranthene | 4/22/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7914MB | | LB | 2515603 | Benzo(k)fluoranthene | 4/22/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7914MB | | LB | 2515592 | Chrysene | 4/22/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Chrysene | 4/22/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515592 | Dibenzo (a,h) anthracene | 4/22/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7914MB | WATER | LB | 2515603 | Dibenzo (a,h) anthracene | 4/22/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515592 | Fluoranthene | 4/22/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7914MB | | LB | 2515603 | Fluoranthene | 4/22/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7914MB | | LB | 2515592 | Fluorene | 4/22/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515603 | Fluorene | 4/22/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515592 | Indeno(1,2,3-cd)pyrene | 4/22/2010 | 0.024 | 0.02 | 0.2 | J | UG/L |
| | 7914MB | | LB | 2515603 | Indeno(1,2,3-cd)pyrene | 4/22/2010 | 0.024 | 0.02 | 0.2 | J | UG/L |
| | 7914MB | | LB | 2515592 | Naphthalene | 4/22/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7914MB | | LB | 2515603 | Naphthalene | 4/22/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7914MB | | LB | 2515592 | Phenanthrene | 4/22/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515603 | Phenanthrene | 4/22/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7914MB | | LB | 2515592 | Pyrene | 4/22/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7914MB | | LB | 2515603 | Pyrene | 4/22/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | 1-Methylnaphthalene | 4/27/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7932MB | | LB | 2515619 | 1-Methylnaphthalene | 4/27/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7932MB | | LB | 2515638 | 2-Methylnaphthalene | 4/27/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7932MB | | LB | 2515619 | 2-Methylnaphthalene | 4/27/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7932MB | | LB | 2515638 | Acenaphthene | 4/27/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7932MB | | LB | 2515619 | Acenaphthene | 4/27/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7932MB | | LB | 2515638 | Acenaphthylene | 4/27/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7932MB | | LB | 2515619 | Acenaphthylene | 4/27/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7932MB | | LB | 2515638 | Anthracene | 4/27/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515619 | Anthracene | 4/27/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515619 | Benzo (a) pyrene | 4/27/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | Benzo (a) pyrene | 4/27/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | Benzo (b) fluoranthene | 4/27/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Benzo (b) fluoranthene | 4/27/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Benzo (g,h,i) perylene | 4/27/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | Benzo (g,h,i) perylene | 4/27/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | Benzo(a)anthracene | 4/27/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Benzo(a)anthracene | 4/27/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Benzo(k)fluoranthene | 4/27/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7932MB | | LB | 2515638 | Benzo(k)fluoranthene | 4/27/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7932MB | WATER | LB | 2515638 | Chrysene | 4/27/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Chrysene | 4/27/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515638 | Dibenzo (a,h) anthracene | 4/27/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515619 | Dibenzo (a,h) anthracene | 4/27/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515638 | Fluoranthene | 4/27/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7932MB | | LB | 2515619 | Fluoranthene | 4/27/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7932MB | | LB | 2515619 | Fluorene | 4/27/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515638 | Fluorene | 4/27/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515619 | Indeno(1,2,3-cd)pyrene | 4/27/2010 | 0.038 | 0.02 | 0.2 | J | UG/L |
| | 7932MB | | LB | 2515638 | Indeno(1,2,3-cd)pyrene | 4/27/2010 | 0.038 | 0.02 | 0.2 | J | UG/L |
| | 7932MB | | LB | 2515638 | Naphthalene | 4/27/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7932MB | | LB | 2515619 | Naphthalene | 4/27/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7932MB | | LB | 2515638 | Phenanthrene | 4/27/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515619 | Phenanthrene | 4/27/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7932MB | | LB | 2515638 | Pyrene | 4/27/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7932MB | | LB | 2515619 | Pyrene | 4/27/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | 1-Methylnaphthalene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7943MB | | LB | 2515679 | 2-Methylnaphthalene | 4/29/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7943MB | | LB | 2515679 | Acenaphthene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7943MB | | LB | 2515679 | Acenaphthylene | 4/29/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7943MB | | LB | 2515679 | Anthracene | 4/29/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7943MB | | LB | 2515679 | Benzo (a) pyrene | 4/29/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | Benzo (b) fluoranthene | 4/29/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | Benzo (g,h,i) perylene | 4/29/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | Benzo(a)anthracene | 4/29/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | Benzo(k)fluoranthene | 4/29/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7943MB | | LB | 2515679 | Chrysene | 4/29/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7943MB | | LB | 2515679 | Dibenzo (a,h) anthracene | 4/29/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7943MB | | LB | 2515679 | Fluoranthene | 4/29/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7943MB | | LB | 2515679 | Fluorene | 4/29/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7943MB | | LB | 2515679 | Indeno(1,2,3-cd)pyrene | 4/29/2010 | 0.03 | 0.02 | 0.2 | J | UG/L |
| | 7943MB | | LB | 2515679 | Naphthalene | 4/29/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7943MB | | LB | 2515679 | Phenanthrene | 4/29/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7943MB | WATER | LB | 2515679 | Pyrene | 4/29/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | 1-Methylnaphthalene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | 1-Methylnaphthalene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7947MB | | LB | 2515691 | 2-Methylnaphthalene | 4/29/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | 2-Methylnaphthalene | 4/29/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | Acenaphthene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7947MB | | LB | 2515691 | Acenaphthene | 4/29/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7947MB | | LB | 2515691 | Acenaphthylene | 4/29/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | Acenaphthylene | 4/29/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | Anthracene | 4/29/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Anthracene | 4/29/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Benzo (a) pyrene | 4/29/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515690 | Benzo (a) pyrene | 4/29/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Benzo (b) fluoranthene | 4/29/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515690 | Benzo (b) fluoranthene | 4/29/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Benzo (g,h,i) perylene | 4/29/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515690 | Benzo (g,h,i) perylene | 4/29/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515690 | Benzo(a)anthracene | 4/29/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Benzo(a)anthracene | 4/29/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Benzo(k)fluoranthene | 4/29/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7947MB | | LB | 2515690 | Benzo(k)fluoranthene | 4/29/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7947MB | | LB | 2515690 | Chrysene | 4/29/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Chrysene | 4/29/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515691 | Dibenzo (a,h) anthracene | 4/29/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515690 | Dibenzo (a,h) anthracene | 4/29/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Fluoranthene | 4/29/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7947MB | | LB | 2515690 | Fluoranthene | 4/29/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7947MB | | LB | 2515690 | Fluorene | 4/29/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Fluorene | 4/29/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Indeno(1,2,3-cd)pyrene | 4/29/2010 | 0.031 | 0.02 | 0.2 | J | UG/L |
| | 7947MB | | LB | 2515690 | Indeno(1,2,3-cd)pyrene | 4/29/2010 | 0.031 | 0.02 | 0.2 | J | UG/L |
| | 7947MB | | LB | 2515691 | Naphthalene | 4/29/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7947MB | | LB | 2515690 | Naphthalene | 4/29/2010 | 1 | 0.042 | 1 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7947MB | WATER | LB | 2515691 | Phenanthrene | 4/29/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515690 | Phenanthrene | 4/29/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7947MB | | LB | 2515691 | Pyrene | 4/29/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7947MB | | LB | 2515690 | Pyrene | 4/29/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | 1-Methylnaphthalene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7962MB | | LB | 2515707 | 1-Methylnaphthalene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7962MB | | LB | 2515725 | 2-Methylnaphthalene | 5/4/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7962MB | | LB | 2515707 | 2-Methylnaphthalene | 5/4/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7962MB | | LB | 2515725 | Acenaphthene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7962MB | | LB | 2515707 | Acenaphthene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7962MB | | LB | 2515725 | Acenaphthylene | 5/4/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7962MB | | LB | 2515707 | Acenaphthylene | 5/4/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7962MB | | LB | 2515725 | Anthracene | 5/4/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515707 | Anthracene | 5/4/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515725 | Benzo (a) pyrene | 5/4/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Benzo (a) pyrene | 5/4/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | Benzo (b) fluoranthene | 5/4/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Benzo (b) fluoranthene | 5/4/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | Benzo (g,h,i) perylene | 5/4/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Benzo (g,h,i) perylene | 5/4/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | Benzo(a)anthracene | 5/4/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Benzo(a)anthracene | 5/4/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | Benzo(k)fluoranthene | 5/4/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7962MB | | LB | 2515707 | Benzo(k)fluoranthene | 5/4/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7962MB | | LB | 2515725 | Chrysene | 5/4/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Chrysene | 5/4/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515725 | Dibenzo (a,h) anthracene | 5/4/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515707 | Dibenzo (a,h) anthracene | 5/4/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515725 | Fluoranthene | 5/4/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7962MB | | LB | 2515707 | Fluoranthene | 5/4/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7962MB | | LB | 2515725 | Fluorene | 5/4/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515707 | Fluorene | 5/4/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515725 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 0.034 | 0.02 | 0.2 | J | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7962MB | WATER | LB | 2515707 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 0.034 | 0.02 | 0.2 | J | UG/L |
| | 7962MB | | LB | 2515725 | Naphthalene | 5/4/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7962MB | | LB | 2515707 | Naphthalene | 5/4/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7962MB | | LB | 2515725 | Phenanthrene | 5/4/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515707 | Phenanthrene | 5/4/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7962MB | | LB | 2515725 | Pyrene | 5/4/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7962MB | | LB | 2515707 | Pyrene | 5/4/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | 1-Methylnaphthalene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7971MB | | LB | 2515736 | 2-Methylnaphthalene | 5/4/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7971MB | | LB | 2515736 | Acenaphthene | 5/4/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7971MB | | LB | 2515736 | Acenaphthylene | 5/4/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7971MB | | LB | 2515736 | Anthracene | 5/4/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7971MB | | LB | 2515736 | Benzo (a) pyrene | 5/4/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Benzo (b) fluoranthene | 5/4/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Benzo (g,h,i) perylene | 5/4/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Benzo(a)anthracene | 5/4/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Benzo(k)fluoranthene | 5/4/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7971MB | | LB | 2515736 | Chrysene | 5/4/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Dibenzo (a,h) anthracene | 5/4/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7971MB | | LB | 2515736 | Fluoranthene | 5/4/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7971MB | | LB | 2515736 | Fluorene | 5/4/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7971MB | | LB | 2515736 | Indeno(1,2,3-cd)pyrene | 5/4/2010 | 0.2 | 0.02 | 0.2 | U | UG/L |
| | 7971MB | | LB | 2515736 | Naphthalene | 5/4/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7971MB | | LB | 2515736 | Phenanthrene | 5/4/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7971MB | | LB | 2515736 | Pyrene | 5/4/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 7995MB | | LB | 2515752 | 1-Methylnaphthalene | 5/7/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7995MB | | LB | 2515752 | 2-Methylnaphthalene | 5/7/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 7995MB | | LB | 2515752 | Acenaphthene | 5/7/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 7995MB | | LB | 2515752 | Acenaphthylene | 5/7/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 7995MB | | LB | 2515752 | Anthracene | 5/7/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 7995MB | | LB | 2515752 | Benzo (a) pyrene | 5/7/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 7995MB | | LB | 2515752 | Benzo (b) fluoranthene | 5/7/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 7995MB | | LB | 2515752 | Benzo (g,h,i) perylene | 5/7/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 7995MB | WATER | LB | 2515752 | Benzo(a)anthracene | 5/7/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 7995MB | | LB | 2515752 | Benzo(k)fluoranthene | 5/7/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 7995MB | | LB | 2515752 | Chrysene | 5/7/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 7995MB | | LB | 2515752 | Dibenzo (a,h) anthracene | 5/7/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 7995MB | | LB | 2515752 | Fluoranthene | 5/7/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 7995MB | | LB | 2515752 | Fluorene | 5/7/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 7995MB | | LB | 2515752 | Indeno(1,2,3-cd)pyrene | 5/7/2010 | 0.036 | 0.02 | 0.2 | J | UG/L |
| | 7995MB | | LB | 2515752 | Naphthalene | 5/7/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 7995MB | | LB | 2515752 | Phenanthrene | 5/7/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 7995MB | | LB | 2515752 | Pyrene | 5/7/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | 1-Methylnaphthalene | 5/10/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8012MB | | LB | 2515786 | 1-Methylnaphthalene | 5/10/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8012MB | | LB | 2515808 | 2-Methylnaphthalene | 5/10/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 8012MB | | LB | 2515786 | 2-Methylnaphthalene | 5/10/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 8012MB | | LB | 2515786 | Acenaphthene | 5/10/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8012MB | | LB | 2515808 | Acenaphthene | 5/10/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8012MB | | LB | 2515808 | Acenaphthylene | 5/10/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 8012MB | | LB | 2515786 | Acenaphthylene | 5/10/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 8012MB | | LB | 2515808 | Anthracene | 5/10/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515786 | Anthracene | 5/10/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515786 | Benzo (a) pyrene | 5/10/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Benzo (a) pyrene | 5/10/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515786 | Benzo (b) fluoranthene | 5/10/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Benzo (b) fluoranthene | 5/10/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515786 | Benzo (g,h,i) perylene | 5/10/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Benzo (g,h,i) perylene | 5/10/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Benzo(a)anthracene | 5/10/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515786 | Benzo(a)anthracene | 5/10/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Benzo(k)fluoranthene | 5/10/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 8012MB | | LB | 2515786 | Benzo(k)fluoranthene | 5/10/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 8012MB | | LB | 2515808 | Chrysene | 5/10/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515786 | Chrysene | 5/10/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515786 | Dibenzo (a,h) anthracene | 5/10/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 8012MB | WATER | LB | 2515808 | Dibenzo (a,h) anthracene | 5/10/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515786 | Fluoranthene | 5/10/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 8012MB | | LB | 2515808 | Fluoranthene | 5/10/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 8012MB | | LB | 2515786 | Fluorene | 5/10/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515808 | Fluorene | 5/10/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515808 | Indeno(1,2,3-cd)pyrene | 5/10/2010 | 0.03 | 0.02 | 0.2 | J | UG/L |
| | 8012MB | | LB | 2515786 | Indeno(1,2,3-cd)pyrene | 5/10/2010 | 0.03 | 0.02 | 0.2 | J | UG/L |
| | 8012MB | | LB | 2515808 | Naphthalene | 5/10/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 8012MB | | LB | 2515786 | Naphthalene | 5/10/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 8012MB | | LB | 2515808 | Phenanthrene | 5/10/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515786 | Phenanthrene | 5/10/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 8012MB | | LB | 2515786 | Pyrene | 5/10/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 8012MB | | LB | 2515808 | Pyrene | 5/10/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | 1-Methylnaphthalene | 6/16/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8274MB | | LB | 2516238 | 2-Methylnaphthalene | 6/16/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 8274MB | | LB | 2516238 | Acenaphthene | 6/16/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8274MB | | LB | 2516238 | Acenaphthylene | 6/16/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 8274MB | | LB | 2516238 | Anthracene | 6/16/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 8274MB | | LB | 2516238 | Benzo (a) pyrene | 6/16/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | Benzo (b) fluoranthene | 6/16/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | Benzo (g,h,i) perylene | 6/16/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | Benzo(a)anthracene | 6/16/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | Benzo(k)fluoranthene | 6/16/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 8274MB | | LB | 2516238 | Chrysene | 6/16/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 8274MB | | LB | 2516238 | Dibenzo (a,h) anthracene | 6/16/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 8274MB | | LB | 2516238 | Fluoranthene | 6/16/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 8274MB | | LB | 2516238 | Fluorene | 6/16/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 8274MB | | LB | 2516238 | Indeno(1,2,3-cd)pyrene | 6/16/2010 | 0.036 | 0.02 | 0.2 | J | UG/L |
| | 8274MB | | LB | 2516238 | Naphthalene | 6/16/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 8274MB | | LB | 2516238 | Phenanthrene | 6/16/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 8274MB | | LB | 2516238 | Pyrene | 6/16/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | 1-Methylnaphthalene | 6/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8306MB | | LB | 2516259 | 2-Methylnaphthalene | 6/22/2010 | 1 | 0.068 | 1 | U | UG/L |

# Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 8306MB | WATER | LB | 2516259 | Acenaphthene | 6/22/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8306MB | | LB | 2516259 | Acenaphthylene | 6/22/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 8306MB | | LB | 2516259 | Anthracene | 6/22/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 8306MB | | LB | 2516259 | Benzo (a) pyrene | 6/22/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | Benzo (b) fluoranthene | 6/22/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | Benzo (g,h,i) perylene | 6/22/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | Benzo(a)anthracene | 6/22/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | Benzo(k)fluoranthene | 6/22/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 8306MB | | LB | 2516259 | Chrysene | 6/22/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 8306MB | | LB | 2516259 | Dibenzo (a,h) anthracene | 6/22/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 8306MB | | LB | 2516259 | Fluoranthene | 6/22/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 8306MB | | LB | 2516259 | Fluorene | 6/22/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 8306MB | | LB | 2516259 | Indeno(1,2,3-cd)pyrene | 6/22/2010 | 0.026 | 0.02 | 0.2 | J | UG/L |
| | 8306MB | | LB | 2516259 | Naphthalene | 6/22/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 8306MB | | LB | 2516259 | Phenanthrene | 6/22/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |
| | 8306MB | | LB | 2516259 | Pyrene | 6/22/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | 1-Methylnaphthalene | 6/24/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8315MB | | LB | 2516299 | 2-Methylnaphthalene | 6/24/2010 | 1 | 0.068 | 1 | U | UG/L |
| | 8315MB | | LB | 2516299 | Acenaphthene | 6/24/2010 | 1 | 0.033 | 1 | U | UG/L |
| | 8315MB | | LB | 2516299 | Acenaphthylene | 6/24/2010 | 1 | 0.028 | 1 | U | UG/L |
| | 8315MB | | LB | 2516299 | Anthracene | 6/24/2010 | 0.3 | 0.012 | 0.3 | U | UG/L |
| | 8315MB | | LB | 2516299 | Benzo (a) pyrene | 6/24/2010 | 0.2 | 0.033 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | Benzo (b) fluoranthene | 6/24/2010 | 0.2 | 0.032 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | Benzo (g,h,i) perylene | 6/24/2010 | 0.2 | 0.029 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | Benzo(a)anthracene | 6/24/2010 | 0.2 | 0.03 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | Benzo(k)fluoranthene | 6/24/2010 | 0.15 | 0.074 | 0.15 | U | UG/L |
| | 8315MB | | LB | 2516299 | Chrysene | 6/24/2010 | 0.2 | 0.087 | 0.2 | U | UG/L |
| | 8315MB | | LB | 2516299 | Dibenzo (a,h) anthracene | 6/24/2010 | 0.3 | 0.036 | 0.3 | U | UG/L |
| | 8315MB | | LB | 2516299 | Fluoranthene | 6/24/2010 | 0.4 | 0.035 | 0.4 | U | UG/L |
| | 8315MB | | LB | 2516299 | Fluorene | 6/24/2010 | 0.3 | 0.019 | 0.3 | U | UG/L |
| | 8315MB | | LB | 2516299 | Indeno(1,2,3-cd)pyrene | 6/24/2010 | 0.025 | 0.02 | 0.2 | J | UG/L |
| | 8315MB | | LB | 2516299 | Naphthalene | 6/24/2010 | 1 | 0.042 | 1 | U | UG/L |
| | 8315MB | | LB | 2516299 | Phenanthrene | 6/24/2010 | 0.3 | 0.039 | 0.3 | U | UG/L |

## Table B-6. Summary of Equipment, Trip, and Method Blank Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | | | |
| | 8315MB | WATER | LB | 2516299 | Pyrene | 6/24/2010 | 0.2 | 0.038 | 0.2 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 1-Methylnaphthalene | 4/27/2010 | 0.18 | 0.035 | 1.1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | 2-Methylnaphthalene | 4/27/2010 | 0.2 | 0.073 | 1.1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Acenaphthene | 4/27/2010 | 0.14 | 0.035 | 1.1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Acenaphthylene | 4/27/2010 | 1.1 | 0.03 | 1.1 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Anthracene | 4/27/2010 | 0.32 | 0.013 | 0.32 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (a) pyrene | 4/27/2010 | 0.22 | 0.035 | 0.22 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (b) fluoranthene | 4/27/2010 | 0.22 | 0.034 | 0.22 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo (g,h,i) perylene | 4/27/2010 | 0.22 | 0.031 | 0.22 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo(a)anthracene | 4/27/2010 | 0.22 | 0.032 | 0.22 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Benzo(k)fluoranthene | 4/27/2010 | 0.16 | 0.08 | 0.16 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Chrysene | 4/27/2010 | 0.22 | 0.094 | 0.22 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Dibenzo (a,h) anthracene | 4/27/2010 | 0.32 | 0.039 | 0.32 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Fluoranthene | 4/27/2010 | 0.43 | 0.038 | 0.43 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Fluorene | 4/27/2010 | 0.32 | 0.02 | 0.32 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Indeno(1,2,3-cd)pyrene | 4/27/2010 | 0.032 | 0.022 | 0.22 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Naphthalene | 4/27/2010 | 0.32 | 0.045 | 1.1 | J | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Phenanthrene | 4/27/2010 | 0.32 | 0.042 | 0.32 | U | UG/L |
| | ST106-EB-10618-21042010 | | EB | 2515619 | Pyrene | 4/27/2010 | 0.22 | 0.041 | 0.22 | U | UG/L |

*** Blank Type**

LB = Method Blank
EB = Equipment Blank
TB = Trip Blank

Qualifier Description
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL).
J = The analyte was positively identified but the associated numerical value is below the reporting limit (RL).

# Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | |
| | 041710LCS | WATER | 2515580 | Chloride | 102.5 | 75 | 125 |
| | 041710LCS | | 2515580 | Nitrate | 98 | 90 | 110 |
| | 041710LCS | | 2515580 | Sulfate | 101.2 | 75 | 125 |
| | 041710LCSD | | 2515580 | Chloride | 102.5 | 75 | 125 |
| | 041710LCSD | | 2515580 | Nitrate | 98 | 90 | 110 |
| | 041710LCSD | | 2515580 | Sulfate | 102.5 | 75 | 125 |
| | 042010LCS | | 2515592 | Chloride | 101.2 | 75 | 125 |
| | 042010LCS | | 2515592 | Nitrate | 96 | 90 | 110 |
| | 042010LCS | | 2515592 | Sulfate | 100 | 75 | 125 |
| | 042010LCSD | | 2515592 | Chloride | 100 | 75 | 125 |
| | 042010LCSD | | 2515592 | Nitrate | 96 | 90 | 110 |
| | 042010LCSD | | 2515592 | Sulfate | 100 | 75 | 125 |
| | 042110LCS | | 2515603 | Chloride | 102.5 | 75 | 125 |
| | 042110LCS | | 2515603 | Nitrate | 98 | 90 | 110 |
| | 042110LCS | | 2515603 | Sulfate | 101.2 | 75 | 125 |
| | 042110LCSD | | 2515603 | Chloride | 102.5 | 75 | 125 |
| | 042110LCSD | | 2515603 | Nitrate | 98 | 90 | 110 |
| | 042110LCSD | | 2515603 | Sulfate | 102.5 | 75 | 125 |
| | 042210LCS | | 2515619 | Chloride | 101.2 | 75 | 125 |
| | 042210LCS | | 2515619 | Nitrate | 97 | 90 | 110 |
| | 042210LCS | | 2515619 | Sulfate | 100 | 75 | 125 |
| | 042210LCSD | | 2515619 | Chloride | 102.5 | 75 | 125 |
| | 042210LCSD | | 2515619 | Nitrate | 97 | 90 | 110 |
| | 042210LCSD | | 2515619 | Sulfate | 101.2 | 75 | 125 |
| | 042310LCS | | 2515638 | Chloride | 100 | 75 | 125 |
| | 042310LCS | | 2515638 | Nitrate | 94 | 90 | 110 |
| | 042310LCS | | 2515638 | Sulfate | 98.8 | 75 | 125 |
| | 042310LCSD | | 2515638 | Chloride | 100 | 75 | 125 |
| | 042310LCSD | | 2515638 | Nitrate | 94 | 90 | 110 |
| | 042310LCSD | | 2515638 | Sulfate | 98.8 | 75 | 125 |
| | 042710LCS | | 2515679 | Chloride | 101.2 | 75 | 125 |
| | 042710LCS | | 2515679 | Nitrate | 97 | 90 | 110 |
| | 042710LCS | | 2515679 | Sulfate | 102.5 | 75 | 125 |
| | 042710LCSD | | 2515679 | Chloride | 102.5 | 75 | 125 |
| | 042710LCSD | | 2515679 | Nitrate | 98 | 90 | 110 |
| | 042710LCSD | | 2515679 | Sulfate | 102.5 | 75 | 125 |
| | 042810LCS | | 2515691 | Chloride | 102.5 | 75 | 125 |
| | 042810LCS | | 2515690 | Chloride | 102.5 | 75 | 125 |
| | 042810LCS | | 2515690 | Nitrate | 98 | 90 | 110 |
| | 042810LCS | | 2515691 | Nitrate | 98 | 90 | 110 |
| | 042810LCS | | 2515690 | Sulfate | 102.5 | 75 | 125 |
| | 042810LCS | | 2515691 | Sulfate | 102.5 | 75 | 125 |

# Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | |
| | 042810LCSD | WATER | 2515690 | Chloride | 102.5 | 75 | 125 |
| | 042810LCSD | | 2515691 | Chloride | 102.5 | 75 | 125 |
| | 042810LCSD | | 2515691 | Nitrate | 99 | 90 | 110 |
| | 042810LCSD | | 2515690 | Nitrate | 99 | 90 | 110 |
| | 042810LCSD | | 2515690 | Sulfate | 102.5 | 75 | 125 |
| | 042810LCSD | | 2515691 | Sulfate | 102.5 | 75 | 125 |
| | 042910LCS | | 2515707 | Chloride | 102.5 | 75 | 125 |
| | 042910LCS | | 2515707 | Nitrate | 100 | 90 | 110 |
| | 042910LCS | | 2515707 | Sulfate | 103.8 | 75 | 125 |
| | 042910LCSD | | 2515707 | Chloride | 102.5 | 75 | 125 |
| | 042910LCSD | | 2515707 | Nitrate | 99 | 90 | 110 |
| | 042910LCSD | | 2515707 | Sulfate | 103.8 | 75 | 125 |
| | 043010LCS | | 2515725 | Chloride | 98.8 | 75 | 125 |
| | 043010LCS | | 2515725 | Nitrate | 95 | 90 | 110 |
| | 043010LCS | | 2515725 | Sulfate | 98.8 | 75 | 125 |
| | 043010LCSD | | 2515725 | Chloride | 100 | 75 | 125 |
| | 043010LCSD | | 2515725 | Nitrate | 95 | 90 | 110 |
| | 043010LCSD | | 2515725 | Sulfate | 98.8 | 75 | 125 |
| | 050110LCS1 | | 2515736 | Chloride | 101.2 | 75 | 125 |
| | 050110LCS1 | | 2515736 | Nitrate | 97 | 90 | 110 |
| | 050110LCS1 | | 2515736 | Sulfate | 101.2 | 75 | 125 |
| | 050110LCSD1 | | 2515736 | Chloride | 101.2 | 75 | 125 |
| | 050110LCSD1 | | 2515736 | Nitrate | 97 | 90 | 110 |
| | 050110LCSD1 | | 2515736 | Sulfate | 103.8 | 75 | 125 |
| | 050310LCS1 | | 2515725 | Chloride | 105 | 75 | 125 |
| | 050310LCS1 | | 2515725 | Nitrate | 100 | 90 | 110 |
| | 050310LCS1 | | 2515725 | Sulfate | 105 | 75 | 125 |
| | 050310LCSD1 | | 2515725 | Chloride | 105 | 75 | 125 |
| | 050310LCSD1 | | 2515725 | Nitrate | 100 | 90 | 110 |
| | 050310LCSD1 | | 2515725 | Sulfate | 105 | 75 | 125 |
| | 050410LCS | | 2515752 | Chloride | 98.8 | 75 | 125 |
| | 050410LCS | | 2515752 | Nitrate | 94 | 90 | 110 |
| | 050410LCS | | 2515752 | Sulfate | 97.5 | 75 | 125 |
| | 050410LCSD | | 2515752 | Chloride | 97.5 | 75 | 125 |
| | 050410LCSD | | 2515752 | Nitrate | 94 | 90 | 110 |
| | 050410LCSD | | 2515752 | Sulfate | 97.5 | 75 | 125 |
| | 050510LCS1 | | 2515752 | Chloride | 98.8 | 75 | 125 |
| | 050510LCS1 | | 2515752 | Nitrate | 94 | 90 | 110 |
| | 050510LCS1 | | 2515752 | Sulfate | 100 | 75 | 125 |
| | 050510LCSD1 | | 2515752 | Chloride | 98.8 | 75 | 125 |
| | 050510LCSD1 | | 2515752 | Nitrate | 94 | 90 | 110 |
| | 050510LCSD1 | | 2515752 | Sulfate | 100 | 75 | 125 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | |
| | 050610LCS | WATER | 2515786 | Chloride | 105 | 75 | 125 |
| | 050610LCS | | 2515786 | Nitrate | 96 | 90 | 110 |
| | 050610LCS | | 2515786 | Sulfate | 100 | 75 | 125 |
| | 050610LCSD | | 2515786 | Chloride | 105 | 75 | 125 |
| | 050610LCSD | | 2515786 | Nitrate | 96 | 90 | 110 |
| | 050610LCSD | | 2515786 | Sulfate | 100 | 75 | 125 |
| | 050710LCS | | 2515808 | Chloride | 105 | 75 | 125 |
| | 050710LCS | | 2515807 | Chloride | 105 | 75 | 125 |
| | 050710LCS | | 2515808 | Nitrate | 98 | 90 | 110 |
| | 050710LCS | | 2515807 | Nitrate | 98 | 90 | 110 |
| | 050710LCS | | 2515808 | Sulfate | 102.5 | 75 | 125 |
| | 050710LCS | | 2515807 | Sulfate | 102.5 | 75 | 125 |
| | 050710LCSD | | 2515808 | Chloride | 103.8 | 75 | 125 |
| | 050710LCSD | | 2515807 | Chloride | 103.8 | 75 | 125 |
| | 050710LCSD | | 2515807 | Nitrate | 99 | 90 | 110 |
| | 050710LCSD | | 2515808 | Nitrate | 99 | 90 | 110 |
| | 050710LCSD | | 2515807 | Sulfate | 103.8 | 75 | 125 |
| | 050710LCSD | | 2515808 | Sulfate | 103.8 | 75 | 125 |
| | 061510LCS | | 2516238 | Chloride | 101.2 | 75 | 125 |
| | 061510LCS | | 2516238 | Nitrate | 100 | 90 | 110 |
| | 061510LCS | | 2516238 | Sulfate | 106.2 | 75 | 125 |
| | 061510LCSD | | 2516238 | Chloride | 102.5 | 75 | 125 |
| | 061510LCSD | | 2516238 | Nitrate | 100 | 90 | 110 |
| | 061510LCSD | | 2516238 | Sulfate | 105 | 75 | 125 |
| | 061710LCS | | 2516259 | Chloride | 103.8 | 75 | 125 |
| | 061710LCS | | 2516259 | Nitrate | 100 | 90 | 110 |
| | 061710LCS | | 2516259 | Sulfate | 107.5 | 75 | 125 |
| | 061710LCSD | | 2516259 | Chloride | 105 | 75 | 125 |
| | 061710LCSD | | 2516259 | Nitrate | 100 | 90 | 110 |
| | 061710LCSD | | 2516259 | Sulfate | 106.2 | 75 | 125 |
| | 062110LCS | | 2516259 | Chloride | 102.5 | 75 | 125 |
| | 062110LCS | | 2516259 | Nitrate | 100 | 90 | 110 |
| | 062110LCS | | 2516259 | Sulfate | 110 | 75 | 125 |
| | 062110LCSD | | 2516259 | Chloride | 101.2 | 75 | 125 |
| | 062110LCSD | | 2516259 | Nitrate | 100 | 90 | 110 |
| | 062110LCSD | | 2516259 | Sulfate | 105 | 75 | 125 |
| | 062210LCS | | 2516299 | Chloride | 102.5 | 75 | 125 |
| | 062210LCS | | 2516299 | Nitrate | 100 | 90 | 110 |
| | 062210LCS | | 2516299 | Sulfate | 102.5 | 75 | 125 |
| | 062210LCSD | | 2516299 | Chloride | 102.5 | 75 | 125 |
| | 062210LCSD | | 2516299 | Nitrate | 100 | 90 | 110 |
| | 062210LCSD | | 2516299 | Sulfate | 102.5 | 75 | 125 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | |
| | 65606 | WATER | 2515619 | Alkalinity, Bicarbonate | 96 | 75 | 125 |
| | 65606 | | 2515603 | Alkalinity, Bicarbonate | 96 | 75 | 125 |
| | 65606 | | 2515580 | Alkalinity, Bicarbonate | 96 | 75 | 125 |
| | 65606 | | 2515592 | Alkalinity, Bicarbonate | 96 | 75 | 125 |
| | 65606 | | 2515619 | Alkalinity, Carbonate | 96 | 75 | 125 |
| | 65606 | | 2515619 | Alkalinity, Total | 96 | 75 | 125 |
| | 65606 | | 2515592 | Alkalinity, Total | 96 | 75 | 125 |
| | 65606 | | 2515580 | Alkalinity, Total | 96 | 75 | 125 |
| | 65606 | | 2515603 | Alkalinity, Total | 96 | 75 | 125 |
| | 65606 | | 2515619 | Carbonate Alkalinity | 96 | 75 | 125 |
| | 65607 | | 2515580 | Alkalinity, Bicarbonate | 97 | 75 | 125 |
| | 65607 | | 2515603 | Alkalinity, Bicarbonate | 97 | 75 | 125 |
| | 65607 | | 2515619 | Alkalinity, Bicarbonate | 97 | 75 | 125 |
| | 65607 | | 2515592 | Alkalinity, Bicarbonate | 97 | 75 | 125 |
| | 65607 | | 2515619 | Alkalinity, Carbonate | 97 | 75 | 125 |
| | 65607 | | 2515580 | Alkalinity, Total | 97 | 75 | 125 |
| | 65607 | | 2515603 | Alkalinity, Total | 97 | 75 | 125 |
| | 65607 | | 2515592 | Alkalinity, Total | 97 | 75 | 125 |
| | 65607 | | 2515619 | Alkalinity, Total | 97 | 75 | 125 |
| | 65607 | | 2515619 | Carbonate Alkalinity | 97 | 75 | 125 |
| | 67194 | | 2515638 | Alkalinity, Bicarbonate | 98 | 75 | 125 |
| | 67194 | | 2515638 | Alkalinity, Total | 98 | 75 | 125 |
| | 67195 | | 2515638 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 67195 | | 2515638 | Alkalinity, Total | 101 | 75 | 125 |
| | 68379 | | 2515707 | Alkalinity, Bicarbonate | 100 | 75 | 125 |
| | 68379 | | 2515690 | Alkalinity, Bicarbonate | 100 | 75 | 125 |
| | 68379 | | 2515691 | Alkalinity, Bicarbonate | 100 | 75 | 125 |
| | 68379 | | 2515707 | Alkalinity, Total | 100 | 75 | 125 |
| | 68379 | | 2515691 | Alkalinity, Total | 100 | 75 | 125 |
| | 68379 | | 2515690 | Alkalinity, Total | 100 | 75 | 125 |
| | 68380 | | 2515691 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 68380 | | 2515690 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 68380 | | 2515707 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 68380 | | 2515691 | Alkalinity, Total | 101 | 75 | 125 |
| | 68380 | | 2515690 | Alkalinity, Total | 101 | 75 | 125 |
| | 68380 | | 2515707 | Alkalinity, Total | 101 | 75 | 125 |
| | 68835 | | 2515725 | Alkalinity, Bicarbonate | 98 | 75 | 125 |
| | 68835 | | 2515736 | Alkalinity, Bicarbonate | 98 | 75 | 125 |
| | 68835 | | 2515725 | Alkalinity, Total | 98 | 75 | 125 |
| | 68835 | | 2515736 | Alkalinity, Total | 98 | 75 | 125 |
| | 68836 | | 2515725 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 68836 | | 2515736 | Alkalinity, Bicarbonate | 101 | 75 | 125 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **E310.1** | | | | | | | |
| | 68836 | WATER | 2515725 | Alkalinity, Total | 101 | 75 | 125 |
| | 68836 | | 2515736 | Alkalinity, Total | 101 | 75 | 125 |
| | 76386 | | 2515807 | Alkalinity, Bicarbonate | 96.2 | 75 | 125 |
| | 76386 | | 2515752 | Alkalinity, Bicarbonate | 96.2 | 75 | 125 |
| | 76386 | | 2515808 | Alkalinity, Bicarbonate | 96.2 | 75 | 125 |
| | 76386 | | 2515786 | Alkalinity, Bicarbonate | 96.2 | 75 | 125 |
| | 76386 | | 2515807 | Alkalinity, Total | 96.2 | 75 | 125 |
| | 76386 | | 2515752 | Alkalinity, Total | 96.2 | 75 | 125 |
| | 76386 | | 2515786 | Alkalinity, Total | 96.2 | 75 | 125 |
| | 76386 | | 2515808 | Alkalinity, Total | 96.2 | 75 | 125 |
| | 76387 | | 2515752 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 76387 | | 2515808 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 76387 | | 2515786 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 76387 | | 2515807 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 76387 | | 2515808 | Alkalinity, Total | 101 | 75 | 125 |
| | 76387 | | 2515752 | Alkalinity, Total | 101 | 75 | 125 |
| | 76387 | | 2515807 | Alkalinity, Total | 101 | 75 | 125 |
| | 76387 | | 2515786 | Alkalinity, Total | 101 | 75 | 125 |
| | 88726 | | 2516238 | Alkalinity, Bicarbonate | 88 | 75 | 125 |
| | 88726 | | 2516238 | Alkalinity, Total | 88 | 75 | 125 |
| | 88727 | | 2516238 | Alkalinity, Bicarbonate | 93 | 75 | 125 |
| | 88727 | | 2516238 | Alkalinity, Total | 93 | 75 | 125 |
| | 89713 | | 2516259 | Alkalinity, Bicarbonate | 105.6 | 75 | 125 |
| | 89713 | | 2516259 | Alkalinity, Total | 105.6 | 75 | 125 |
| | 89714 | | 2516259 | Alkalinity, Bicarbonate | 109.8 | 75 | 125 |
| | 89714 | | 2516259 | Alkalinity, Total | 109.8 | 75 | 125 |
| | 90938 | | 2516299 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 90938 | | 2516299 | Alkalinity, Total | 101 | 75 | 125 |
| | 90939 | | 2516299 | Alkalinity, Bicarbonate | 101 | 75 | 125 |
| | 90939 | | 2516299 | Alkalinity, Total | 101 | 75 | 125 |
| **SW6010B** | | | | | | | |
| | 29541LCS | WATER | 2515580 | Calcium | 101 | 90 | 111 |
| | 29541LCS | | 2515580 | Iron | 99.6 | 75 | 125 |
| | 29541LCS | | 2515580 | Lead | 100.8 | 89 | 110 |
| | 29541LCS | | 2515580 | Magnesium | 101 | 90 | 113 |
| | 29541LCS | | 2515580 | Manganese | 100 | 75 | 125 |
| | 29541LCS | | 2515580 | Potassium | 104.8 | 89 | 114 |
| | 29541LCS | | 2515580 | Sodium | 100.8 | 90 | 117 |
| | 29542LCSD | | 2515580 | Calcium | 101.6 | 90 | 111 |
| | 29542LCSD | | 2515580 | Iron | 100 | 75 | 125 |
| | 29542LCSD | | 2515580 | Lead | 101.6 | 89 | 110 |
| | 29542LCSD | | 2515580 | Magnesium | 102.6 | 90 | 113 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 29542LCSD | WATER | 2515580 | Manganese | 101 | 75 | 125 |
| | 29542LCSD | | 2515580 | Potassium | 106 | 89 | 114 |
| | 29542LCSD | | 2515580 | Sodium | 100.2 | 90 | 117 |
| | 29754LCS | | 2515592 | Calcium | 101.6 | 90 | 111 |
| | 29754LCS | | 2515592 | Iron | 101 | 75 | 125 |
| | 29754LCS | | 2515592 | Lead | 98.4 | 89 | 110 |
| | 29754LCS | | 2515592 | Magnesium | 103.2 | 90 | 113 |
| | 29754LCS | | 2515592 | Manganese | 102 | 75 | 125 |
| | 29754LCS | | 2515592 | Potassium | 106.4 | 89 | 114 |
| | 29754LCS | | 2515592 | Sodium | 103.6 | 90 | 117 |
| | 29755LCSD | | 2515592 | Calcium | 101.4 | 90 | 111 |
| | 29755LCSD | | 2515592 | Iron | 100 | 75 | 125 |
| | 29755LCSD | | 2515592 | Lead | 98.4 | 89 | 110 |
| | 29755LCSD | | 2515592 | Magnesium | 103.8 | 90 | 113 |
| | 29755LCSD | | 2515592 | Manganese | 102 | 75 | 125 |
| | 29755LCSD | | 2515592 | Potassium | 104.8 | 89 | 114 |
| | 29755LCSD | | 2515592 | Sodium | 102.2 | 90 | 117 |
| | 29945LCS | | 2515603 | Calcium | 99.2 | 90 | 111 |
| | 29945LCS | | 2515603 | Iron | 99.2 | 75 | 125 |
| | 29945LCS | | 2515603 | Lead | 100.6 | 89 | 110 |
| | 29945LCS | | 2515603 | Magnesium | 99.4 | 90 | 113 |
| | 29945LCS | | 2515603 | Manganese | 99.2 | 75 | 125 |
| | 29945LCS | | 2515603 | Potassium | 103.4 | 89 | 114 |
| | 29945LCS | | 2515603 | Sodium | 97.8 | 90 | 117 |
| | 29946LCSD | | 2515603 | Calcium | 100.8 | 90 | 111 |
| | 29946LCSD | | 2515603 | Iron | 98 | 75 | 125 |
| | 29946LCSD | | 2515603 | Lead | 100.6 | 89 | 110 |
| | 29946LCSD | | 2515603 | Magnesium | 102.4 | 90 | 113 |
| | 29946LCSD | | 2515603 | Manganese | 98.4 | 75 | 125 |
| | 29946LCSD | | 2515603 | Potassium | 105 | 89 | 114 |
| | 29946LCSD | | 2515603 | Sodium | 98.4 | 90 | 117 |
| | 30374LCS | | 2515619 | Iron | 101.8 | 75 | 125 |
| | 30374LCS | | 2515619 | Lead | 101.2 | 89 | 110 |
| | 30374LCS | | 2515619 | Manganese | 100.4 | 75 | 125 |
| | 30375LCSD | | 2515619 | Iron | 103 | 75 | 125 |
| | 30375LCSD | | 2515619 | Lead | 102.8 | 89 | 110 |
| | 30375LCSD | | 2515619 | Manganese | 101.8 | 75 | 125 |
| | 30456LCS | | 2515638 | Calcium | 98.2 | 90 | 111 |
| | 30456LCS | | 2515638 | Iron | 99.2 | 75 | 125 |
| | 30456LCS | | 2515638 | Lead | 97.6 | 89 | 110 |
| | 30456LCS | | 2515638 | Magnesium | 99.4 | 90 | 113 |
| | 30456LCS | | 2515638 | Manganese | 105.2 | 75 | 125 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 30456LCS | WATER | 2515638 | Potassium | 101.4 | 89 | 114 |
| | 30456LCS | | 2515638 | Sodium | 99 | 90 | 117 |
| | 30457LCSD | | 2515638 | Calcium | 100.8 | 90 | 111 |
| | 30457LCSD | | 2515638 | Iron | 98.8 | 75 | 125 |
| | 30457LCSD | | 2515638 | Lead | 100 | 89 | 110 |
| | 30457LCSD | | 2515638 | Magnesium | 102 | 90 | 113 |
| | 30457LCSD | | 2515638 | Manganese | 102.4 | 75 | 125 |
| | 30457LCSD | | 2515638 | Potassium | 103.4 | 89 | 114 |
| | 30457LCSD | | 2515638 | Sodium | 102.4 | 90 | 117 |
| | 30847LCS | | 2515679 | Calcium | 102.6 | 90 | 111 |
| | 30847LCS | | 2515679 | Iron | 103.6 | 75 | 125 |
| | 30847LCS | | 2515679 | Lead | 103.2 | 89 | 110 |
| | 30847LCS | | 2515679 | Magnesium | 103.4 | 90 | 113 |
| | 30847LCS | | 2515679 | Manganese | 103.8 | 75 | 125 |
| | 30847LCS | | 2515679 | Sodium | 108 | 90 | 117 |
| | 30847LCSR1 | | 2515679 | Potassium | 106.8 | 89 | 114 |
| | 30848LCSD | | 2515679 | Calcium | 101.6 | 90 | 111 |
| | 30848LCSD | | 2515679 | Iron | 102.6 | 75 | 125 |
| | 30848LCSD | | 2515679 | Lead | 104 | 89 | 110 |
| | 30848LCSD | | 2515679 | Magnesium | 103 | 90 | 113 |
| | 30848LCSD | | 2515679 | Manganese | 103.4 | 75 | 125 |
| | 30848LCSD | | 2515679 | Sodium | 107.6 | 90 | 117 |
| | 30848LCSDR1 | | 2515679 | Potassium | 108.4 | 89 | 114 |
| | 31213LCS | | 2515691 | Calcium | 101.8 | 90 | 111 |
| | 31213LCS | | 2515707 | Calcium | 101.8 | 90 | 111 |
| | 31213LCS | | 2515690 | Calcium | 101.8 | 90 | 111 |
| | 31213LCS | | 2515707 | Iron | 101.6 | 75 | 125 |
| | 31213LCS | | 2515690 | Iron | 101.6 | 75 | 125 |
| | 31213LCS | | 2515691 | Iron | 101.6 | 75 | 125 |
| | 31213LCS | | 2515707 | Lead | 103.2 | 89 | 110 |
| | 31213LCS | | 2515691 | Lead | 103.2 | 89 | 110 |
| | 31213LCS | | 2515690 | Lead | 103.2 | 89 | 110 |
| | 31213LCS | | 2515690 | Magnesium | 104.8 | 90 | 113 |
| | 31213LCS | | 2515707 | Magnesium | 104.8 | 90 | 113 |
| | 31213LCS | | 2515691 | Magnesium | 104.8 | 90 | 113 |
| | 31213LCS | | 2515707 | Manganese | 103.2 | 75 | 125 |
| | 31213LCS | | 2515690 | Manganese | 103.2 | 75 | 125 |
| | 31213LCS | | 2515691 | Manganese | 103.2 | 75 | 125 |
| | 31213LCS | | 2515707 | Potassium | 113.2 | 89 | 114 |
| | 31213LCS | | 2515691 | Potassium | 113.2 | 89 | 114 |
| | 31213LCS | | 2515690 | Potassium | 113.2 | 89 | 114 |
| | 31213LCS | | 2515690 | Sodium | 109 | 90 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 31213LCS | WATER | 2515691 | Sodium | 109 | 90 | 117 |
| | 31213LCS | | 2515707 | Sodium | 109 | 90 | 117 |
| | 31214LCSD | | 2515707 | Calcium | 102.4 | 90 | 111 |
| | 31214LCSD | | 2515690 | Calcium | 102.4 | 90 | 111 |
| | 31214LCSD | | 2515691 | Calcium | 102.4 | 90 | 111 |
| | 31214LCSD | | 2515690 | Iron | 102.6 | 75 | 125 |
| | 31214LCSD | | 2515691 | Iron | 102.6 | 75 | 125 |
| | 31214LCSD | | 2515707 | Iron | 102.6 | 75 | 125 |
| | 31214LCSD | | 2515691 | Lead | 103 | 89 | 110 |
| | 31214LCSD | | 2515707 | Lead | 103 | 89 | 110 |
| | 31214LCSD | | 2515690 | Lead | 103 | 89 | 110 |
| | 31214LCSD | | 2515690 | Magnesium | 106.8 | 90 | 113 |
| | 31214LCSD | | 2515691 | Magnesium | 106.8 | 90 | 113 |
| | 31214LCSD | | 2515707 | Magnesium | 106.8 | 90 | 113 |
| | 31214LCSD | | 2515690 | Manganese | 103 | 75 | 125 |
| | 31214LCSD | | 2515707 | Manganese | 103 | 75 | 125 |
| | 31214LCSD | | 2515691 | Manganese | 103 | 75 | 125 |
| | 31214LCSD | | 2515691 | **Potassium** | **114.8** | **89** | **114** |
| | 31214LCSD | | 2515690 | **Potassium** | **114.8** | **89** | **114** |
| | 31214LCSD | | 2515707 | **Potassium** | **114.8** | **89** | **114** |
| | 31214LCSD | | 2515691 | Sodium | 109.2 | 90 | 117 |
| | 31214LCSD | | 2515690 | Sodium | 109.2 | 90 | 117 |
| | 31214LCSD | | 2515707 | Sodium | 109.2 | 90 | 117 |
| | 31263LCS | | 2515725 | Calcium | 98 | 90 | 111 |
| | 31263LCS | | 2515736 | Calcium | 98 | 90 | 111 |
| | 31263LCS | | 2515725 | Iron | 98.4 | 75 | 125 |
| | 31263LCS | | 2515736 | Iron | 98.4 | 75 | 125 |
| | 31263LCS | | 2515725 | Lead | 99.2 | 89 | 110 |
| | 31263LCS | | 2515736 | Lead | 99.2 | 89 | 110 |
| | 31263LCS | | 2515725 | Magnesium | 97.4 | 90 | 113 |
| | 31263LCS | | 2515736 | Magnesium | 97.4 | 90 | 113 |
| | 31263LCS | | 2515725 | Manganese | 102.4 | 75 | 125 |
| | 31263LCS | | 2515736 | Manganese | 102.4 | 75 | 125 |
| | 31263LCS | | 2515725 | Potassium | 103.2 | 89 | 114 |
| | 31263LCS | | 2515736 | Potassium | 103.2 | 89 | 114 |
| | 31263LCS | | 2515725 | Sodium | 100.6 | 90 | 117 |
| | 31263LCS | | 2515736 | Sodium | 100.6 | 90 | 117 |
| | 31264LCSD | | 2515725 | Calcium | 98.8 | 90 | 111 |
| | 31264LCSD | | 2515736 | Calcium | 98.8 | 90 | 111 |
| | 31264LCSD | | 2515725 | Iron | 99.6 | 75 | 125 |
| | 31264LCSD | | 2515736 | Iron | 99.6 | 75 | 125 |
| | 31264LCSD | | 2515725 | Lead | 98.2 | 89 | 110 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 31264LCSD | WATER | 2515736 | Lead | 98.2 | 89 | 110 |
| | 31264LCSD | | 2515725 | Magnesium | 99.6 | 90 | 113 |
| | 31264LCSD | | 2515736 | Magnesium | 99.6 | 90 | 113 |
| | 31264LCSD | | 2515725 | Manganese | 102.6 | 75 | 125 |
| | 31264LCSD | | 2515736 | Manganese | 102.6 | 75 | 125 |
| | 31264LCSD | | 2515725 | Potassium | 103.4 | 89 | 114 |
| | 31264LCSD | | 2515736 | Potassium | 103.4 | 89 | 114 |
| | 31264LCSD | | 2515725 | Sodium | 100.2 | 90 | 117 |
| | 31264LCSD | | 2515736 | Sodium | 100.2 | 90 | 117 |
| | 31613LCS | | 2515752 | Calcium | 101.2 | 90 | 111 |
| | 31613LCS | | 2515752 | Iron | 102.4 | 75 | 125 |
| | 31613LCS | | 2515752 | Lead | 104.8 | 89 | 110 |
| | 31613LCS | | 2515752 | Magnesium | 104 | 90 | 113 |
| | 31613LCS | | 2515752 | Manganese | 102.8 | 75 | 125 |
| | 31613LCS | | 2515752 | Potassium | 106.4 | 89 | 114 |
| | 31613LCS | | 2515752 | Sodium | 103.4 | 90 | 117 |
| | 31614LCSD | | 2515752 | Calcium | 100.6 | 90 | 111 |
| | 31614LCSD | | 2515752 | Iron | 101.8 | 75 | 125 |
| | 31614LCSD | | 2515752 | Lead | 101.8 | 89 | 110 |
| | 31614LCSD | | 2515752 | Magnesium | 102.6 | 90 | 113 |
| | 31614LCSD | | 2515752 | Manganese | 101.4 | 75 | 125 |
| | 31614LCSD | | 2515752 | Potassium | 106 | 89 | 114 |
| | 31614LCSD | | 2515752 | Sodium | 104 | 90 | 117 |
| | 31795LCS | | 2515786 | Calcium | 96.8 | 90 | 111 |
| | 31795LCS | | 2515786 | Iron | 98.8 | 75 | 125 |
| | 31795LCS | | 2515786 | Lead | 100.8 | 89 | 110 |
| | 31795LCS | | 2515786 | Magnesium | 98.8 | 90 | 113 |
| | 31795LCS | | 2515786 | Manganese | 100.6 | 75 | 125 |
| | 31795LCS | | 2515786 | Potassium | 107.2 | 89 | 114 |
| | 31795LCS | | 2515786 | Sodium | 102.4 | 90 | 117 |
| | 31796LCSD | | 2515786 | Calcium | 98.8 | 90 | 111 |
| | 31796LCSD | | 2515786 | Iron | 100.6 | 75 | 125 |
| | 31796LCSD | | 2515786 | Lead | 101 | 89 | 110 |
| | 31796LCSD | | 2515786 | Magnesium | 100 | 90 | 113 |
| | 31796LCSD | | 2515786 | Manganese | 100.8 | 75 | 125 |
| | 31796LCSD | | 2515786 | Potassium | 108.6 | 89 | 114 |
| | 31796LCSD | | 2515786 | Sodium | 103.4 | 90 | 117 |
| | 32333LCS | | 2515807 | Calcium | 100.2 | 90 | 111 |
| | 32333LCS | | 2515808 | Calcium | 100.2 | 90 | 111 |
| | 32333LCS | | 2515807 | Iron | 101 | 75 | 125 |
| | 32333LCS | | 2515808 | Iron | 101 | 75 | 125 |
| | 32333LCS | | 2515808 | Lead | 100.2 | 89 | 110 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 32333LCS | WATER | 2515807 | Lead | 100.2 | 89 | 110 |
| | 32333LCS | | 2515807 | Magnesium | 101.6 | 90 | 113 |
| | 32333LCS | | 2515808 | Magnesium | 101.6 | 90 | 113 |
| | 32333LCS | | 2515807 | Manganese | 99.8 | 75 | 125 |
| | 32333LCS | | 2515808 | Manganese | 99.8 | 75 | 125 |
| | 32333LCS | | 2515807 | Potassium | 105.6 | 89 | 114 |
| | 32333LCS | | 2515808 | Potassium | 105.6 | 89 | 114 |
| | 32333LCS | | 2515808 | Sodium | 104.6 | 90 | 117 |
| | 32333LCS | | 2515807 | Sodium | 104.6 | 90 | 117 |
| | 32334LCSD | | 2515807 | Calcium | 101.2 | 90 | 111 |
| | 32334LCSD | | 2515808 | Calcium | 101.2 | 90 | 111 |
| | 32334LCSD | | 2515808 | Iron | 101.8 | 75 | 125 |
| | 32334LCSD | | 2515807 | Iron | 101.8 | 75 | 125 |
| | 32334LCSD | | 2515808 | Lead | 100 | 89 | 110 |
| | 32334LCSD | | 2515807 | Lead | 100 | 89 | 110 |
| | 32334LCSD | | 2515808 | Magnesium | 101.2 | 90 | 113 |
| | 32334LCSD | | 2515807 | Magnesium | 101.2 | 90 | 113 |
| | 32334LCSD | | 2515808 | Manganese | 99.4 | 75 | 125 |
| | 32334LCSD | | 2515807 | Manganese | 99.4 | 75 | 125 |
| | 32334LCSD | | 2515808 | Potassium | 106.2 | 89 | 114 |
| | 32334LCSD | | 2515807 | Potassium | 106.2 | 89 | 114 |
| | 32334LCSD | | 2515807 | Sodium | 105.6 | 90 | 117 |
| | 32334LCSD | | 2515808 | Sodium | 105.6 | 90 | 117 |
| | 37654LCS | | 2516238 | Calcium, dissolved | 96.4 | | |
| | 37654LCS | | 2516238 | Iron, dissolved | 95.4 | 89 | 116 |
| | 37654LCS | | 2516238 | Lead, dissolved | 98.6 | 89 | 110 |
| | 37654LCS | | 2516238 | Magnesium, dissolved | 98 | | |
| | 37654LCS | | 2516238 | Manganese, dissolved | 99.4 | 90 | 110 |
| | 37654LCS | | 2516238 | Potassium, dissolved | 99 | | |
| | 37654LCS | | 2516238 | Sodium, dissolved | 96.2 | | |
| | 37655LCSD | | 2516238 | Calcium, dissolved | 98 | | |
| | 37655LCSD | | 2516238 | Iron, dissolved | 97 | 89 | 116 |
| | 37655LCSD | | 2516238 | Lead, dissolved | 99 | 89 | 110 |
| | 37655LCSD | | 2516238 | Magnesium, dissolved | 98.8 | | |
| | 37655LCSD | | 2516238 | Manganese, dissolved | 99.8 | 90 | 110 |
| | 37655LCSD | | 2516238 | Potassium, dissolved | 99.6 | | |
| | 37655LCSD | | 2516238 | Sodium, dissolved | 97.2 | | |
| | 37978LCS | | 2516259 | Calcium, dissolved | 100 | | |
| | 37978LCS | | 2516259 | Iron, dissolved | 97.2 | 89 | 116 |
| | 37978LCS | | 2516259 | Lead, dissolved | 99.2 | 89 | 110 |
| | 37978LCS | | 2516259 | Magnesium, dissolved | 97 | | |
| | 37978LCS | | 2516259 | Manganese, dissolved | 103.2 | 90 | 110 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW6010B** | | | | | | | |
| | 37978LCS | WATER | 2516259 | Potassium, dissolved | 98.6 | | |
| | 37978LCS | | 2516259 | Sodium, dissolved | 97.6 | | |
| | 37979LCSD | | 2516259 | Calcium, dissolved | 101.4 | | |
| | 37979LCSD | | 2516259 | Iron, dissolved | 97.8 | 89 | 116 |
| | 37979LCSD | | 2516259 | Lead, dissolved | 99.4 | 89 | 110 |
| | 37979LCSD | | 2516259 | Magnesium, dissolved | 97.2 | | |
| | 37979LCSD | | 2516259 | Manganese, dissolved | 103.8 | 90 | 110 |
| | 37979LCSD | | 2516259 | Potassium, dissolved | 98.6 | | |
| | 37979LCSD | | 2516259 | Sodium, dissolved | 98.2 | | |
| | 38197LCS | | 2516299 | Calcium, dissolved | 97.8 | | |
| | 38197LCS | | 2516299 | Iron, dissolved | 99 | 89 | 116 |
| | 38197LCS | | 2516299 | Lead, dissolved | 100 | 89 | 110 |
| | 38197LCS | | 2516299 | Magnesium, dissolved | 101.4 | | |
| | 38197LCS | | 2516299 | Manganese, dissolved | 101 | 90 | 110 |
| | 38197LCS | | 2516299 | Potassium, dissolved | 104.2 | | |
| | 38197LCS | | 2516299 | Sodium, dissolved | 101.2 | | |
| | 38198LCSD | | 2516299 | Calcium, dissolved | 96.2 | | |
| | 38198LCSD | | 2516299 | Iron, dissolved | 97.2 | 89 | 116 |
| | 38198LCSD | | 2516299 | Lead, dissolved | 100.2 | 89 | 110 |
| | 38198LCSD | | 2516299 | Magnesium, dissolved | 100 | | |
| | 38198LCSD | | 2516299 | Manganese, dissolved | 100.8 | 90 | 110 |
| | 38198LCSD | | 2516299 | Potassium, dissolved | 102 | | |
| | 38198LCSD | | 2516299 | Sodium, dissolved | 99.2 | | |
| | 40093LCS | | 2515619 | Calcium | 97.4 | 90 | 111 |
| | 40093LCS | | 2515619 | Magnesium | 96.6 | 90 | 113 |
| | 40093LCS | | 2515619 | Potassium | 103.2 | 89 | 114 |
| | 40093LCS | | 2515619 | Sodium | 97.4 | 90 | 117 |
| | 40094LCSD | | 2515619 | Calcium | 103 | 90 | 111 |
| | 40094LCSD | | 2515619 | Magnesium | 102.6 | 90 | 113 |
| | 40094LCSD | | 2515619 | Potassium | 110 | 89 | 114 |
| | 40094LCSD | | 2515619 | Sodium | 103.6 | 90 | 117 |
| **SW8011** | | | | | | | |
| | 301917 | WATER | 2515580 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 301917 | | 2515546 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 301918 | | 2515580 | 1,2-Dibromoethane | 117 | 60 | 140 |
| | 301918 | | 2515546 | 1,2-Dibromoethane | 117 | 60 | 140 |
| | 302080 | | 2515619 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302081 | | 2515619 | 1,2-Dibromoethane | 91.7 | 60 | 140 |
| | 302117 | | 2515679 | 1,2-Dibromoethane | 83.3 | 60 | 140 |
| | 302117 | | 2515638 | 1,2-Dibromoethane | 83.3 | 60 | 140 |
| | 302118 | | 2515679 | 1,2-Dibromoethane | 79.2 | 60 | 140 |
| | 302118 | | 2515638 | 1,2-Dibromoethane | 79.2 | 60 | 140 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8011** | | | | | | | |
| | 302125 | WATER | 2515603 | 1,2-Dibromoethane | 91.7 | 60 | 140 |
| | 302125 | | 2515592 | 1,2-Dibromoethane | 91.7 | 60 | 140 |
| | 302126 | | 2515603 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302126 | | 2515592 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302188 | | 2515707 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302188 | | 2515690 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302188 | | 2515691 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302189 | | 2515707 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302189 | | 2515691 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302189 | | 2515690 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302378 | | 2515725 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302378 | | 2515786 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302378 | | 2515752 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302378 | | 2515736 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 302379 | | 2515725 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 302379 | | 2515752 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 302379 | | 2515736 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 302379 | | 2515786 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 302710 | | 2515807 | 1,2-Dibromoethane | 117 | 60 | 140 |
| | 302710 | | 2515808 | 1,2-Dibromoethane | 117 | 60 | 140 |
| | 302711 | | 2515807 | 1,2-Dibromoethane | 125 | 60 | 140 |
| | 302711 | | 2515808 | 1,2-Dibromoethane | 125 | 60 | 140 |
| | 303299 | | 2515807 | 1,2-Dibromoethane | 125 | 60 | 140 |
| | 303300 | | 2515807 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 304085 | | 2516259 | 1,2-Dibromoethane | 117 | 60 | 140 |
| | 304123 | | 2516299 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 304123 | | 2516238 | 1,2-Dibromoethane | 100 | 60 | 140 |
| | 304124 | | 2516299 | 1,2-Dibromoethane | 108 | 60 | 140 |
| | 304124 | | 2516238 | 1,2-Dibromoethane | 108 | 60 | 140 |
| **SW8015-E** | | | | | | | |
| | 301853 | WATER | 2515580 | TPH C10-C28 | 86 | 50 | 104 |
| | 301854 | | 2515580 | TPH C10-C28 | 87 | 50 | 104 |
| | 301904 | | 2515603 | TPH C10-C28 | 86 | 50 | 104 |
| | 301904 | | 2515592 | TPH C10-C28 | 86 | 50 | 104 |
| | 301905 | | 2515603 | TPH C10-C28 | 83 | 50 | 104 |
| | 301905 | | 2515592 | TPH C10-C28 | 83 | 50 | 104 |
| | 302019 | | 2515619 | TPH C10-C28 | 92 | 50 | 104 |
| | 302019 | | 2515638 | TPH C10-C28 | 89 | 50 | 104 |
| | 302071 | | 2515679 | TPH C10-C28 | 85 | 50 | 104 |
| | 302144 | | 2515690 | TPH C10-C28 | 85 | 50 | 104 |
| | 302144 | | 2515691 | TPH C10-C28 | 85 | 50 | 104 |
| | 302245 | | 2515707 | TPH C10-C28 | 89 | 50 | 104 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8015-E** | | | | | | | |
| | 302245 | WATER | 2515725 | TPH C10-C28 | 89 | 50 | 104 |
| | 302246 | | 2515707 | TPH C10-C28 | 82 | 50 | 104 |
| | 302246 | | 2515725 | TPH C10-C28 | 82 | 50 | 104 |
| | 302266 | | 2515736 | TPH C10-C28 | 85 | 50 | 104 |
| | 302267 | | 2515736 | TPH C10-C28 | 84 | 50 | 104 |
| | 302303 | | 2515752 | TPH C10-C28 | 100 | 50 | 104 |
| | 302304 | | 2515752 | TPH C10-C28 | 99 | 50 | 104 |
| | 302408 | | 2515786 | TPH C10-C28 | 85 | 50 | 104 |
| | 302409 | | 2515786 | TPH C10-C28 | 100 | 50 | 104 |
| | 302530 | | 2515808 | TPH C10-C28 | 92 | 50 | 104 |
| | 302531 | | 2515808 | TPH C10-C28 | 98 | 50 | 104 |
| | 303966 | | 2516238 | TPH C10-C28 | 89 | 50 | 104 |
| | 303967 | | 2516238 | TPH C10-C28 | 99 | 50 | 104 |
| | 304066 | | 2516259 | TPH C10-C28 | 94 | 50 | 104 |
| | 304131 | | 2516299 | TPH C10-C28 | 91 | 50 | 104 |
| | 304132 | | 2516299 | TPH C10-C28 | 100 | 50 | 104 |
| **SW8015-P** | | | | | | | |
| | 0426LCS2 | WATER | 2515580 | TPH C6-C10 | 112 | 79 | 149 |
| | 0426LCS2 | | 2515592 | TPH C6-C10 | 112 | 79 | 149 |
| | 0426LCSD2 | | 2515580 | TPH C6-C10 | 116 | 79 | 149 |
| | 0426LCSD2 | | 2515592 | TPH C6-C10 | 116 | 79 | 149 |
| | 0427LCS3 | | 2515603 | TPH C6-C10 | 128 | 79 | 149 |
| | 0427LCS3D | | 2515603 | TPH C6-C10 | 120 | 79 | 149 |
| | 0503LCS | | 2515619 | TPH C6-C10 | 96 | 79 | 149 |
| | 0503LCS | | 2515638 | TPH C6-C10 | 96 | 79 | 149 |
| | 0503LCSD | | 2515638 | TPH C6-C10 | 100 | 79 | 149 |
| | 0503LCSD | | 2515619 | TPH C6-C10 | 100 | 79 | 149 |
| | 0504LCS | | 2515679 | TPH C6-C10 | 104 | 79 | 149 |
| | 0504LCS | | 2515638 | TPH C6-C10 | 104 | 79 | 149 |
| | 0504LCSD | | 2515679 | TPH C6-C10 | 100 | 79 | 149 |
| | 0504LCSD | | 2515638 | TPH C6-C10 | 100 | 79 | 149 |
| | 0505LCS | | 2515691 | TPH C6-C10 | 112 | 79 | 149 |
| | 0505LCSD | | 2515691 | TPH C6-C10 | 104 | 79 | 149 |
| | 0507LCS | | 2515690 | TPH C6-C10 | 124 | 79 | 149 |
| | 0507LCS | | 2515707 | TPH C6-C10 | 124 | 79 | 149 |
| | 0507LCSD | | 2515690 | TPH C6-C10 | 104 | 79 | 149 |
| | 0507LCSD | | 2515707 | TPH C6-C10 | 104 | 79 | 149 |
| | 0510LCS | | 2515725 | TPH C6-C10 | 96 | 79 | 149 |
| | 0510LCSD | | 2515725 | TPH C6-C10 | 100 | 79 | 149 |
| | 0511LCS | | 2515752 | TPH C6-C10 | 112 | 79 | 149 |
| | 0511LCS | | 2515736 | TPH C6-C10 | 112 | 79 | 149 |
| | 0511LCSD | | 2515736 | TPH C6-C10 | 104 | 79 | 149 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8015-P** | | | | | | | |
| | 0511LCSD | WATER | 2515752 | TPH C6-C10 | 104 | 79 | 149 |
| | 0513LCS | | 2515786 | TPH C6-C10 | 104 | 79 | 149 |
| | 0513LCSD | | 2515786 | TPH C6-C10 | 108 | 79 | 149 |
| | 0517LCS2 | | 2515807 | TPH C6-C10 | 104 | 79 | 149 |
| | 0517LCS2 | | 2515808 | TPH C6-C10 | 104 | 79 | 149 |
| | 0517LCS2D | | 2515807 | TPH C6-C10 | 92 | 79 | 149 |
| | 0517LCS2D | | 2515808 | TPH C6-C10 | 92 | 79 | 149 |
| | 0616LCS | | 2516238 | TPH C6-C10 | 104 | 79 | 149 |
| | 0616LCSD | | 2516238 | TPH C6-C10 | 104 | 79 | 149 |
| | 0621LCS | | 2516259 | TPH C6-C10 | 96 | 79 | 149 |
| | 0621LCS | | 2516238 | TPH C6-C10 | 96 | 79 | 149 |
| | 0621LCSD | | 2516238 | TPH C6-C10 | 96 | 79 | 149 |
| | 0621LCSD | | 2516259 | TPH C6-C10 | 96 | 79 | 149 |
| | 0628LCS | | 2516299 | TPH C6-C10 | 96 | 79 | 149 |
| | 0628LCSD | | 2516299 | TPH C6-C10 | 108 | 79 | 149 |
| **SW8260B** | | | | | | | |
| | 041910LCSA31 | WATER | 2515546 | 1,1,1,2-Tetrachloroethane | 106 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | 1,1,2,2-Tetrachloroethane | 96 | 73 | 119 |
| | 041910LCSA31 | | 2515546 | 1,1,2-Trichloroethane | 100 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | 1,1-Dichloroethane | 98 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | 1,1-Dichloroethene | 97 | 66 | 133 |
| | 041910LCSA31 | | 2515546 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 041910LCSA31 | | 2515546 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 041910LCSA31 | | 2515546 | 1,2,3-Trichloropropane | 94.5 | 84 | 118 |
| | 041910LCSA31 | | 2515546 | 1,2,4-Trichlorobenzene | 100 | 73 | 121 |
| | 041910LCSA31 | | 2515546 | 1,2,4-Trimethylbenzene | 106 | 77 | 120 |
| | 041910LCSA31 | | 2515546 | 1,2-Dibromo-3-chloropropane | 94 | 65 | 117 |
| | 041910LCSA31 | | 2515546 | 1,2-Dibromoethane | 99 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | 1,2-Dichlorobenzene | 95.5 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | 1,2-Dichloroethane | 90 | 74 | 120 |
| | 041910LCSA31 | | 2515546 | 1,2-Dichloropropane | 98 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | 1,3,5-Trimethylbenzene | 106 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | 1,3-Dichlorobenzene | 99.5 | 75 | 115 |
| | 041910LCSA31 | | 2515546 | 1,3-Dichloropropane | 96.5 | 75 | 115 |
| | 041910LCSA31 | | 2515546 | 1,4-Dichlorobenzene | 100 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | 2,2-Dichloropropane | 104 | 72 | 128 |
| | 041910LCSA31 | | 2515546 | 2-Butanone | 102 | 57 | 120 |
| | 041910LCSA31 | | 2515546 | 2-Chlorotoluene | 105 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | 2-Hexanone | 97.5 | 57 | 121 |
| | 041910LCSA31 | | 2515546 | 4-Chlorotoluene | 100 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | 4-Methyl-2-Pentanone | 104 | 65 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 041910LCSA31 | WATER | 2515546 | Acetone | 100 | 48 | 130 |
| | 041910LCSA31 | | 2515546 | Benzene | 97 | 77 | 118 |
| | 041910LCSA31 | | 2515546 | Bromobenzene | 102 | 75 | 115 |
| | 041910LCSA31 | | 2515546 | Bromochloromethane | 100 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Bromodichloromethane | 103 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Bromoform | 95.5 | 74 | 121 |
| | 041910LCSA31 | | 2515546 | Bromomethane | 99.5 | 42 | 154 |
| | 041910LCSA31 | | 2515546 | Carbon Disulfide | 100 | 56 | 104 |
| | 041910LCSA31 | | 2515546 | Carbon tetrachloride | 104 | 80 | 120 |
| | 041910LCSA31 | | 2515546 | Chlorobenzene | 96.5 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Chloroethane | 88.5 | 51 | 133 |
| | 041910LCSA31 | | 2515546 | Chloroform | 93.5 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Chloromethane | 102 | 46 | 142 |
| | 041910LCSA31 | | 2515546 | Cis-1,2-DCE | 101 | 75 | 115 |
| | 041910LCSA31 | | 2515546 | cis-1,3-Dichloropropene | 110 | 76 | 113 |
| | 041910LCSA31 | | 2515546 | Dibromochloromethane | 102 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | Dibromomethane | 96 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | Dichlorodifluoromethane | 94.5 | 56 | 140 |
| | 041910LCSA31 | | 2515546 | Ethylbenzene | 101 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Hexachlorobutadiene | 104 | 73 | 123 |
| | 041910LCSA31 | | 2515546 | Isopropylbenzene | 106 | 71 | 113 |
| | 041910LCSA31 | | 2515546 | m,p-Xylene | 101 | 78 | 118 |
| | 041910LCSA31 | | 2515546 | Methyl tert-Butyl Ether | 97 | 58 | 116 |
| | 041910LCSA31 | | 2515546 | Methylene chloride | 98 | 71 | 119 |
| | 041910LCSA31 | | 2515546 | Naphthalene | 104 | 62 | 121 |
| | 041910LCSA31 | | 2515546 | n-Butylbenzene | 110 | 76 | 117 |
| | 041910LCSA31 | | 2515546 | n-Propylbenzene | 110 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | o-Xylene | 102 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | p-Isopropyltoluene | 110 | 76 | 113 |
| | 041910LCSA31 | | 2515546 | Sec-Butylbenzene | 110 | 80 | 120 |
| | 041910LCSA31 | | 2515546 | Styrene | 106 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | tert-Butylbenzene | 105 | 76 | 116 |
| | 041910LCSA31 | | 2515546 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 041910LCSA31 | | 2515546 | Toluene | 104 | 73 | 120 |
| | 041910LCSA31 | | 2515546 | trans-1,2-Dichloroethene | 93.5 | 80 | 120 |
| | 041910LCSA31 | | 2515546 | trans-1,3-Dichloropropene | 98.5 | 72 | 117 |
| | 041910LCSA31 | | 2515546 | Trichloroethene | 98 | 78 | 122 |
| | 041910LCSA31 | | 2515546 | Trichlorofluoromethane | 88.5 | 65 | 190 |
| | 041910LCSA31 | | 2515546 | Vinyl chloride | 110 | 49 | 136 |
| | 041910LCSA31 | | 2515546 | Xylenes, Total | 101 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 1,1,1,2-Tetrachloroethane | 102 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 1,1,1-Trichloroethane | 98 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 041910LCSA31D | WATER | 2515546 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 041910LCSA31D | | 2515546 | 1,1,2-Trichloroethane | 100 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | 1,1-Dichloroethane | 96.5 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 1,1-Dichloroethene | 95 | 66 | 133 |
| | 041910LCSA31D | | 2515546 | 1,1-Dichloropropene | 99 | 75 | 115 |
| | 041910LCSA31D | | 2515546 | 1,2,3-Trichlorobenzene | 100 | 66 | 123 |
| | 041910LCSA31D | | 2515546 | 1,2,3-Trichloropropane | 94 | 84 | 118 |
| | 041910LCSA31D | | 2515546 | 1,2,4-Trichlorobenzene | 98 | 73 | 121 |
| | 041910LCSA31D | | 2515546 | 1,2,4-Trimethylbenzene | 102 | 77 | 120 |
| | 041910LCSA31D | | 2515546 | 1,2-Dibromo-3-chloropropane | 97 | 65 | 117 |
| | 041910LCSA31D | | 2515546 | 1,2-Dibromoethane | 99 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 1,2-Dichlorobenzene | 93.5 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | 1,2-Dichloroethane | 92 | 74 | 120 |
| | 041910LCSA31D | | 2515546 | 1,2-Dichloropropane | 96.5 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | 1,3,5-Trimethylbenzene | 105 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 1,3-Dichlorobenzene | 99 | 75 | 115 |
| | 041910LCSA31D | | 2515546 | 1,3-Dichloropropane | 95 | 75 | 115 |
| | 041910LCSA31D | | 2515546 | 1,4-Dichlorobenzene | 102 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | 2,2-Dichloropropane | 99.5 | 72 | 128 |
| | 041910LCSA31D | | 2515546 | 2-Butanone | 98.8 | 57 | 120 |
| | 041910LCSA31D | | 2515546 | 2-Chlorotoluene | 100 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | 2-Hexanone | 99.2 | 57 | 121 |
| | 041910LCSA31D | | 2515546 | 4-Chlorotoluene | 101 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | 4-Methyl-2-Pentanone | 103 | 65 | 118 |
| | 041910LCSA31D | | 2515546 | Acetone | 105 | 48 | 130 |
| | 041910LCSA31D | | 2515546 | Benzene | 96.5 | 77 | 118 |
| | 041910LCSA31D | | 2515546 | Bromobenzene | 99.5 | 75 | 115 |
| | 041910LCSA31D | | 2515546 | Bromochloromethane | 99 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Bromodichloromethane | 101 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Bromoform | 96.5 | 74 | 121 |
| | 041910LCSA31D | | 2515546 | Bromomethane | 96 | 42 | 154 |
| | 041910LCSA31D | | 2515546 | Carbon Disulfide | 97 | 56 | 104 |
| | 041910LCSA31D | | 2515546 | Carbon tetrachloride | 100 | 80 | 120 |
| | 041910LCSA31D | | 2515546 | Chlorobenzene | 95.5 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Chloroethane | 84.5 | 51 | 133 |
| | 041910LCSA31D | | 2515546 | Chloroform | 93 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Chloromethane | 95.5 | 46 | 142 |
| | 041910LCSA31D | | 2515546 | Cis-1,2-DCE | 98 | 75 | 115 |
| | 041910LCSA31D | | 2515546 | cis-1,3-Dichloropropene | 110 | 76 | 113 |
| | 041910LCSA31D | | 2515546 | Dibromochloromethane | 100 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | Dibromomethane | 94.5 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | Dichlorodifluoromethane | 89.5 | 56 | 140 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 041910LCSA31D | WATER | 2515546 | Ethylbenzene | 97 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Hexachlorobutadiene | 103 | 73 | 123 |
| | 041910LCSA31D | | 2515546 | Isopropylbenzene | 105 | 71 | 113 |
| | 041910LCSA31D | | 2515546 | m,p-Xylene | 98.8 | 78 | 118 |
| | 041910LCSA31D | | 2515546 | Methyl tert-Butyl Ether | 93.5 | 58 | 116 |
| | 041910LCSA31D | | 2515546 | Methylene chloride | 98 | 71 | 119 |
| | 041910LCSA31D | | 2515546 | Naphthalene | 104 | 62 | 121 |
| | 041910LCSA31D | | 2515546 | n-Butylbenzene | 106 | 76 | 117 |
| | 041910LCSA31D | | 2515546 | n-Propylbenzene | 108 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | o-Xylene | 100 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | p-Isopropyltoluene | 106 | 76 | 113 |
| | 041910LCSA31D | | 2515546 | Sec-Butylbenzene | 107 | 80 | 120 |
| | 041910LCSA31D | | 2515546 | Styrene | 102 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | tert-Butylbenzene | 98.5 | 76 | 116 |
| | 041910LCSA31D | | 2515546 | Tetrachloroethene | 96.5 | 77 | 117 |
| | 041910LCSA31D | | 2515546 | Toluene | 103 | 73 | 120 |
| | 041910LCSA31D | | 2515546 | trans-1,2-Dichloroethene | 93 | 80 | 120 |
| | 041910LCSA31D | | 2515546 | trans-1,3-Dichloropropene | 96 | 72 | 117 |
| | 041910LCSA31D | | 2515546 | Trichloroethene | 97 | 78 | 122 |
| | 041910LCSA31D | | 2515546 | Trichlorofluoromethane | 87 | 65 | 190 |
| | 041910LCSA31D | | 2515546 | Vinyl chloride | 106 | 49 | 136 |
| | 041910LCSA31D | | 2515546 | Xylenes, Total | 99.2 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | 1,1,1,2-Tetrachloroethane | 98 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | 1,1,1-Trichloroethane | 104 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | 1,1,2,2-Tetrachloroethane | 88.5 | 73 | 119 |
| | 042010LCSA31 | | 2515580 | 1,1,2-Trichloroethane | 98.5 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | 1,1-Dichloroethane | 99.5 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | 1,1-Dichloroethene | 102 | 66 | 133 |
| | 042010LCSA31 | | 2515580 | 1,1-Dichloropropene | 102 | 75 | 115 |
| | 042010LCSA31 | | 2515580 | 1,2,3-Trichlorobenzene | 92.5 | 66 | 123 |
| | 042010LCSA31 | | 2515580 | 1,2,3-Trichloropropane | 90 | 84 | 118 |
| | 042010LCSA31 | | 2515580 | 1,2,4-Trichlorobenzene | 93 | 73 | 121 |
| | 042010LCSA31 | | 2515580 | 1,2,4-Trimethylbenzene | 103 | 77 | 120 |
| | 042010LCSA31 | | 2515580 | 1,2-Dibromo-3-chloropropane | 89 | 65 | 117 |
| | 042010LCSA31 | | 2515580 | 1,2-Dibromoethane | 88 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | 1,2-Dichlorobenzene | 89 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | 1,2-Dichloroethane | 88 | 74 | 120 |
| | 042010LCSA31 | | 2515580 | 1,2-Dichloropropane | 96.5 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | 1,3-Dichlorobenzene | 95.5 | 75 | 115 |
| | 042010LCSA31 | | 2515580 | 1,3-Dichloropropane | 88 | 75 | 115 |
| | 042010LCSA31 | | 2515580 | 1,4-Dichlorobenzene | 96.5 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042010LCSA31 | WATER | 2515580 | 2,2-Dichloropropane | 106 | 72 | 128 |
| | 042010LCSA31 | | 2515580 | 2-Butanone | 91.5 | 57 | 120 |
| | 042010LCSA31 | | 2515580 | 2-Chlorotoluene | 99.5 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | 2-Hexanone | 87 | 57 | 121 |
| | 042010LCSA31 | | 2515580 | 4-Chlorotoluene | 98.5 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | 4-Methyl-2-Pentanone | 95.8 | 65 | 118 |
| | 042010LCSA31 | | 2515580 | Acetone | 100 | 48 | 130 |
| | 042010LCSA31 | | 2515580 | Benzene | 97.5 | 77 | 118 |
| | 042010LCSA31 | | 2515580 | Bromobenzene | 97 | 75 | 115 |
| | 042010LCSA31 | | 2515580 | Bromochloromethane | 99 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Bromodichloromethane | 100 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Bromoform | 92 | 74 | 121 |
| | 042010LCSA31 | | 2515580 | Bromomethane | 105 | 42 | 154 |
| | 042010LCSA31 | | 2515580 | Carbon Disulfide | 101 | 56 | 104 |
| | 042010LCSA31 | | 2515580 | Carbon tetrachloride | 108 | 80 | 120 |
| | 042010LCSA31 | | 2515580 | Chlorobenzene | 92 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Chloroethane | 94.5 | 51 | 133 |
| | 042010LCSA31 | | 2515580 | Chloroform | 93 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Chloromethane | 104 | 46 | 142 |
| | 042010LCSA31 | | 2515580 | Cis-1,2-DCE | 98.5 | 75 | 115 |
| | 042010LCSA31 | | 2515580 | cis-1,3-Dichloropropene | 106 | 76 | 113 |
| | 042010LCSA31 | | 2515580 | Dibromochloromethane | 96.5 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | Dibromomethane | 92.5 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | Dichlorodifluoromethane | 89 | 56 | 140 |
| | 042010LCSA31 | | 2515580 | Ethylbenzene | 95 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Hexachlorobutadiene | 104 | 73 | 123 |
| | 042010LCSA31 | | 2515580 | Isopropylbenzene | 102 | 71 | 113 |
| | 042010LCSA31 | | 2515580 | m,p-Xylene | 96 | 78 | 118 |
| | 042010LCSA31 | | 2515580 | Methyl tert-Butyl Ether | 91 | 58 | 116 |
| | 042010LCSA31 | | 2515580 | Methylene chloride | 100 | 71 | 119 |
| | 042010LCSA31 | | 2515580 | Naphthalene | 95 | 62 | 121 |
| | 042010LCSA31 | | 2515580 | n-Butylbenzene | 106 | 76 | 117 |
| | 042010LCSA31 | | 2515580 | n-Propylbenzene | 106 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | o-Xylene | 96 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | p-Isopropyltoluene | 104 | 76 | 113 |
| | 042010LCSA31 | | 2515580 | Sec-Butylbenzene | 106 | 80 | 120 |
| | 042010LCSA31 | | 2515580 | Styrene | 99 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | tert-Butylbenzene | 99 | 76 | 116 |
| | 042010LCSA31 | | 2515580 | Tetrachloroethene | 93.5 | 77 | 117 |
| | 042010LCSA31 | | 2515580 | Toluene | 104 | 73 | 120 |
| | 042010LCSA31 | | 2515580 | trans-1,2-Dichloroethene | 96.5 | 80 | 120 |
| | 042010LCSA31 | | 2515580 | trans-1,3-Dichloropropene | 94 | 72 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042010LCSA31 | WATER | 2515580 | Trichloroethene | 97 | 78 | 122 |
| | 042010LCSA31 | | 2515580 | Trichlorofluoromethane | 103 | 65 | 190 |
| | 042010LCSA31 | | 2515580 | Vinyl chloride | 120 | 49 | 136 |
| | 042010LCSA31 | | 2515580 | Xylenes, Total | 96 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 1,1,1,2-Tetrachloroethane | 102 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 1,1,1-Trichloroethane | 105 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | 1,1,2,2-Tetrachloroethane | 91.5 | 73 | 119 |
| | 042010LCSA31D | | 2515580 | 1,1,2-Trichloroethane | 99.5 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 1,1-Dichloroethene | 98.5 | 66 | 133 |
| | 042010LCSA31D | | 2515580 | 1,1-Dichloropropene | 102 | 75 | 115 |
| | 042010LCSA31D | | 2515580 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 042010LCSA31D | | 2515580 | 1,2,3-Trichloropropane | 91.5 | 84 | 118 |
| | 042010LCSA31D | | 2515580 | 1,2,4-Trichlorobenzene | 97.5 | 73 | 121 |
| | 042010LCSA31D | | 2515580 | 1,2,4-Trimethylbenzene | 104 | 77 | 120 |
| | 042010LCSA31D | | 2515580 | 1,2-Dibromo-3-chloropropane | 90 | 65 | 117 |
| | 042010LCSA31D | | 2515580 | 1,2-Dibromoethane | 96 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 1,2-Dichlorobenzene | 93.5 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | 1,2-Dichloroethane | 93 | 74 | 120 |
| | 042010LCSA31D | | 2515580 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | 1,3,5-Trimethylbenzene | 103 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 1,3-Dichlorobenzene | 98.5 | 75 | 115 |
| | 042010LCSA31D | | 2515580 | 1,3-Dichloropropane | 95 | 75 | 115 |
| | 042010LCSA31D | | 2515580 | 1,4-Dichlorobenzene | 100 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 042010LCSA31D | | 2515580 | 2-Butanone | 94.8 | 57 | 120 |
| | 042010LCSA31D | | 2515580 | 2-Chlorotoluene | 100 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | 2-Hexanone | 92.8 | 57 | 121 |
| | 042010LCSA31D | | 2515580 | 4-Chlorotoluene | 103 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | 4-Methyl-2-Pentanone | 101 | 65 | 118 |
| | 042010LCSA31D | | 2515580 | Acetone | 98.2 | 48 | 130 |
| | 042010LCSA31D | | 2515580 | Benzene | 100 | 77 | 118 |
| | 042010LCSA31D | | 2515580 | Bromobenzene | 100 | 75 | 115 |
| | 042010LCSA31D | | 2515580 | Bromochloromethane | 98 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | Bromodichloromethane | 104 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | Bromoform | 92.5 | 74 | 121 |
| | 042010LCSA31D | | 2515580 | Bromomethane | 105 | 42 | 154 |
| | 042010LCSA31D | | 2515580 | Carbon Disulfide | 100 | 56 | 104 |
| | 042010LCSA31D | | 2515580 | Carbon tetrachloride | 109 | 80 | 120 |
| | 042010LCSA31D | | 2515580 | Chlorobenzene | 96.5 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | Chloroethane | 98.5 | 51 | 133 |
| | 042010LCSA31D | | 2515580 | Chloroform | 96 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042010LCSA31D | WATER | 2515580 | Chloromethane | 89 | 46 | 142 |
| | 042010LCSA31D | | 2515580 | Cis-1,2-DCE | 105 | 75 | 115 |
| | 042010LCSA31D | | 2515580 | cis-1,3-Dichloropropene | 110 | 76 | 113 |
| | 042010LCSA31D | | 2515580 | Dibromochloromethane | 100 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | Dibromomethane | 102 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | Dichlorodifluoromethane | 86 | 56 | 140 |
| | 042010LCSA31D | | 2515580 | Ethylbenzene | 100 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 042010LCSA31D | | 2515580 | Isopropylbenzene | 106 | 71 | 113 |
| | 042010LCSA31D | | 2515580 | m,p-Xylene | 102 | 78 | 118 |
| | 042010LCSA31D | | 2515580 | Methyl tert-Butyl Ether | 93 | 58 | 116 |
| | 042010LCSA31D | | 2515580 | Methylene chloride | 102 | 71 | 119 |
| | 042010LCSA31D | | 2515580 | Naphthalene | 98 | 62 | 121 |
| | 042010LCSA31D | | 2515580 | n-Butylbenzene | 106 | 76 | 117 |
| | 042010LCSA31D | | 2515580 | n-Propylbenzene | 110 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | o-Xylene | 102 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | p-Isopropyltoluene | 106 | 76 | 113 |
| | 042010LCSA31D | | 2515580 | Sec-Butylbenzene | 107 | 80 | 120 |
| | 042010LCSA31D | | 2515580 | Styrene | 105 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | tert-Butylbenzene | 103 | 76 | 116 |
| | 042010LCSA31D | | 2515580 | Tetrachloroethene | 98 | 77 | 117 |
| | 042010LCSA31D | | 2515580 | Toluene | 107 | 73 | 120 |
| | 042010LCSA31D | | 2515580 | trans-1,2-Dichloroethene | 98 | 80 | 120 |
| | 042010LCSA31D | | 2515580 | trans-1,3-Dichloropropene | 94 | 72 | 117 |
| | 042010LCSA31D | | 2515580 | Trichloroethene | 99 | 78 | 122 |
| | 042010LCSA31D | | 2515580 | Trichlorofluoromethane | 96.5 | 65 | 190 |
| | 042010LCSA31D | | 2515580 | Vinyl chloride | 116 | 49 | 136 |
| | 042010LCSA31D | | 2515580 | Xylenes, Total | 102 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 1,1,1,2-Tetrachloroethane | 101 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 1,1,1-Trichloroethane | 104 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | 1,1,2,2-Tetrachloroethane | 91.5 | 73 | 119 |
| | 042110LCSA31 | | 2515580 | 1,1,2-Trichloroethane | 97 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 1,1-Dichloroethene | 101 | 66 | 133 |
| | 042110LCSA31 | | 2515580 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 042110LCSA31 | | 2515580 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 042110LCSA31 | | 2515580 | 1,2,3-Trichloropropane | 91.5 | 84 | 118 |
| | 042110LCSA31 | | 2515580 | 1,2,4-Trichlorobenzene | 100 | 73 | 121 |
| | 042110LCSA31 | | 2515580 | 1,2,4-Trimethylbenzene | 104 | 77 | 120 |
| | 042110LCSA31 | | 2515580 | 1,2-Dibromo-3-chloropropane | 95.5 | 65 | 117 |
| | 042110LCSA31 | | 2515580 | 1,2-Dibromoethane | 96 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 1,2-Dichlorobenzene | 96 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042110LCSA31 | WATER | 2515580 | 1,2-Dichloroethane | 89 | 74 | 120 |
| | 042110LCSA31 | | 2515580 | 1,2-Dichloropropane | 98 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | 1,3,5-Trimethylbenzene | 108 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 1,3-Dichlorobenzene | 100 | 75 | 115 |
| | 042110LCSA31 | | 2515580 | 1,3-Dichloropropane | 95.5 | 75 | 115 |
| | 042110LCSA31 | | 2515580 | 1,4-Dichlorobenzene | 102 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 042110LCSA31 | | 2515580 | 2-Butanone | 92.5 | 57 | 120 |
| | 042110LCSA31 | | 2515580 | 2-Chlorotoluene | 104 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | 2-Hexanone | 89.2 | 57 | 121 |
| | 042110LCSA31 | | 2515580 | 4-Chlorotoluene | 102 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | 4-Methyl-2-Pentanone | 96 | 65 | 118 |
| | 042110LCSA31 | | 2515580 | Acetone | 96.2 | 48 | 130 |
| | 042110LCSA31 | | 2515580 | Benzene | 99.5 | 77 | 118 |
| | 042110LCSA31 | | 2515580 | Bromobenzene | 100 | 75 | 115 |
| | 042110LCSA31 | | 2515580 | Bromochloromethane | 97.5 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Bromodichloromethane | 100 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Bromoform | 90.5 | 74 | 121 |
| | 042110LCSA31 | | 2515580 | Bromomethane | 95 | 42 | 154 |
| | 042110LCSA31 | | 2515580 | **Carbon Disulfide** | **106** | **56** | **104** |
| | 042110LCSA31 | | 2515580 | Carbon tetrachloride | 106 | 80 | 120 |
| | 042110LCSA31 | | 2515580 | Chlorobenzene | 98 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Chloroethane | 106 | 51 | 133 |
| | 042110LCSA31 | | 2515580 | Chloroform | 95.5 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Chloromethane | 95.5 | 46 | 142 |
| | 042110LCSA31 | | 2515580 | Cis-1,2-DCE | 102 | 75 | 115 |
| | 042110LCSA31 | | 2515580 | cis-1,3-Dichloropropene | 108 | 76 | 113 |
| | 042110LCSA31 | | 2515580 | Dibromochloromethane | 97.5 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | Dibromomethane | 98 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | Dichlorodifluoromethane | 99 | 56 | 140 |
| | 042110LCSA31 | | 2515580 | Ethylbenzene | 102 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Hexachlorobutadiene | 109 | 73 | 123 |
| | 042110LCSA31 | | 2515580 | Isopropylbenzene | 108 | 71 | 113 |
| | 042110LCSA31 | | 2515580 | m,p-Xylene | 102 | 78 | 118 |
| | 042110LCSA31 | | 2515580 | Methyl tert-Butyl Ether | 92.5 | 58 | 116 |
| | 042110LCSA31 | | 2515580 | Methylene chloride | 104 | 71 | 119 |
| | 042110LCSA31 | | 2515580 | Naphthalene | 99.5 | 62 | 121 |
| | 042110LCSA31 | | 2515580 | n-Butylbenzene | 110 | 76 | 117 |
| | 042110LCSA31 | | 2515580 | n-Propylbenzene | 110 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | o-Xylene | 102 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | p-Isopropyltoluene | 110 | 76 | 113 |
| | 042110LCSA31 | | 2515580 | Sec-Butylbenzene | 110 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042110LCSA31 | WATER | 2515580 | Styrene | 105 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | tert-Butylbenzene | 102 | 76 | 116 |
| | 042110LCSA31 | | 2515580 | Tetrachloroethene | 102 | 77 | 117 |
| | 042110LCSA31 | | 2515580 | Toluene | 106 | 73 | 120 |
| | 042110LCSA31 | | 2515580 | trans-1,2-Dichloroethene | 99.5 | 80 | 120 |
| | 042110LCSA31 | | 2515580 | trans-1,3-Dichloropropene | 93 | 72 | 117 |
| | 042110LCSA31 | | 2515580 | Trichloroethene | 101 | 78 | 122 |
| | 042110LCSA31 | | 2515580 | Trichlorofluoromethane | 92.5 | 65 | 190 |
| | 042110LCSA31 | | 2515580 | Vinyl chloride | 126 | 49 | 136 |
| | 042110LCSA31 | | 2515580 | Xylenes, Total | 102 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 1,1,1,2-Tetrachloroethane | 102 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | 1,1,2,2-Tetrachloroethane | 93.5 | 73 | 119 |
| | 042110LCSA31D | | 2515580 | 1,1,2-Trichloroethane | 97.5 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 1,1-Dichloroethene | 98.5 | 66 | 133 |
| | 042110LCSA31D | | 2515580 | 1,1-Dichloropropene | 102 | 75 | 115 |
| | 042110LCSA31D | | 2515580 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 042110LCSA31D | | 2515580 | 1,2,3-Trichloropropane | 93 | 84 | 118 |
| | 042110LCSA31D | | 2515580 | 1,2,4-Trichlorobenzene | 100 | 73 | 121 |
| | 042110LCSA31D | | 2515580 | 1,2,4-Trimethylbenzene | 104 | 77 | 120 |
| | 042110LCSA31D | | 2515580 | 1,2-Dibromo-3-chloropropane | 96.5 | 65 | 117 |
| | 042110LCSA31D | | 2515580 | 1,2-Dibromoethane | 97 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 1,2-Dichlorobenzene | 95 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | 1,2-Dichloroethane | 91 | 74 | 120 |
| | 042110LCSA31D | | 2515580 | 1,2-Dichloropropane | 99 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | 1,3,5-Trimethylbenzene | 105 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 1,3-Dichlorobenzene | 99 | 75 | 115 |
| | 042110LCSA31D | | 2515580 | 1,3-Dichloropropane | 96 | 75 | 115 |
| | 042110LCSA31D | | 2515580 | 1,4-Dichlorobenzene | 101 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | 2,2-Dichloropropane | 104 | 72 | 128 |
| | 042110LCSA31D | | 2515580 | 2-Butanone | 97 | 57 | 120 |
| | 042110LCSA31D | | 2515580 | 2-Chlorotoluene | 100 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | 2-Hexanone | 99 | 57 | 121 |
| | 042110LCSA31D | | 2515580 | 4-Chlorotoluene | 104 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | 4-Methyl-2-Pentanone | 101 | 65 | 118 |
| | 042110LCSA31D | | 2515580 | Acetone | 105 | 48 | 130 |
| | 042110LCSA31D | | 2515580 | Benzene | 99.5 | 77 | 118 |
| | 042110LCSA31D | | 2515580 | Bromobenzene | 99.5 | 75 | 115 |
| | 042110LCSA31D | | 2515580 | Bromochloromethane | 97.5 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Bromodichloromethane | 99.5 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Bromoform | 94.5 | 74 | 121 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 042110LCSA31D | WATER | 2515580 | Bromomethane | 90 | 42 | 154 |
| | 042110LCSA31D | | 2515580 | Carbon Disulfide | 102 | 56 | 104 |
| | 042110LCSA31D | | 2515580 | Carbon tetrachloride | 101 | 80 | 120 |
| | 042110LCSA31D | | 2515580 | Chlorobenzene | 97.5 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Chloroethane | 101 | 51 | 133 |
| | 042110LCSA31D | | 2515580 | Chloroform | 94 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Chloromethane | 100 | 46 | 142 |
| | 042110LCSA31D | | 2515580 | Cis-1,2-DCE | 103 | 75 | 115 |
| | 042110LCSA31D | | 2515580 | cis-1,3-Dichloropropene | 106 | 76 | 113 |
| | 042110LCSA31D | | 2515580 | Dibromochloromethane | 99 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | Dibromomethane | 95 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | Dichlorodifluoromethane | 93 | 56 | 140 |
| | 042110LCSA31D | | 2515580 | Ethylbenzene | 100 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Hexachlorobutadiene | 104 | 73 | 123 |
| | 042110LCSA31D | | 2515580 | Isopropylbenzene | 106 | 71 | 113 |
| | 042110LCSA31D | | 2515580 | m,p-Xylene | 102 | 78 | 118 |
| | 042110LCSA31D | | 2515580 | Methyl tert-Butyl Ether | 97 | 58 | 116 |
| | 042110LCSA31D | | 2515580 | Methylene chloride | 105 | 71 | 119 |
| | 042110LCSA31D | | 2515580 | Naphthalene | 102 | 62 | 121 |
| | 042110LCSA31D | | 2515580 | n-Butylbenzene | 108 | 76 | 117 |
| | 042110LCSA31D | | 2515580 | n-Propylbenzene | 110 | 76 | 116 |
| | 042110LCSA31D | | 2515580 | o-Xylene | 102 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | p-Isopropyltoluene | 108 | 76 | 113 |
| | 042110LCSA31D | | 2515580 | Sec-Butylbenzene | 108 | 80 | 120 |
| | 042110LCSA31D | | 2515580 | Styrene | 104 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | **tert-Butylbenzene** | **118** | **76** | **116** |
| | 042110LCSA31D | | 2515580 | Tetrachloroethene | 100 | 77 | 117 |
| | 042110LCSA31D | | 2515580 | Toluene | 105 | 73 | 120 |
| | 042110LCSA31D | | 2515580 | trans-1,2-Dichloroethene | 98.5 | 80 | 120 |
| | 042110LCSA31D | | 2515580 | trans-1,3-Dichloropropene | 91.5 | 72 | 117 |
| | 042110LCSA31D | | 2515580 | Trichloroethene | 98.5 | 78 | 122 |
| | 042110LCSA31D | | 2515580 | Trichlorofluoromethane | 86 | 65 | 190 |
| | 042110LCSA31D | | 2515580 | Vinyl chloride | 115 | 49 | 136 |
| | 042110LCSA31D | | 2515580 | Xylenes, Total | 102 | 77 | 117 |
| | 0427LCS52 | | 2515592 | 1,1,1,2-Tetrachloroethane | 116 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,1,1,2-Tetrachloroethane | 116 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,1,1-Trichloroethane | 113 | 78 | 118 |
| | 0427LCS52 | | 2515592 | 1,1,1-Trichloroethane | 113 | 78 | 118 |
| | 0427LCS52 | | 2515603 | 1,1,2,2-Tetrachloroethane | 91 | 73 | 119 |
| | 0427LCS52 | | 2515592 | 1,1,2,2-Tetrachloroethane | 91 | 73 | 119 |
| | 0427LCS52 | | 2515592 | 1,1,2-Trichloroethane | 106 | 76 | 116 |
| | 0427LCS52 | | 2515603 | 1,1,2-Trichloroethane | 106 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52 | WATER | 2515592 | 1,1-Dichloroethane | 104 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,1-Dichloroethane | 104 | 77 | 117 |
| | 0427LCS52 | | 2515592 | 1,1-Dichloroethene | 106 | 66 | 133 |
| | 0427LCS52 | | 2515603 | 1,1-Dichloroethene | 106 | 66 | 133 |
| | 0427LCS52 | | 2515592 | 1,1-Dichloropropene | 114 | 75 | 115 |
| | 0427LCS52 | | 2515603 | 1,1-Dichloropropene | 114 | 75 | 115 |
| | 0427LCS52 | | 2515592 | 1,2,3-Trichlorobenzene | 107 | 66 | 123 |
| | 0427LCS52 | | 2515603 | 1,2,3-Trichlorobenzene | 107 | 66 | 123 |
| | 0427LCS52 | | 2515603 | 1,2,3-Trichloropropane | 94 | 84 | 118 |
| | 0427LCS52 | | 2515592 | 1,2,3-Trichloropropane | 94 | 84 | 118 |
| | 0427LCS52 | | 2515603 | 1,2,4-Trichlorobenzene | 109 | 73 | 121 |
| | 0427LCS52 | | 2515592 | 1,2,4-Trichlorobenzene | 109 | 73 | 121 |
| | 0427LCS52 | | 2515592 | 1,2,4-Trimethylbenzene | 104 | 77 | 120 |
| | 0427LCS52 | | 2515603 | 1,2,4-Trimethylbenzene | 104 | 77 | 120 |
| | 0427LCS52 | | 2515592 | 1,2-Dibromo-3-chloropropane | 99 | 65 | 117 |
| | 0427LCS52 | | 2515603 | 1,2-Dibromo-3-chloropropane | 99 | 65 | 117 |
| | 0427LCS52 | | 2515592 | 1,2-Dibromoethane | 107 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,2-Dibromoethane | 107 | 77 | 117 |
| | 0427LCS52 | | 2515592 | 1,2-Dichlorobenzene | 101 | 76 | 116 |
| | 0427LCS52 | | 2515603 | 1,2-Dichlorobenzene | 101 | 76 | 116 |
| | 0427LCS52 | | 2515603 | 1,2-Dichloroethane | 103 | 74 | 120 |
| | 0427LCS52 | | 2515592 | 1,2-Dichloroethane | 103 | 74 | 120 |
| | 0427LCS52 | | 2515603 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 0427LCS52 | | 2515592 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 0427LCS52 | | 2515603 | 1,3,5-Trimethylbenzene | 106 | 77 | 117 |
| | 0427LCS52 | | 2515592 | 1,3,5-Trimethylbenzene | 106 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,3-Dichlorobenzene | 104 | 75 | 115 |
| | 0427LCS52 | | 2515592 | 1,3-Dichlorobenzene | 104 | 75 | 115 |
| | 0427LCS52 | | 2515603 | 1,3-Dichloropropane | 98.5 | 75 | 115 |
| | 0427LCS52 | | 2515592 | 1,3-Dichloropropane | 98.5 | 75 | 115 |
| | 0427LCS52 | | 2515592 | 1,4-Dichlorobenzene | 99.5 | 77 | 117 |
| | 0427LCS52 | | 2515603 | 1,4-Dichlorobenzene | 99.5 | 77 | 117 |
| | 0427LCS52 | | 2515592 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 0427LCS52 | | 2515603 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 0427LCS52 | | 2515603 | 2-Butanone | 102 | 57 | 120 |
| | 0427LCS52 | | 2515592 | 2-Butanone | 102 | 57 | 120 |
| | 0427LCS52 | | 2515603 | 2-Chlorotoluene | 104 | 76 | 116 |
| | 0427LCS52 | | 2515592 | 2-Chlorotoluene | 104 | 76 | 116 |
| | 0427LCS52 | | 2515592 | 2-Hexanone | 98 | 57 | 121 |
| | 0427LCS52 | | 2515603 | 2-Hexanone | 98 | 57 | 121 |
| | 0427LCS52 | | 2515592 | 4-Chlorotoluene | 106 | 78 | 118 |
| | 0427LCS52 | | 2515603 | 4-Chlorotoluene | 106 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52 | WATER | 2515592 | 4-Methyl-2-Pentanone | 99.2 | 65 | 118 |
| | 0427LCS52 | | 2515603 | 4-Methyl-2-Pentanone | 99.2 | 65 | 118 |
| | 0427LCS52 | | 2515592 | Acetone | 109 | 48 | 130 |
| | 0427LCS52 | | 2515603 | Acetone | 109 | 48 | 130 |
| | 0427LCS52 | | 2515603 | Benzene | 102 | 77 | 118 |
| | 0427LCS52 | | 2515592 | Benzene | 102 | 77 | 118 |
| | 0427LCS52 | | 2515603 | Bromobenzene | 102 | 75 | 115 |
| | 0427LCS52 | | 2515592 | Bromobenzene | 102 | 75 | 115 |
| | 0427LCS52 | | 2515592 | Bromochloromethane | 105 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Bromochloromethane | 105 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Bromodichloromethane | 107 | 78 | 118 |
| | 0427LCS52 | | 2515592 | Bromodichloromethane | 107 | 78 | 118 |
| | 0427LCS52 | | 2515592 | Bromoform | 118 | 74 | 121 |
| | 0427LCS52 | | 2515603 | Bromoform | 118 | 74 | 121 |
| | 0427LCS52 | | 2515592 | Bromomethane | 91.5 | 42 | 154 |
| | 0427LCS52 | | 2515603 | Bromomethane | 91.5 | 42 | 154 |
| | 0427LCS52 | | 2515603 | **Carbon Disulfide** | **110** | **56** | **104** |
| | 0427LCS52 | | 2515592 | **Carbon Disulfide** | **110** | **56** | **104** |
| | 0427LCS52 | | 2515592 | Carbon tetrachloride | 120 | 80 | 120 |
| | 0427LCS52 | | 2515603 | Carbon tetrachloride | 120 | 80 | 120 |
| | 0427LCS52 | | 2515592 | Chlorobenzene | 102 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Chlorobenzene | 102 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Chloroethane | 105 | 51 | 133 |
| | 0427LCS52 | | 2515592 | Chloroethane | 105 | 51 | 133 |
| | 0427LCS52 | | 2515592 | Chloroform | 100 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Chloroform | 100 | 78 | 118 |
| | 0427LCS52 | | 2515592 | Chloromethane | 98.5 | 46 | 142 |
| | 0427LCS52 | | 2515603 | Chloromethane | 98.5 | 46 | 142 |
| | 0427LCS52 | | 2515592 | Cis-1,2-DCE | 104 | 75 | 115 |
| | 0427LCS52 | | 2515603 | Cis-1,2-DCE | 104 | 75 | 115 |
| | 0427LCS52 | | 2515592 | cis-1,3-Dichloropropene | 111 | 76 | 113 |
| | 0427LCS52 | | 2515603 | cis-1,3-Dichloropropene | 111 | 76 | 113 |
| | 0427LCS52 | | 2515592 | Dibromochloromethane | 112 | 76 | 116 |
| | 0427LCS52 | | 2515603 | Dibromochloromethane | 112 | 76 | 116 |
| | 0427LCS52 | | 2515603 | Dibromomethane | 104 | 77 | 117 |
| | 0427LCS52 | | 2515592 | Dibromomethane | 104 | 77 | 117 |
| | 0427LCS52 | | 2515603 | Dichlorodifluoromethane | 104 | 56 | 140 |
| | 0427LCS52 | | 2515592 | Dichlorodifluoromethane | 104 | 56 | 140 |
| | 0427LCS52 | | 2515592 | Ethylbenzene | 103 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Ethylbenzene | 103 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Hexachlorobutadiene | 116 | 73 | 123 |
| | 0427LCS52 | | 2515592 | Hexachlorobutadiene | 116 | 73 | 123 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52 | WATER | 2515592 | Isopropylbenzene | 108 | 71 | 113 |
| | 0427LCS52 | | 2515603 | Isopropylbenzene | 108 | 71 | 113 |
| | 0427LCS52 | | 2515592 | m,p-Xylene | 102 | 78 | 118 |
| | 0427LCS52 | | 2515603 | m,p-Xylene | 102 | 78 | 118 |
| | 0427LCS52 | | 2515603 | Methyl tert-Butyl Ether | 99 | 58 | 116 |
| | 0427LCS52 | | 2515592 | Methyl tert-Butyl Ether | 99 | 58 | 116 |
| | 0427LCS52 | | 2515592 | Methylene chloride | 115 | 71 | 119 |
| | 0427LCS52 | | 2515603 | Methylene chloride | 115 | 71 | 119 |
| | 0427LCS52 | | 2515592 | Naphthalene | 99 | 62 | 121 |
| | 0427LCS52 | | 2515603 | Naphthalene | 99 | 62 | 121 |
| | 0427LCS52 | | 2515592 | n-Butylbenzene | 110 | 76 | 117 |
| | 0427LCS52 | | 2515603 | n-Butylbenzene | 110 | 76 | 117 |
| | 0427LCS52 | | 2515592 | n-Propylbenzene | 108 | 76 | 116 |
| | 0427LCS52 | | 2515603 | n-Propylbenzene | 108 | 76 | 116 |
| | 0427LCS52 | | 2515603 | o-Xylene | 104 | 77 | 117 |
| | 0427LCS52 | | 2515592 | o-Xylene | 104 | 77 | 117 |
| | 0427LCS52 | | 2515603 | p-Isopropyltoluene | 108 | 76 | 113 |
| | 0427LCS52 | | 2515592 | p-Isopropyltoluene | 108 | 76 | 113 |
| | 0427LCS52 | | 2515603 | Sec-Butylbenzene | 108 | 80 | 120 |
| | 0427LCS52 | | 2515592 | Sec-Butylbenzene | 108 | 80 | 120 |
| | 0427LCS52 | | 2515592 | Styrene | 108 | 77 | 117 |
| | 0427LCS52 | | 2515603 | Styrene | 108 | 77 | 117 |
| | 0427LCS52 | | 2515603 | tert-Butylbenzene | 108 | 76 | 116 |
| | 0427LCS52 | | 2515592 | tert-Butylbenzene | 108 | 76 | 116 |
| | 0427LCS52 | | 2515592 | Tetrachloroethene | 110 | 77 | 117 |
| | 0427LCS52 | | 2515603 | Tetrachloroethene | 110 | 77 | 117 |
| | 0427LCS52 | | 2515603 | Toluene | 107 | 73 | 120 |
| | 0427LCS52 | | 2515592 | Toluene | 107 | 73 | 120 |
| | 0427LCS52 | | 2515592 | trans-1,2-Dichloroethene | 106 | 80 | 120 |
| | 0427LCS52 | | 2515603 | trans-1,2-Dichloroethene | 106 | 80 | 120 |
| | 0427LCS52 | | 2515603 | trans-1,3-Dichloropropene | 113 | 72 | 117 |
| | 0427LCS52 | | 2515592 | trans-1,3-Dichloropropene | 113 | 72 | 117 |
| | 0427LCS52 | | 2515603 | Trichloroethene | 112 | 78 | 122 |
| | 0427LCS52 | | 2515592 | Trichloroethene | 112 | 78 | 122 |
| | 0427LCS52 | | 2515592 | Trichlorofluoromethane | 121 | 65 | 190 |
| | 0427LCS52 | | 2515603 | Trichlorofluoromethane | 121 | 65 | 190 |
| | 0427LCS52 | | 2515592 | Vinyl chloride | 113 | 49 | 136 |
| | 0427LCS52 | | 2515603 | Vinyl chloride | 113 | 49 | 136 |
| | 0427LCS52 | | 2515603 | Xylenes, Total | 102 | 77 | 117 |
| | 0427LCS52 | | 2515592 | Xylenes, Total | 102 | 77 | 117 |
| | 0427LCS52D | | 2515592 | **1,1,1,2-Tetrachloroethane** | **118** | **77** | **117** |
| | 0427LCS52D | | 2515603 | **1,1,1,2-Tetrachloroethane** | **118** | **77** | **117** |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52D | WATER | 2515592 | 1,1,1-Trichloroethane | 116 | 78 | 118 |
| | 0427LCS52D | | 2515603 | 1,1,1-Trichloroethane | 116 | 78 | 118 |
| | 0427LCS52D | | 2515603 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 0427LCS52D | | 2515592 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 0427LCS52D | | 2515592 | 1,1,2-Trichloroethane | 109 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 1,1,2-Trichloroethane | 109 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0427LCS52D | | 2515592 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0427LCS52D | | 2515603 | 1,1-Dichloroethene | 109 | 66 | 133 |
| | 0427LCS52D | | 2515592 | 1,1-Dichloroethene | 109 | 66 | 133 |
| | 0427LCS52D | | 2515592 | **1,1-Dichloropropene** | **116** | **75** | **115** |
| | 0427LCS52D | | 2515603 | **1,1-Dichloropropene** | **116** | **75** | **115** |
| | 0427LCS52D | | 2515603 | 1,2,3-Trichlorobenzene | 108 | 66 | 123 |
| | 0427LCS52D | | 2515592 | 1,2,3-Trichlorobenzene | 108 | 66 | 123 |
| | 0427LCS52D | | 2515603 | 1,2,3-Trichloropropane | 96 | 84 | 118 |
| | 0427LCS52D | | 2515592 | 1,2,3-Trichloropropane | 96 | 84 | 118 |
| | 0427LCS52D | | 2515592 | 1,2,4-Trichlorobenzene | 110 | 73 | 121 |
| | 0427LCS52D | | 2515603 | 1,2,4-Trichlorobenzene | 110 | 73 | 121 |
| | 0427LCS52D | | 2515603 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 0427LCS52D | | 2515592 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 0427LCS52D | | 2515603 | 1,2-Dibromo-3-chloropropane | 102 | 65 | 117 |
| | 0427LCS52D | | 2515592 | 1,2-Dibromo-3-chloropropane | 102 | 65 | 117 |
| | 0427LCS52D | | 2515592 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0427LCS52D | | 2515603 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0427LCS52D | | 2515603 | 1,2-Dichlorobenzene | 103 | 76 | 116 |
| | 0427LCS52D | | 2515592 | 1,2-Dichlorobenzene | 103 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 0427LCS52D | | 2515592 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 0427LCS52D | | 2515592 | 1,2-Dichloropropane | 103 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 1,2-Dichloropropane | 103 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 1,3,5-Trimethylbenzene | 109 | 77 | 117 |
| | 0427LCS52D | | 2515592 | 1,3,5-Trimethylbenzene | 109 | 77 | 117 |
| | 0427LCS52D | | 2515603 | 1,3-Dichlorobenzene | 106 | 75 | 115 |
| | 0427LCS52D | | 2515592 | 1,3-Dichlorobenzene | 106 | 75 | 115 |
| | 0427LCS52D | | 2515592 | 1,3-Dichloropropane | 99.5 | 75 | 115 |
| | 0427LCS52D | | 2515603 | 1,3-Dichloropropane | 99.5 | 75 | 115 |
| | 0427LCS52D | | 2515603 | 1,4-Dichlorobenzene | 101 | 77 | 117 |
| | 0427LCS52D | | 2515592 | 1,4-Dichlorobenzene | 101 | 77 | 117 |
| | 0427LCS52D | | 2515603 | 2,2-Dichloropropane | 116 | 72 | 128 |
| | 0427LCS52D | | 2515592 | 2,2-Dichloropropane | 116 | 72 | 128 |
| | 0427LCS52D | | 2515592 | 2-Butanone | 105 | 57 | 120 |
| | 0427LCS52D | | 2515603 | 2-Butanone | 105 | 57 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52D | WATER | 2515603 | 2-Chlorotoluene | 107 | 76 | 116 |
| | 0427LCS52D | | 2515592 | 2-Chlorotoluene | 107 | 76 | 116 |
| | 0427LCS52D | | 2515603 | 2-Hexanone | 101 | 57 | 121 |
| | 0427LCS52D | | 2515592 | 2-Hexanone | 101 | 57 | 121 |
| | 0427LCS52D | | 2515592 | 4-Chlorotoluene | 110 | 78 | 118 |
| | 0427LCS52D | | 2515603 | 4-Chlorotoluene | 110 | 78 | 118 |
| | 0427LCS52D | | 2515603 | 4-Methyl-2-Pentanone | 102 | 65 | 118 |
| | 0427LCS52D | | 2515592 | 4-Methyl-2-Pentanone | 102 | 65 | 118 |
| | 0427LCS52D | | 2515603 | Acetone | 113 | 48 | 130 |
| | 0427LCS52D | | 2515592 | Acetone | 113 | 48 | 130 |
| | 0427LCS52D | | 2515592 | Benzene | 105 | 77 | 118 |
| | 0427LCS52D | | 2515603 | Benzene | 105 | 77 | 118 |
| | 0427LCS52D | | 2515603 | Bromobenzene | 104 | 75 | 115 |
| | 0427LCS52D | | 2515592 | Bromobenzene | 104 | 75 | 115 |
| | 0427LCS52D | | 2515603 | Bromochloromethane | 105 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Bromochloromethane | 105 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Bromodichloromethane | 110 | 78 | 118 |
| | 0427LCS52D | | 2515603 | Bromodichloromethane | 110 | 78 | 118 |
| | 0427LCS52D | | 2515603 | Bromoform | 118 | 74 | 121 |
| | 0427LCS52D | | 2515592 | Bromoform | 118 | 74 | 121 |
| | 0427LCS52D | | 2515603 | Bromomethane | 92.5 | 42 | 154 |
| | 0427LCS52D | | 2515592 | Bromomethane | 92.5 | 42 | 154 |
| | 0427LCS52D | | 2515592 | **Carbon Disulfide** | **112** | **56** | **104** |
| | 0427LCS52D | | 2515603 | **Carbon Disulfide** | **112** | **56** | **104** |
| | 0427LCS52D | | 2515592 | **Carbon tetrachloride** | **124** | **80** | **120** |
| | 0427LCS52D | | 2515603 | **Carbon tetrachloride** | **124** | **80** | **120** |
| | 0427LCS52D | | 2515603 | Chlorobenzene | 105 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Chlorobenzene | 105 | 78 | 118 |
| | 0427LCS52D | | 2515603 | Chloroethane | 110 | 51 | 133 |
| | 0427LCS52D | | 2515592 | Chloroethane | 110 | 51 | 133 |
| | 0427LCS52D | | 2515592 | Chloroform | 103 | 78 | 118 |
| | 0427LCS52D | | 2515603 | Chloroform | 103 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Chloromethane | 99 | 46 | 142 |
| | 0427LCS52D | | 2515603 | Chloromethane | 99 | 46 | 142 |
| | 0427LCS52D | | 2515592 | Cis-1,2-DCE | 108 | 75 | 115 |
| | 0427LCS52D | | 2515603 | Cis-1,2-DCE | 108 | 75 | 115 |
| | 0427LCS52D | | 2515592 | cis-1,3-Dichloropropene | 112 | 76 | 113 |
| | 0427LCS52D | | 2515603 | cis-1,3-Dichloropropene | 112 | 76 | 113 |
| | 0427LCS52D | | 2515592 | Dibromochloromethane | 116 | 76 | 116 |
| | 0427LCS52D | | 2515603 | Dibromochloromethane | 116 | 76 | 116 |
| | 0427LCS52D | | 2515592 | Dibromomethane | 106 | 77 | 117 |
| | 0427LCS52D | | 2515603 | Dibromomethane | 106 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52D | WATER | 2515603 | Dichlorodifluoromethane | 108 | 56 | 140 |
| | 0427LCS52D | | 2515592 | Dichlorodifluoromethane | 108 | 56 | 140 |
| | 0427LCS52D | | 2515603 | Ethylbenzene | 107 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Ethylbenzene | 107 | 78 | 118 |
| | 0427LCS52D | | 2515592 | Hexachlorobutadiene | 116 | 73 | 123 |
| | 0427LCS52D | | 2515603 | Hexachlorobutadiene | 116 | 73 | 123 |
| | 0427LCS52D | | 2515592 | Isopropylbenzene | 111 | 71 | 113 |
| | 0427LCS52D | | 2515603 | Isopropylbenzene | 111 | 71 | 113 |
| | 0427LCS52D | | 2515592 | m,p-Xylene | 105 | 78 | 118 |
| | 0427LCS52D | | 2515603 | m,p-Xylene | 105 | 78 | 118 |
| | 0427LCS52D | | 2515603 | Methyl tert-Butyl Ether | 102 | 58 | 116 |
| | 0427LCS52D | | 2515592 | Methyl tert-Butyl Ether | 102 | 58 | 116 |
| | 0427LCS52D | | 2515592 | Methylene chloride | 116 | 71 | 119 |
| | 0427LCS52D | | 2515603 | Methylene chloride | 116 | 71 | 119 |
| | 0427LCS52D | | 2515592 | Naphthalene | 100 | 62 | 121 |
| | 0427LCS52D | | 2515603 | Naphthalene | 100 | 62 | 121 |
| | 0427LCS52D | | 2515603 | n-Butylbenzene | 111 | 76 | 117 |
| | 0427LCS52D | | 2515592 | n-Butylbenzene | 111 | 76 | 117 |
| | 0427LCS52D | | 2515603 | n-Propylbenzene | 112 | 76 | 116 |
| | 0427LCS52D | | 2515592 | n-Propylbenzene | 112 | 76 | 116 |
| | 0427LCS52D | | 2515603 | o-Xylene | 108 | 77 | 117 |
| | 0427LCS52D | | 2515592 | o-Xylene | 108 | 77 | 117 |
| | 0427LCS52D | | 2515603 | p-Isopropyltoluene | 111 | 76 | 113 |
| | 0427LCS52D | | 2515592 | p-Isopropyltoluene | 111 | 76 | 113 |
| | 0427LCS52D | | 2515592 | Sec-Butylbenzene | 113 | 80 | 120 |
| | 0427LCS52D | | 2515603 | Sec-Butylbenzene | 113 | 80 | 120 |
| | 0427LCS52D | | 2515592 | Styrene | 110 | 77 | 117 |
| | 0427LCS52D | | 2515603 | Styrene | 110 | 77 | 117 |
| | 0427LCS52D | | 2515603 | tert-Butylbenzene | 112 | 76 | 116 |
| | 0427LCS52D | | 2515592 | tert-Butylbenzene | 112 | 76 | 116 |
| | 0427LCS52D | | 2515592 | Tetrachloroethene | 113 | 77 | 117 |
| | 0427LCS52D | | 2515603 | Tetrachloroethene | 113 | 77 | 117 |
| | 0427LCS52D | | 2515603 | Toluene | 109 | 73 | 120 |
| | 0427LCS52D | | 2515592 | Toluene | 109 | 73 | 120 |
| | 0427LCS52D | | 2515603 | trans-1,2-Dichloroethene | 106 | 80 | 120 |
| | 0427LCS52D | | 2515592 | trans-1,2-Dichloroethene | 106 | 80 | 120 |
| | 0427LCS52D | | 2515603 | trans-1,3-Dichloropropene | 114 | 72 | 117 |
| | 0427LCS52D | | 2515592 | trans-1,3-Dichloropropene | 114 | 72 | 117 |
| | 0427LCS52D | | 2515592 | Trichloroethene | 114 | 78 | 122 |
| | 0427LCS52D | | 2515603 | Trichloroethene | 114 | 78 | 122 |
| | 0427LCS52D | | 2515592 | Trichlorofluoromethane | 123 | 65 | 190 |
| | 0427LCS52D | | 2515603 | Trichlorofluoromethane | 123 | 65 | 190 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0427LCS52D | WATER | 2515592 | Vinyl chloride | 118 | 49 | 136 |
| | 0427LCS52D | | 2515603 | Vinyl chloride | 118 | 49 | 136 |
| | 0427LCS52D | | 2515592 | Xylenes, Total | 106 | 77 | 117 |
| | 0427LCS52D | | 2515603 | Xylenes, Total | 106 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 1,1,1,2-Tetrachloroethane | 114 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 1,1,1-Trichloroethane | 117 | 78 | 118 |
| | 0429LCS51 | | 2515603 | 1,1,2,2-Tetrachloroethane | 89 | 73 | 119 |
| | 0429LCS51 | | 2515603 | 1,1,2-Trichloroethane | 107 | 76 | 116 |
| | 0429LCS51 | | 2515603 | 1,1-Dichloroethane | 106 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 1,1-Dichloroethene | 108 | 66 | 133 |
| | 0429LCS51 | | 2515603 | 1,1-Dichloropropene | 115 | 75 | 115 |
| | 0429LCS51 | | 2515603 | 1,2,3-Trichlorobenzene | 104 | 66 | 123 |
| | 0429LCS51 | | 2515603 | 1,2,3-Trichloropropane | 91.5 | 84 | 118 |
| | 0429LCS51 | | 2515603 | 1,2,4-Trichlorobenzene | 106 | 73 | 121 |
| | 0429LCS51 | | 2515603 | 1,2,4-Trimethylbenzene | 103 | 77 | 120 |
| | 0429LCS51 | | 2515603 | 1,2-Dibromo-3-chloropropane | 95.5 | 65 | 117 |
| | 0429LCS51 | | 2515603 | 1,2-Dibromoethane | 102 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 1,2-Dichlorobenzene | 100 | 76 | 116 |
| | 0429LCS51 | | 2515603 | 1,2-Dichloroethane | 102 | 74 | 120 |
| | 0429LCS51 | | 2515603 | 1,2-Dichloropropane | 103 | 76 | 116 |
| | 0429LCS51 | | 2515603 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 1,3-Dichlorobenzene | 102 | 75 | 115 |
| | 0429LCS51 | | 2515603 | 1,3-Dichloropropane | 97.5 | 75 | 115 |
| | 0429LCS51 | | 2515603 | 1,4-Dichlorobenzene | 99.5 | 77 | 117 |
| | 0429LCS51 | | 2515603 | 2,2-Dichloropropane | 120 | 72 | 128 |
| | 0429LCS51 | | 2515603 | 2-Butanone | 95.2 | 57 | 120 |
| | 0429LCS51 | | 2515603 | 2-Chlorotoluene | 102 | 76 | 116 |
| | 0429LCS51 | | 2515603 | 2-Hexanone | 91.2 | 57 | 121 |
| | 0429LCS51 | | 2515603 | 4-Chlorotoluene | 104 | 78 | 118 |
| | 0429LCS51 | | 2515603 | 4-Methyl-2-Pentanone | 95.8 | 65 | 118 |
| | 0429LCS51 | | 2515603 | Acetone | 106 | 48 | 130 |
| | 0429LCS51 | | 2515603 | Benzene | 102 | 77 | 118 |
| | 0429LCS51 | | 2515603 | Bromobenzene | 102 | 75 | 115 |
| | 0429LCS51 | | 2515603 | Bromochloromethane | 105 | 78 | 118 |
| | 0429LCS51 | | 2515603 | Bromodichloromethane | 110 | 78 | 118 |
| | 0429LCS51 | | 2515603 | Bromoform | 116 | 74 | 121 |
| | 0429LCS51 | | 2515603 | Bromomethane | 98 | 42 | 154 |
| | 0429LCS51 | | 2515603 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 0429LCS51 | | 2515603 | **Carbon tetrachloride** | **124** | **80** | **120** |
| | 0429LCS51 | | 2515603 | Chlorobenzene | 99.5 | 78 | 118 |
| | 0429LCS51 | | 2515603 | Chloroethane | 106 | 51 | 133 |
| | 0429LCS51 | | 2515603 | Chloroform | 99.5 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0429LCS51 | WATER | 2515603 | Chloromethane | 86 | 46 | 142 |
| | 0429LCS51 | | 2515603 | Cis-1,2-DCE | 106 | 75 | 115 |
| | 0429LCS51 | | 2515603 | cis-1,3-Dichloropropene | 112 | 76 | 113 |
| | 0429LCS51 | | 2515603 | Dibromochloromethane | 112 | 76 | 116 |
| | 0429LCS51 | | 2515603 | Dibromomethane | 104 | 77 | 117 |
| | 0429LCS51 | | 2515603 | Dichlorodifluoromethane | 82 | 56 | 140 |
| | 0429LCS51 | | 2515603 | Ethylbenzene | 102 | 78 | 118 |
| | 0429LCS51 | | 2515603 | Hexachlorobutadiene | 114 | 73 | 123 |
| | 0429LCS51 | | 2515603 | Isopropylbenzene | 103 | 71 | 113 |
| | 0429LCS51 | | 2515603 | m,p-Xylene | 100 | 78 | 118 |
| | 0429LCS51 | | 2515603 | Methyl tert-Butyl Ether | 100 | 58 | 116 |
| | 0429LCS51 | | 2515603 | Methylene chloride | 110 | 71 | 119 |
| | 0429LCS51 | | 2515603 | Naphthalene | 96 | 62 | 121 |
| | 0429LCS51 | | 2515603 | n-Butylbenzene | 107 | 76 | 117 |
| | 0429LCS51 | | 2515603 | n-Propylbenzene | 106 | 76 | 116 |
| | 0429LCS51 | | 2515603 | o-Xylene | 102 | 77 | 117 |
| | 0429LCS51 | | 2515603 | p-Isopropyltoluene | 106 | 76 | 113 |
| | 0429LCS51 | | 2515603 | Sec-Butylbenzene | 108 | 80 | 120 |
| | 0429LCS51 | | 2515603 | Styrene | 106 | 77 | 117 |
| | 0429LCS51 | | 2515603 | tert-Butylbenzene | 106 | 76 | 116 |
| | 0429LCS51 | | 2515603 | Tetrachloroethene | 108 | 77 | 117 |
| | 0429LCS51 | | 2515603 | Toluene | 107 | 73 | 120 |
| | 0429LCS51 | | 2515603 | trans-1,2-Dichloroethene | 107 | 80 | 120 |
| | 0429LCS51 | | 2515603 | trans-1,3-Dichloropropene | 116 | 72 | 117 |
| | 0429LCS51 | | 2515603 | Trichloroethene | 112 | 78 | 122 |
| | 0429LCS51 | | 2515603 | Trichlorofluoromethane | 120 | 65 | 190 |
| | 0429LCS51 | | 2515603 | Vinyl chloride | 106 | 49 | 136 |
| | 0429LCS51 | | 2515603 | Xylenes, Total | 101 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 1,1,1,2-Tetrachloroethane | 105 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 1,1,1-Trichloroethane | 104 | 78 | 118 |
| | 0429LCS51D | | 2515603 | 1,1,2,2-Tetrachloroethane | 88.5 | 73 | 119 |
| | 0429LCS51D | | 2515603 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 0429LCS51D | | 2515603 | 1,1-Dichloroethane | 95 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 1,1-Dichloroethene | 98 | 66 | 133 |
| | 0429LCS51D | | 2515603 | 1,1-Dichloropropene | 102 | 75 | 115 |
| | 0429LCS51D | | 2515603 | 1,2,3-Trichlorobenzene | 98.5 | 66 | 123 |
| | 0429LCS51D | | 2515603 | 1,2,3-Trichloropropane | 92.5 | 84 | 118 |
| | 0429LCS51D | | 2515603 | 1,2,4-Trichlorobenzene | 97.5 | 73 | 121 |
| | 0429LCS51D | | 2515603 | 1,2,4-Trimethylbenzene | 92.5 | 77 | 120 |
| | 0429LCS51D | | 2515603 | 1,2-Dibromo-3-chloropropane | 99 | 65 | 117 |
| | 0429LCS51D | | 2515603 | 1,2-Dibromoethane | 100 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 1,2-Dichlorobenzene | 91.5 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0429LCS51D | WATER | 2515603 | 1,2-Dichloroethane | 95.5 | 74 | 120 |
| | 0429LCS51D | | 2515603 | 1,2-Dichloropropane | 94 | 76 | 116 |
| | 0429LCS51D | | 2515603 | 1,3,5-Trimethylbenzene | 93.5 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 1,3-Dichlorobenzene | 92 | 75 | 115 |
| | 0429LCS51D | | 2515603 | 1,3-Dichloropropane | 92 | 75 | 115 |
| | 0429LCS51D | | 2515603 | 1,4-Dichlorobenzene | 89.5 | 77 | 117 |
| | 0429LCS51D | | 2515603 | 2,2-Dichloropropane | 105 | 72 | 128 |
| | 0429LCS51D | | 2515603 | 2-Butanone | 106 | 57 | 120 |
| | 0429LCS51D | | 2515603 | 2-Chlorotoluene | 94 | 76 | 116 |
| | 0429LCS51D | | 2515603 | 2-Hexanone | 98 | 57 | 121 |
| | 0429LCS51D | | 2515603 | 4-Chlorotoluene | 95.5 | 78 | 118 |
| | 0429LCS51D | | 2515603 | 4-Methyl-2-Pentanone | 103 | 65 | 118 |
| | 0429LCS51D | | 2515603 | Acetone | 106 | 48 | 130 |
| | 0429LCS51D | | 2515603 | Benzene | 93.5 | 77 | 118 |
| | 0429LCS51D | | 2515603 | Bromobenzene | 92.5 | 75 | 115 |
| | 0429LCS51D | | 2515603 | Bromochloromethane | 95.5 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Bromodichloromethane | 100 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Bromoform | 116 | 74 | 121 |
| | 0429LCS51D | | 2515603 | Bromomethane | 83.5 | 42 | 154 |
| | 0429LCS51D | | 2515603 | Carbon Disulfide | 98.5 | 56 | 104 |
| | 0429LCS51D | | 2515603 | Carbon tetrachloride | 112 | 80 | 120 |
| | 0429LCS51D | | 2515603 | Chlorobenzene | 91.5 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Chloroethane | 96.5 | 51 | 133 |
| | 0429LCS51D | | 2515603 | Chloroform | 90.5 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Chloromethane | 78.5 | 46 | 142 |
| | 0429LCS51D | | 2515603 | Cis-1,2-DCE | 94 | 75 | 115 |
| | 0429LCS51D | | 2515603 | cis-1,3-Dichloropropene | 105 | 76 | 113 |
| | 0429LCS51D | | 2515603 | Dibromochloromethane | 106 | 76 | 116 |
| | 0429LCS51D | | 2515603 | Dibromomethane | 99 | 77 | 117 |
| | 0429LCS51D | | 2515603 | Dichlorodifluoromethane | 76.5 | 56 | 140 |
| | 0429LCS51D | | 2515603 | Ethylbenzene | 93 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Hexachlorobutadiene | 100 | 73 | 123 |
| | 0429LCS51D | | 2515603 | Isopropylbenzene | 96 | 71 | 113 |
| | 0429LCS51D | | 2515603 | m,p-Xylene | 90.8 | 78 | 118 |
| | 0429LCS51D | | 2515603 | Methyl tert-Butyl Ether | 98 | 58 | 116 |
| | 0429LCS51D | | 2515603 | Methylene chloride | 98 | 71 | 119 |
| | 0429LCS51D | | 2515603 | Naphthalene | 97.5 | 62 | 121 |
| | 0429LCS51D | | 2515603 | n-Butylbenzene | 94 | 76 | 117 |
| | 0429LCS51D | | 2515603 | n-Propylbenzene | 95.5 | 76 | 116 |
| | 0429LCS51D | | 2515603 | o-Xylene | 94 | 77 | 117 |
| | 0429LCS51D | | 2515603 | p-Isopropyltoluene | 95 | 76 | 113 |
| | 0429LCS51D | | 2515603 | Sec-Butylbenzene | 95.5 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0429LCS51D | WATER | 2515603 | Styrene | 98 | 77 | 117 |
| | 0429LCS51D | | 2515603 | tert-Butylbenzene | 95 | 76 | 116 |
| | 0429LCS51D | | 2515603 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 0429LCS51D | | 2515603 | Toluene | 98 | 73 | 120 |
| | 0429LCS51D | | 2515603 | trans-1,2-Dichloroethene | 95.5 | 80 | 120 |
| | 0429LCS51D | | 2515603 | trans-1,3-Dichloropropene | 109 | 72 | 117 |
| | 0429LCS51D | | 2515603 | Trichloroethene | 100 | 78 | 122 |
| | 0429LCS51D | | 2515603 | Trichlorofluoromethane | 106 | 65 | 190 |
| | 0429LCS51D | | 2515603 | Vinyl chloride | 93.5 | 49 | 136 |
| | 0429LCS51D | | 2515603 | Xylenes, Total | 91.8 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 1,1,1,2-Tetrachloroethane | 100 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 1,1,1-Trichloroethane | 106 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | 1,1,2,2-Tetrachloroethane | 104 | 73 | 119 |
| | 050410LCSA32 | | 2515638 | 1,1,2-Trichloroethane | 97.5 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 1,1-Dichloroethene | 102 | 66 | 133 |
| | 050410LCSA32 | | 2515638 | 1,1-Dichloropropene | 106 | 75 | 115 |
| | 050410LCSA32 | | 2515638 | 1,2,3-Trichlorobenzene | 110 | 66 | 123 |
| | 050410LCSA32 | | 2515638 | 1,2,3-Trichloropropane | 100 | 84 | 118 |
| | 050410LCSA32 | | 2515638 | 1,2,4-Trichlorobenzene | 106 | 73 | 121 |
| | 050410LCSA32 | | 2515638 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 050410LCSA32 | | 2515638 | 1,2-Dibromo-3-chloropropane | 99 | 65 | 117 |
| | 050410LCSA32 | | 2515638 | 1,2-Dibromoethane | 100 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 1,2-Dichlorobenzene | 99.5 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | 1,2-Dichloroethane | 99.5 | 74 | 120 |
| | 050410LCSA32 | | 2515638 | 1,2-Dichloropropane | 101 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 1,3-Dichlorobenzene | 100 | 75 | 115 |
| | 050410LCSA32 | | 2515638 | 1,3-Dichloropropane | 97 | 75 | 115 |
| | 050410LCSA32 | | 2515638 | 1,4-Dichlorobenzene | 99 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 050410LCSA32 | | 2515638 | 2-Butanone | 105 | 57 | 120 |
| | 050410LCSA32 | | 2515638 | 2-Chlorotoluene | 106 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | 2-Hexanone | 103 | 57 | 121 |
| | 050410LCSA32 | | 2515638 | 4-Chlorotoluene | 104 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | 4-Methyl-2-Pentanone | 100 | 65 | 118 |
| | 050410LCSA32 | | 2515638 | Acetone | 123 | 48 | 130 |
| | 050410LCSA32 | | 2515638 | Benzene | 109 | 77 | 118 |
| | 050410LCSA32 | | 2515638 | Bromobenzene | 98 | 75 | 115 |
| | 050410LCSA32 | | 2515638 | Bromochloromethane | 97 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Bromodichloromethane | 99 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Bromoform | 91 | 74 | 121 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050410LCSA32 | WATER | 2515638 | Bromomethane | 108 | 42 | 154 |
| | 050410LCSA32 | | 2515638 | **Carbon Disulfide** | **110** | **56** | **104** |
| | 050410LCSA32 | | 2515638 | Carbon tetrachloride | 107 | 80 | 120 |
| | 050410LCSA32 | | 2515638 | Chlorobenzene | 95.5 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Chloroethane | 103 | 51 | 133 |
| | 050410LCSA32 | | 2515638 | Chloroform | 96.5 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Chloromethane | 87 | 46 | 142 |
| | 050410LCSA32 | | 2515638 | Cis-1,2-DCE | 100 | 75 | 115 |
| | 050410LCSA32 | | 2515638 | cis-1,3-Dichloropropene | 96 | 76 | 113 |
| | 050410LCSA32 | | 2515638 | Dibromochloromethane | 91 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | Dibromomethane | 95 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | Dichlorodifluoromethane | 72 | 56 | 140 |
| | 050410LCSA32 | | 2515638 | Ethylbenzene | 102 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Hexachlorobutadiene | 108 | 73 | 123 |
| | 050410LCSA32 | | 2515638 | Isopropylbenzene | 110 | 71 | 113 |
| | 050410LCSA32 | | 2515638 | m,p-Xylene | 103 | 78 | 118 |
| | 050410LCSA32 | | 2515638 | Methyl tert-Butyl Ether | 109 | 58 | 116 |
| | 050410LCSA32 | | 2515638 | Methylene chloride | 98 | 71 | 119 |
| | 050410LCSA32 | | 2515638 | Naphthalene | 120 | 62 | 121 |
| | 050410LCSA32 | | 2515638 | n-Butylbenzene | 108 | 76 | 117 |
| | 050410LCSA32 | | 2515638 | n-Propylbenzene | 109 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | o-Xylene | 108 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | p-Isopropyltoluene | 112 | 76 | 113 |
| | 050410LCSA32 | | 2515638 | Sec-Butylbenzene | 110 | 80 | 120 |
| | 050410LCSA32 | | 2515638 | Styrene | 103 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | tert-Butylbenzene | 109 | 76 | 116 |
| | 050410LCSA32 | | 2515638 | Tetrachloroethene | 106 | 77 | 117 |
| | 050410LCSA32 | | 2515638 | Toluene | 107 | 73 | 120 |
| | 050410LCSA32 | | 2515638 | trans-1,2-Dichloroethene | 102 | 80 | 120 |
| | 050410LCSA32 | | 2515638 | trans-1,3-Dichloropropene | 94.5 | 72 | 117 |
| | 050410LCSA32 | | 2515638 | Trichloroethene | 98.5 | 78 | 122 |
| | 050410LCSA32 | | 2515638 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 050410LCSA32 | | 2515638 | Vinyl chloride | 77 | 49 | 136 |
| | 050410LCSA32 | | 2515638 | Xylenes, Total | 104 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 1,1,1,2-Tetrachloroethane | 101 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 1,1,1-Trichloroethane | 106 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | 1,1,2,2-Tetrachloroethane | 99.5 | 73 | 119 |
| | 050410LCSA32D | | 2515638 | 1,1,2-Trichloroethane | 95.5 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | 1,1-Dichloroethane | 104 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 1,1-Dichloroethene | 104 | 66 | 133 |
| | 050410LCSA32D | | 2515638 | 1,1-Dichloropropene | 108 | 75 | 115 |
| | 050410LCSA32D | | 2515638 | 1,2,3-Trichlorobenzene | 104 | 66 | 123 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050410LCSA32D | WATER | 2515638 | 1,2,3-Trichloropropane | 93.5 | 84 | 118 |
| | 050410LCSA32D | | 2515638 | 1,2,4-Trichlorobenzene | 102 | 73 | 121 |
| | 050410LCSA32D | | 2515638 | 1,2,4-Trimethylbenzene | 109 | 77 | 120 |
| | 050410LCSA32D | | 2515638 | 1,2-Dibromo-3-chloropropane | 90.5 | 65 | 117 |
| | 050410LCSA32D | | 2515638 | 1,2-Dibromoethane | 97.5 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 1,2-Dichlorobenzene | 98.5 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | 1,2-Dichloroethane | 98 | 74 | 120 |
| | 050410LCSA32D | | 2515638 | 1,2-Dichloropropane | 100 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 1,3-Dichlorobenzene | 102 | 75 | 115 |
| | 050410LCSA32D | | 2515638 | 1,3-Dichloropropane | 96 | 75 | 115 |
| | 050410LCSA32D | | 2515638 | 1,4-Dichlorobenzene | 97.5 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 050410LCSA32D | | 2515638 | 2-Butanone | 98 | 57 | 120 |
| | 050410LCSA32D | | 2515638 | 2-Chlorotoluene | 106 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | 2-Hexanone | 99.5 | 57 | 121 |
| | 050410LCSA32D | | 2515638 | 4-Chlorotoluene | 103 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | 4-Methyl-2-Pentanone | 94.8 | 65 | 118 |
| | 050410LCSA32D | | 2515638 | Acetone | 104 | 48 | 130 |
| | 050410LCSA32D | | 2515638 | Benzene | 111 | 77 | 118 |
| | 050410LCSA32D | | 2515638 | Bromobenzene | 98 | 75 | 115 |
| | 050410LCSA32D | | 2515638 | Bromochloromethane | 96 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Bromodichloromethane | 100 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Bromoform | 86.5 | 74 | 121 |
| | 050410LCSA32D | | 2515638 | Bromomethane | 116 | 42 | 154 |
| | 050410LCSA32D | | 2515638 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 050410LCSA32D | | 2515638 | Carbon tetrachloride | 110 | 80 | 120 |
| | 050410LCSA32D | | 2515638 | Chlorobenzene | 96.5 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Chloroethane | 103 | 51 | 133 |
| | 050410LCSA32D | | 2515638 | Chloroform | 96.5 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Chloromethane | 88.5 | 46 | 142 |
| | 050410LCSA32D | | 2515638 | Cis-1,2-DCE | 104 | 75 | 115 |
| | 050410LCSA32D | | 2515638 | cis-1,3-Dichloropropene | 98 | 76 | 113 |
| | 050410LCSA32D | | 2515638 | Dibromochloromethane | 90 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | Dibromomethane | 94.5 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | Dichlorodifluoromethane | 74 | 56 | 140 |
| | 050410LCSA32D | | 2515638 | Ethylbenzene | 104 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Hexachlorobutadiene | 105 | 73 | 123 |
| | 050410LCSA32D | | 2515638 | Isopropylbenzene | 108 | 71 | 113 |
| | 050410LCSA32D | | 2515638 | m,p-Xylene | 104 | 78 | 118 |
| | 050410LCSA32D | | 2515638 | Methyl tert-Butyl Ether | 105 | 58 | 116 |
| | 050410LCSA32D | | 2515638 | Methylene chloride | 99 | 71 | 119 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050410LCSA32D | WATER | 2515638 | Naphthalene | 110 | 62 | 121 |
| | 050410LCSA32D | | 2515638 | n-Butylbenzene | 110 | 76 | 117 |
| | 050410LCSA32D | | 2515638 | n-Propylbenzene | 112 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | o-Xylene | 110 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | p-Isopropyltoluene | 111 | 76 | 113 |
| | 050410LCSA32D | | 2515638 | Sec-Butylbenzene | 110 | 80 | 120 |
| | 050410LCSA32D | | 2515638 | Styrene | 104 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | tert-Butylbenzene | 109 | 76 | 116 |
| | 050410LCSA32D | | 2515638 | Tetrachloroethene | 106 | 77 | 117 |
| | 050410LCSA32D | | 2515638 | Toluene | 108 | 73 | 120 |
| | 050410LCSA32D | | 2515638 | trans-1,2-Dichloroethene | 105 | 80 | 120 |
| | 050410LCSA32D | | 2515638 | trans-1,3-Dichloropropene | 93 | 72 | 117 |
| | 050410LCSA32D | | 2515638 | Trichloroethene | 99.5 | 78 | 122 |
| | 050410LCSA32D | | 2515638 | Trichlorofluoromethane | 106 | 65 | 190 |
| | 050410LCSA32D | | 2515638 | Vinyl chloride | 80 | 49 | 136 |
| | 050410LCSA32D | | 2515638 | Xylenes, Total | 106 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 1,1,1,2-Tetrachloroethane | 107 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 1,1,1-Trichloroethane | 112 | 78 | 118 |
| | 0504LCS51 | | 2515619 | 1,1,2,2-Tetrachloroethane | 98 | 73 | 119 |
| | 0504LCS51 | | 2515619 | 1,1,2-Trichloroethane | 106 | 76 | 116 |
| | 0504LCS51 | | 2515619 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 1,1-Dichloroethene | 113 | 66 | 133 |
| | 0504LCS51 | | 2515619 | 1,1-Dichloropropene | 114 | 75 | 115 |
| | 0504LCS51 | | 2515619 | 1,2,3-Trichlorobenzene | 110 | 66 | 123 |
| | 0504LCS51 | | 2515619 | 1,2,3-Trichloropropane | 102 | 84 | 118 |
| | 0504LCS51 | | 2515619 | 1,2,4-Trichlorobenzene | 110 | 73 | 121 |
| | 0504LCS51 | | 2515619 | 1,2,4-Trimethylbenzene | 111 | 77 | 120 |
| | 0504LCS51 | | 2515619 | 1,2-Dibromo-3-chloropropane | 97 | 65 | 117 |
| | 0504LCS51 | | 2515619 | 1,2-Dibromoethane | 104 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 1,2-Dichlorobenzene | 105 | 76 | 116 |
| | 0504LCS51 | | 2515619 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 0504LCS51 | | 2515619 | 1,2-Dichloropropane | 108 | 76 | 116 |
| | 0504LCS51 | | 2515619 | 1,3,5-Trimethylbenzene | 112 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 1,3-Dichlorobenzene | 108 | 75 | 115 |
| | 0504LCS51 | | 2515619 | 1,3-Dichloropropane | 104 | 75 | 115 |
| | 0504LCS51 | | 2515619 | 1,4-Dichlorobenzene | 106 | 77 | 117 |
| | 0504LCS51 | | 2515619 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 0504LCS51 | | 2515619 | 2-Butanone | 96.5 | 57 | 120 |
| | 0504LCS51 | | 2515619 | 2-Chlorotoluene | 108 | 76 | 116 |
| | 0504LCS51 | | 2515619 | 2-Hexanone | 102 | 57 | 121 |
| | 0504LCS51 | | 2515619 | 4-Chlorotoluene | 108 | 78 | 118 |
| | 0504LCS51 | | 2515619 | 4-Methyl-2-Pentanone | 98 | 65 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS51 | WATER | 2515619 | Acetone | 94.5 | 48 | 130 |
| | 0504LCS51 | | 2515619 | Benzene | 106 | 77 | 118 |
| | 0504LCS51 | | 2515619 | Bromobenzene | 108 | 75 | 115 |
| | 0504LCS51 | | 2515619 | Bromochloromethane | 104 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Bromodichloromethane | 106 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Bromoform | 100 | 74 | 121 |
| | 0504LCS51 | | 2515619 | Bromomethane | 102 | 42 | 154 |
| | 0504LCS51 | | 2515619 | **Carbon Disulfide** | **112** | **56** | **104** |
| | 0504LCS51 | | 2515619 | Carbon tetrachloride | 111 | 80 | 120 |
| | 0504LCS51 | | 2515619 | Chlorobenzene | 108 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Chloroethane | 106 | 51 | 133 |
| | 0504LCS51 | | 2515619 | Chloroform | 104 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Chloromethane | 89.5 | 46 | 142 |
| | 0504LCS51 | | 2515619 | Cis-1,2-DCE | 108 | 75 | 115 |
| | 0504LCS51 | | 2515619 | cis-1,3-Dichloropropene | 108 | 76 | 113 |
| | 0504LCS51 | | 2515619 | Dibromochloromethane | 106 | 76 | 116 |
| | 0504LCS51 | | 2515619 | Dibromomethane | 105 | 77 | 117 |
| | 0504LCS51 | | 2515619 | Dichlorodifluoromethane | 84.5 | 56 | 140 |
| | 0504LCS51 | | 2515619 | Ethylbenzene | 111 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Hexachlorobutadiene | 107 | 73 | 123 |
| | 0504LCS51 | | 2515619 | Isopropylbenzene | 110 | 71 | 113 |
| | 0504LCS51 | | 2515619 | m,p-Xylene | 108 | 78 | 118 |
| | 0504LCS51 | | 2515619 | Methyl tert-Butyl Ether | 102 | 58 | 116 |
| | 0504LCS51 | | 2515619 | Methylene chloride | 112 | 71 | 119 |
| | 0504LCS51 | | 2515619 | Naphthalene | 107 | 62 | 121 |
| | 0504LCS51 | | 2515619 | **n-Butylbenzene** | **118** | **76** | **117** |
| | 0504LCS51 | | 2515619 | n-Propylbenzene | 114 | 76 | 116 |
| | 0504LCS51 | | 2515619 | o-Xylene | 110 | 77 | 117 |
| | 0504LCS51 | | 2515619 | p-Isopropyltoluene | 112 | 76 | 113 |
| | 0504LCS51 | | 2515619 | Sec-Butylbenzene | 114 | 80 | 120 |
| | 0504LCS51 | | 2515619 | Styrene | 111 | 77 | 117 |
| | 0504LCS51 | | 2515619 | tert-Butylbenzene | 112 | 76 | 116 |
| | 0504LCS51 | | 2515619 | Tetrachloroethene | 112 | 77 | 117 |
| | 0504LCS51 | | 2515619 | Toluene | 109 | 73 | 120 |
| | 0504LCS51 | | 2515619 | trans-1,2-Dichloroethene | 110 | 80 | 120 |
| | 0504LCS51 | | 2515619 | trans-1,3-Dichloropropene | 109 | 72 | 117 |
| | 0504LCS51 | | 2515619 | Trichloroethene | 110 | 78 | 122 |
| | 0504LCS51 | | 2515619 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 0504LCS51 | | 2515619 | Vinyl chloride | 95.5 | 49 | 136 |
| | 0504LCS51 | | 2515619 | Xylenes, Total | 109 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 1,1,1,2-Tetrachloroethane | 105 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 1,1,1-Trichloroethane | 108 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS51D | WATER | 2515619 | 1,1,2,2-Tetrachloroethane | 97 | 73 | 119 |
| | 0504LCS51D | | 2515619 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 0504LCS51D | | 2515619 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 1,1-Dichloroethene | 106 | 66 | 133 |
| | 0504LCS51D | | 2515619 | 1,1-Dichloropropene | 111 | 75 | 115 |
| | 0504LCS51D | | 2515619 | 1,2,3-Trichlorobenzene | 106 | 66 | 123 |
| | 0504LCS51D | | 2515619 | 1,2,3-Trichloropropane | 98.5 | 84 | 118 |
| | 0504LCS51D | | 2515619 | 1,2,4-Trichlorobenzene | 108 | 73 | 121 |
| | 0504LCS51D | | 2515619 | 1,2,4-Trimethylbenzene | 109 | 77 | 120 |
| | 0504LCS51D | | 2515619 | 1,2-Dibromo-3-chloropropane | 95.5 | 65 | 117 |
| | 0504LCS51D | | 2515619 | 1,2-Dibromoethane | 102 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 1,2-Dichlorobenzene | 104 | 76 | 116 |
| | 0504LCS51D | | 2515619 | 1,2-Dichloroethane | 104 | 74 | 120 |
| | 0504LCS51D | | 2515619 | 1,2-Dichloropropane | 105 | 76 | 116 |
| | 0504LCS51D | | 2515619 | 1,3,5-Trimethylbenzene | 109 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 1,3-Dichlorobenzene | 106 | 75 | 115 |
| | 0504LCS51D | | 2515619 | 1,3-Dichloropropane | 102 | 75 | 115 |
| | 0504LCS51D | | 2515619 | 1,4-Dichlorobenzene | 105 | 77 | 117 |
| | 0504LCS51D | | 2515619 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0504LCS51D | | 2515619 | 2-Chlorotoluene | 107 | 76 | 116 |
| | 0504LCS51D | | 2515619 | 2-Hexanone | 102 | 57 | 121 |
| | 0504LCS51D | | 2515619 | 4-Chlorotoluene | 109 | 78 | 118 |
| | 0504LCS51D | | 2515619 | 4-Methyl-2-Pentanone | 98.5 | 65 | 118 |
| | 0504LCS51D | | 2515619 | Acetone | 99.8 | 48 | 130 |
| | 0504LCS51D | | 2515619 | Benzene | 104 | 77 | 118 |
| | 0504LCS51D | | 2515619 | Bromobenzene | 106 | 75 | 115 |
| | 0504LCS51D | | 2515619 | Bromodichloromethane | 105 | 78 | 118 |
| | 0504LCS51D | | 2515619 | Bromoform | 97.5 | 74 | 121 |
| | 0504LCS51D | | 2515619 | Bromomethane | 97 | 42 | 154 |
| | 0504LCS51D | | 2515619 | **Carbon Disulfide** | **108** | **56** | **104** |
| | 0504LCS51D | | 2515619 | Carbon tetrachloride | 108 | 80 | 120 |
| | 0504LCS51D | | 2515619 | Chlorobenzene | 105 | 78 | 118 |
| | 0504LCS51D | | 2515619 | Chloroethane | 97 | 51 | 133 |
| | 0504LCS51D | | 2515619 | Chloromethane | 83.5 | 46 | 142 |
| | 0504LCS51D | | 2515619 | Cis-1,2-DCE | 106 | 75 | 115 |
| | 0504LCS51D | | 2515619 | cis-1,3-Dichloropropene | 106 | 76 | 113 |
| | 0504LCS51D | | 2515619 | Dibromochloromethane | 103 | 76 | 116 |
| | 0504LCS51D | | 2515619 | Dibromomethane | 104 | 77 | 117 |
| | 0504LCS51D | | 2515619 | Dichlorodifluoromethane | 81.5 | 56 | 140 |
| | 0504LCS51D | | 2515619 | Ethylbenzene | 108 | 78 | 118 |
| | 0504LCS51D | | 2515619 | Hexachlorobutadiene | 103 | 73 | 123 |
| | 0504LCS51D | | 2515619 | Isopropylbenzene | 110 | 71 | 113 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS51D | WATER | 2515619 | m,p-Xylene | 106 | 78 | 118 |
| | 0504LCS51D | | 2515619 | Methyl tert-Butyl Ether | 100 | 58 | 116 |
| | 0504LCS51D | | 2515619 | Methylene chloride | 110 | 71 | 119 |
| | 0504LCS51D | | 2515619 | Naphthalene | 104 | 62 | 121 |
| | 0504LCS51D | | 2515619 | n-Butylbenzene | 114 | 76 | 117 |
| | 0504LCS51D | | 2515619 | n-Propylbenzene | 110 | 76 | 116 |
| | 0504LCS51D | | 2515619 | o-Xylene | 108 | 77 | 117 |
| | 0504LCS51D | | 2515619 | p-Isopropyltoluene | 110 | 76 | 113 |
| | 0504LCS51D | | 2515619 | Sec-Butylbenzene | 112 | 80 | 120 |
| | 0504LCS51D | | 2515619 | Styrene | 109 | 77 | 117 |
| | 0504LCS51D | | 2515619 | tert-Butylbenzene | 110 | 76 | 116 |
| | 0504LCS51D | | 2515619 | Tetrachloroethene | 108 | 77 | 117 |
| | 0504LCS51D | | 2515619 | Toluene | 106 | 73 | 120 |
| | 0504LCS51D | | 2515619 | trans-1,2-Dichloroethene | 107 | 80 | 120 |
| | 0504LCS51D | | 2515619 | trans-1,3-Dichloropropene | 106 | 72 | 117 |
| | 0504LCS51D | | 2515619 | Trichloroethene | 108 | 78 | 122 |
| | 0504LCS51D | | 2515619 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 0504LCS51D | | 2515619 | Vinyl chloride | 94 | 49 | 136 |
| | 0504LCS51D | | 2515619 | Xylenes, Total | 107 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 1,1,1,2-Tetrachloroethane | 112 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 1,1,1-Trichloroethane | 115 | 78 | 118 |
| | 0504LCS52 | | 2515638 | 1,1,2,2-Tetrachloroethane | 106 | 73 | 119 |
| | 0504LCS52 | | 2515638 | 1,1,2-Trichloroethane | 111 | 76 | 116 |
| | 0504LCS52 | | 2515638 | 1,1-Dichloroethane | 114 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 1,1-Dichloroethene | 114 | 66 | 133 |
| | 0504LCS52 | | 2515638 | **1,1-Dichloropropene** | **118** | **75** | **115** |
| | 0504LCS52 | | 2515638 | 1,2,3-Trichlorobenzene | 117 | 66 | 123 |
| | 0504LCS52 | | 2515638 | 1,2,3-Trichloropropane | 106 | 84 | 118 |
| | 0504LCS52 | | 2515638 | 1,2,4-Trichlorobenzene | 116 | 73 | 121 |
| | 0504LCS52 | | 2515638 | 1,2,4-Trimethylbenzene | 117 | 77 | 120 |
| | 0504LCS52 | | 2515638 | 1,2-Dibromo-3-chloropropane | 106 | 65 | 117 |
| | 0504LCS52 | | 2515638 | 1,2-Dibromoethane | 111 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 1,2-Dichlorobenzene | 112 | 76 | 116 |
| | 0504LCS52 | | 2515638 | 1,2-Dichloroethane | 111 | 74 | 120 |
| | 0504LCS52 | | 2515638 | 1,2-Dichloropropane | 111 | 76 | 116 |
| | 0504LCS52 | | 2515638 | 1,3,5-Trimethylbenzene | 116 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 1,3-Dichlorobenzene | 113 | 75 | 115 |
| | 0504LCS52 | | 2515638 | 1,3-Dichloropropane | 108 | 75 | 115 |
| | 0504LCS52 | | 2515638 | 1,4-Dichlorobenzene | 112 | 77 | 117 |
| | 0504LCS52 | | 2515638 | 2,2-Dichloropropane | 112 | 72 | 128 |
| | 0504LCS52 | | 2515638 | 2-Butanone | 112 | 57 | 120 |
| | 0504LCS52 | | 2515638 | 2-Chlorotoluene | 113 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS52 | WATER | 2515638 | 2-Hexanone | 116 | 57 | 121 |
| | 0504LCS52 | | 2515638 | 4-Chlorotoluene | 115 | 78 | 118 |
| | 0504LCS52 | | 2515638 | 4-Methyl-2-Pentanone | 108 | 65 | 118 |
| | 0504LCS52 | | 2515638 | Acetone | 114 | 48 | 130 |
| | 0504LCS52 | | 2515638 | Benzene | 110 | 77 | 118 |
| | 0504LCS52 | | 2515638 | Bromobenzene | 112 | 75 | 115 |
| | 0504LCS52 | | 2515638 | Bromochloromethane | 110 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Bromodichloromethane | 110 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Bromoform | 104 | 74 | 121 |
| | 0504LCS52 | | 2515638 | Bromomethane | 97 | 42 | 154 |
| | 0504LCS52 | | 2515638 | **Carbon Disulfide** | **116** | **56** | **104** |
| | 0504LCS52 | | 2515638 | Carbon tetrachloride | 114 | 80 | 120 |
| | 0504LCS52 | | 2515638 | Chlorobenzene | 111 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Chloroethane | 106 | 51 | 133 |
| | 0504LCS52 | | 2515638 | Chloroform | 107 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Chloromethane | 94.5 | 46 | 142 |
| | 0504LCS52 | | 2515638 | Cis-1,2-DCE | 114 | 75 | 115 |
| | 0504LCS52 | | 2515638 | cis-1,3-Dichloropropene | 110 | 76 | 113 |
| | 0504LCS52 | | 2515638 | Dibromochloromethane | 109 | 76 | 116 |
| | 0504LCS52 | | 2515638 | Dibromomethane | 109 | 77 | 117 |
| | 0504LCS52 | | 2515638 | Dichlorodifluoromethane | 93.5 | 56 | 140 |
| | 0504LCS52 | | 2515638 | Ethylbenzene | 113 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Hexachlorobutadiene | 108 | 73 | 123 |
| | 0504LCS52 | | 2515638 | Isopropylbenzene | 112 | 71 | 113 |
| | 0504LCS52 | | 2515638 | m,p-Xylene | 110 | 78 | 118 |
| | 0504LCS52 | | 2515638 | Methyl tert-Butyl Ether | 110 | 58 | 116 |
| | 0504LCS52 | | 2515638 | Methylene chloride | 118 | 71 | 119 |
| | 0504LCS52 | | 2515638 | Naphthalene | 114 | 62 | 121 |
| | 0504LCS52 | | 2515638 | **n-Butylbenzene** | **124** | **76** | **117** |
| | 0504LCS52 | | 2515638 | **n-Propylbenzene** | **118** | **76** | **116** |
| | 0504LCS52 | | 2515638 | o-Xylene | 114 | 77 | 117 |
| | 0504LCS52 | | 2515638 | **p-Isopropyltoluene** | **118** | **76** | **113** |
| | 0504LCS52 | | 2515638 | Sec-Butylbenzene | 120 | 80 | 120 |
| | 0504LCS52 | | 2515638 | Styrene | 115 | 77 | 117 |
| | 0504LCS52 | | 2515638 | tert-Butylbenzene | 116 | 76 | 116 |
| | 0504LCS52 | | 2515638 | Tetrachloroethene | 114 | 77 | 117 |
| | 0504LCS52 | | 2515638 | Toluene | 112 | 73 | 120 |
| | 0504LCS52 | | 2515638 | trans-1,2-Dichloroethene | 113 | 80 | 120 |
| | 0504LCS52 | | 2515638 | trans-1,3-Dichloropropene | 112 | 72 | 117 |
| | 0504LCS52 | | 2515638 | Trichloroethene | 113 | 78 | 122 |
| | 0504LCS52 | | 2515638 | Trichlorofluoromethane | 110 | 65 | 190 |
| | 0504LCS52 | | 2515638 | Vinyl chloride | 99 | 49 | 136 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS52 | WATER | 2515638 | Xylenes, Total | 112 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 1,1,1,2-Tetrachloroethane | 112 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 1,1,1-Trichloroethane | 113 | 78 | 118 |
| | 0504LCS52D | | 2515638 | 1,1,2,2-Tetrachloroethane | 106 | 73 | 119 |
| | 0504LCS52D | | 2515638 | 1,1,2-Trichloroethane | 108 | 76 | 116 |
| | 0504LCS52D | | 2515638 | 1,1-Dichloroethane | 112 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 1,1-Dichloroethene | 116 | 66 | 133 |
| | 0504LCS52D | | 2515638 | 1,1-Dichloropropene | 115 | 75 | 115 |
| | 0504LCS52D | | 2515638 | 1,2,3-Trichlorobenzene | 118 | 66 | 123 |
| | 0504LCS52D | | 2515638 | 1,2,3-Trichloropropane | 107 | 84 | 118 |
| | 0504LCS52D | | 2515638 | 1,2,4-Trichlorobenzene | 118 | 73 | 121 |
| | 0504LCS52D | | 2515638 | 1,2,4-Trimethylbenzene | 118 | 77 | 120 |
| | 0504LCS52D | | 2515638 | 1,2-Dibromo-3-chloropropane | 108 | 65 | 117 |
| | 0504LCS52D | | 2515638 | 1,2-Dibromoethane | 109 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 1,2-Dichlorobenzene | 112 | 76 | 116 |
| | 0504LCS52D | | 2515638 | 1,2-Dichloroethane | 110 | 74 | 120 |
| | 0504LCS52D | | 2515638 | 1,2-Dichloropropane | 112 | 76 | 116 |
| | 0504LCS52D | | 2515638 | 1,3,5-Trimethylbenzene | 116 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 1,3-Dichlorobenzene | 112 | 75 | 115 |
| | 0504LCS52D | | 2515638 | 1,3-Dichloropropane | 110 | 75 | 115 |
| | 0504LCS52D | | 2515638 | 1,4-Dichlorobenzene | 112 | 77 | 117 |
| | 0504LCS52D | | 2515638 | 2,2-Dichloropropane | 109 | 72 | 128 |
| | 0504LCS52D | | 2515638 | 2-Butanone | 114 | 57 | 120 |
| | 0504LCS52D | | 2515638 | 2-Chlorotoluene | 115 | 76 | 116 |
| | 0504LCS52D | | 2515638 | 2-Hexanone | 116 | 57 | 121 |
| | 0504LCS52D | | 2515638 | 4-Chlorotoluene | 116 | 78 | 118 |
| | 0504LCS52D | | 2515638 | 4-Methyl-2-Pentanone | 108 | 65 | 118 |
| | 0504LCS52D | | 2515638 | Acetone | 110 | 48 | 130 |
| | 0504LCS52D | | 2515638 | Benzene | 110 | 77 | 118 |
| | 0504LCS52D | | 2515638 | Bromobenzene | 112 | 75 | 115 |
| | 0504LCS52D | | 2515638 | Bromochloromethane | 106 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Bromodichloromethane | 110 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Bromoform | 105 | 74 | 121 |
| | 0504LCS52D | | 2515638 | Bromomethane | 106 | 42 | 154 |
| | 0504LCS52D | | 2515638 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 0504LCS52D | | 2515638 | Carbon tetrachloride | 112 | 80 | 120 |
| | 0504LCS52D | | 2515638 | Chlorobenzene | 110 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Chloroethane | 102 | 51 | 133 |
| | 0504LCS52D | | 2515638 | Chloroform | 106 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Chloromethane | 92.5 | 46 | 142 |
| | 0504LCS52D | | 2515638 | Cis-1,2-DCE | 112 | 75 | 115 |
| | 0504LCS52D | | 2515638 | cis-1,3-Dichloropropene | 111 | 76 | 113 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0504LCS52D | WATER | 2515638 | Dibromochloromethane | 110 | 76 | 116 |
| | 0504LCS52D | | 2515638 | Dibromomethane | 107 | 77 | 117 |
| | 0504LCS52D | | 2515638 | Dichlorodifluoromethane | 92 | 56 | 140 |
| | 0504LCS52D | | 2515638 | Ethylbenzene | 114 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Hexachlorobutadiene | 112 | 73 | 123 |
| | 0504LCS52D | | 2515638 | **Isopropylbenzene** | **118** | **71** | **113** |
| | 0504LCS52D | | 2515638 | m,p-Xylene | 112 | 78 | 118 |
| | 0504LCS52D | | 2515638 | Methyl tert-Butyl Ether | 110 | 58 | 116 |
| | 0504LCS52D | | 2515638 | Methylene chloride | 116 | 71 | 119 |
| | 0504LCS52D | | 2515638 | Naphthalene | 118 | 62 | 121 |
| | 0504LCS52D | | 2515638 | **n-Butylbenzene** | **124** | **76** | **117** |
| | 0504LCS52D | | 2515638 | **n-Propylbenzene** | **118** | **76** | **116** |
| | 0504LCS52D | | 2515638 | o-Xylene | 116 | 77 | 117 |
| | 0504LCS52D | | 2515638 | **p-Isopropyltoluene** | **119** | **76** | **113** |
| | 0504LCS52D | | 2515638 | Sec-Butylbenzene | 120 | 80 | 120 |
| | 0504LCS52D | | 2515638 | Styrene | 117 | 77 | 117 |
| | 0504LCS52D | | 2515638 | **tert-Butylbenzene** | **118** | **76** | **116** |
| | 0504LCS52D | | 2515638 | Tetrachloroethene | 115 | 77 | 117 |
| | 0504LCS52D | | 2515638 | Toluene | 112 | 73 | 120 |
| | 0504LCS52D | | 2515638 | trans-1,2-Dichloroethene | 113 | 80 | 120 |
| | 0504LCS52D | | 2515638 | trans-1,3-Dichloropropene | 110 | 72 | 117 |
| | 0504LCS52D | | 2515638 | Trichloroethene | 113 | 78 | 122 |
| | 0504LCS52D | | 2515638 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 0504LCS52D | | 2515638 | Vinyl chloride | 96.5 | 49 | 136 |
| | 0504LCS52D | | 2515638 | Xylenes, Total | 113 | 77 | 117 |
| | 0505LCS52 | | 2515679 | 1,1,1,2-Tetrachloroethane | 111 | 77 | 117 |
| | 0505LCS52 | | 2515679 | 1,1,1-Trichloroethane | 113 | 78 | 118 |
| | 0505LCS52 | | 2515679 | 1,1,2,2-Tetrachloroethane | 106 | 73 | 119 |
| | 0505LCS52 | | 2515679 | 1,1,2-Trichloroethane | 110 | 76 | 116 |
| | 0505LCS52 | | 2515679 | 1,1-Dichloroethane | 110 | 77 | 117 |
| | 0505LCS52 | | 2515679 | 1,1-Dichloroethene | 111 | 66 | 133 |
| | 0505LCS52 | | 2515679 | 1,1-Dichloropropene | 115 | 75 | 115 |
| | 0505LCS52 | | 2515679 | 1,2,3-Trichlorobenzene | 117 | 66 | 123 |
| | 0505LCS52 | | 2515679 | 1,2,3-Trichloropropane | 106 | 84 | 118 |
| | 0505LCS52 | | 2515679 | 1,2,4-Trichlorobenzene | 116 | 73 | 121 |
| | 0505LCS52 | | 2515679 | 1,2,4-Trimethylbenzene | 116 | 77 | 120 |
| | 0505LCS52 | | 2515679 | 1,2-Dibromo-3-chloropropane | 104 | 65 | 117 |
| | 0505LCS52 | | 2515679 | 1,2-Dibromoethane | 108 | 77 | 117 |
| | 0505LCS52 | | 2515679 | 1,2-Dichlorobenzene | 112 | 76 | 116 |
| | 0505LCS52 | | 2515679 | 1,2-Dichloroethane | 109 | 74 | 120 |
| | 0505LCS52 | | 2515679 | 1,2-Dichloropropane | 112 | 76 | 116 |
| | 0505LCS52 | | 2515679 | 1,3,5-Trimethylbenzene | 115 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0505LCS52 | WATER | 2515679 | 1,3-Dichlorobenzene | 112 | 75 | 115 |
| | 0505LCS52 | | 2515679 | 1,3-Dichloropropane | 108 | 75 | 115 |
| | 0505LCS52 | | 2515679 | 1,4-Dichlorobenzene | 110 | 77 | 117 |
| | 0505LCS52 | | 2515679 | 2,2-Dichloropropane | 110 | 72 | 128 |
| | 0505LCS52 | | 2515679 | 2-Butanone | 112 | 57 | 120 |
| | 0505LCS52 | | 2515679 | 2-Chlorotoluene | 113 | 76 | 116 |
| | 0505LCS52 | | 2515679 | 2-Hexanone | 111 | 57 | 121 |
| | 0505LCS52 | | 2515679 | 4-Chlorotoluene | 114 | 78 | 118 |
| | 0505LCS52 | | 2515679 | 4-Methyl-2-Pentanone | 105 | 65 | 118 |
| | 0505LCS52 | | 2515679 | Acetone | 116 | 48 | 130 |
| | 0505LCS52 | | 2515679 | Benzene | 109 | 77 | 118 |
| | 0505LCS52 | | 2515679 | Bromobenzene | 113 | 75 | 115 |
| | 0505LCS52 | | 2515679 | Bromochloromethane | 110 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Bromodichloromethane | 109 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Bromoform | 106 | 74 | 121 |
| | 0505LCS52 | | 2515679 | Bromomethane | 99.5 | 42 | 154 |
| | 0505LCS52 | | 2515679 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 0505LCS52 | | 2515679 | Carbon tetrachloride | 114 | 80 | 120 |
| | 0505LCS52 | | 2515679 | Chlorobenzene | 110 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Chloroethane | 103 | 51 | 133 |
| | 0505LCS52 | | 2515679 | Chloroform | 106 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Chloromethane | 96.5 | 46 | 142 |
| | 0505LCS52 | | 2515679 | Cis-1,2-DCE | 114 | 75 | 115 |
| | 0505LCS52 | | 2515679 | cis-1,3-Dichloropropene | 109 | 76 | 113 |
| | 0505LCS52 | | 2515679 | Dibromochloromethane | 110 | 76 | 116 |
| | 0505LCS52 | | 2515679 | Dibromomethane | 110 | 77 | 117 |
| | 0505LCS52 | | 2515679 | Dichlorodifluoromethane | 86.5 | 56 | 140 |
| | 0505LCS52 | | 2515679 | Ethylbenzene | 113 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Hexachlorobutadiene | 109 | 73 | 123 |
| | 0505LCS52 | | 2515679 | **Isopropylbenzene** | **117** | **71** | **113** |
| | 0505LCS52 | | 2515679 | m,p-Xylene | 111 | 78 | 118 |
| | 0505LCS52 | | 2515679 | Methyl tert-Butyl Ether | 108 | 58 | 116 |
| | 0505LCS52 | | 2515679 | Methylene chloride | 119 | 71 | 119 |
| | 0505LCS52 | | 2515679 | Naphthalene | 114 | 62 | 121 |
| | 0505LCS52 | | 2515679 | **n-Butylbenzene** | **122** | **76** | **117** |
| | 0505LCS52 | | 2515679 | n-Propylbenzene | 116 | 76 | 116 |
| | 0505LCS52 | | 2515679 | o-Xylene | 114 | 77 | 117 |
| | 0505LCS52 | | 2515679 | **p-Isopropyltoluene** | **117** | **76** | **113** |
| | 0505LCS52 | | 2515679 | Sec-Butylbenzene | 119 | 80 | 120 |
| | 0505LCS52 | | 2515679 | Styrene | 116 | 77 | 117 |
| | 0505LCS52 | | 2515679 | tert-Butylbenzene | 115 | 76 | 116 |
| | 0505LCS52 | | 2515679 | Tetrachloroethene | 113 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0505LCS52 | WATER | 2515679 | Toluene | 112 | 73 | 120 |
| | 0505LCS52 | | 2515679 | trans-1,2-Dichloroethene | 112 | 80 | 120 |
| | 0505LCS52 | | 2515679 | trans-1,3-Dichloropropene | 110 | 72 | 117 |
| | 0505LCS52 | | 2515679 | Trichloroethene | 112 | 78 | 122 |
| | 0505LCS52 | | 2515679 | Trichlorofluoromethane | 106 | 65 | 190 |
| | 0505LCS52 | | 2515679 | Vinyl chloride | 97.5 | 49 | 136 |
| | 0505LCS52 | | 2515679 | Xylenes, Total | 112 | 77 | 117 |
| | 0505LCS52D | | 2515679 | 1,1,1,2-Tetrachloroethane | 111 | 77 | 117 |
| | 0505LCS52D | | 2515679 | 1,1,1-Trichloroethane | 115 | 78 | 118 |
| | 0505LCS52D | | 2515679 | 1,1,2,2-Tetrachloroethane | 108 | 73 | 119 |
| | 0505LCS52D | | 2515679 | 1,1,2-Trichloroethane | 112 | 76 | 116 |
| | 0505LCS52D | | 2515679 | 1,1-Dichloroethene | 118 | 66 | 133 |
| | 0505LCS52D | | 2515679 | **1,1-Dichloropropene** | **120** | **75** | **115** |
| | 0505LCS52D | | 2515679 | 1,2,3-Trichlorobenzene | 118 | 66 | 123 |
| | 0505LCS52D | | 2515679 | 1,2,3-Trichloropropane | 108 | 84 | 118 |
| | 0505LCS52D | | 2515679 | 1,2,4-Trichlorobenzene | 116 | 73 | 121 |
| | 0505LCS52D | | 2515679 | 1,2,4-Trimethylbenzene | 116 | 77 | 120 |
| | 0505LCS52D | | 2515679 | 1,2-Dibromo-3-chloropropane | 108 | 65 | 117 |
| | 0505LCS52D | | 2515679 | 1,2-Dibromoethane | 110 | 77 | 117 |
| | 0505LCS52D | | 2515679 | 1,2-Dichlorobenzene | 111 | 76 | 116 |
| | 0505LCS52D | | 2515679 | 1,2-Dichloroethane | 110 | 74 | 120 |
| | 0505LCS52D | | 2515679 | 1,2-Dichloropropane | 114 | 76 | 116 |
| | 0505LCS52D | | 2515679 | 1,3,5-Trimethylbenzene | 116 | 77 | 117 |
| | 0505LCS52D | | 2515679 | 1,3-Dichlorobenzene | 112 | 75 | 115 |
| | 0505LCS52D | | 2515679 | 1,3-Dichloropropane | 109 | 75 | 115 |
| | 0505LCS52D | | 2515679 | 1,4-Dichlorobenzene | 111 | 77 | 117 |
| | 0505LCS52D | | 2515679 | 2,2-Dichloropropane | 110 | 72 | 128 |
| | 0505LCS52D | | 2515679 | 2-Butanone | 116 | 57 | 120 |
| | 0505LCS52D | | 2515679 | 2-Chlorotoluene | 113 | 76 | 116 |
| | 0505LCS52D | | 2515679 | 2-Hexanone | 117 | 57 | 121 |
| | 0505LCS52D | | 2515679 | 4-Chlorotoluene | 114 | 78 | 118 |
| | 0505LCS52D | | 2515679 | 4-Methyl-2-Pentanone | 110 | 65 | 118 |
| | 0505LCS52D | | 2515679 | Benzene | 111 | 77 | 118 |
| | 0505LCS52D | | 2515679 | Bromobenzene | 112 | 75 | 115 |
| | 0505LCS52D | | 2515679 | Bromochloromethane | 110 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Bromodichloromethane | 110 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Bromoform | 106 | 74 | 121 |
| | 0505LCS52D | | 2515679 | Bromomethane | 107 | 42 | 154 |
| | 0505LCS52D | | 2515679 | **Carbon Disulfide** | **113** | **56** | **104** |
| | 0505LCS52D | | 2515679 | Carbon tetrachloride | 114 | 80 | 120 |
| | 0505LCS52D | | 2515679 | Chlorobenzene | 110 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Chloroethane | 102 | 51 | 133 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0505LCS52D | WATER | 2515679 | Chloroform | 108 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Chloromethane | 95.5 | 46 | 142 |
| | 0505LCS52D | | 2515679 | Cis-1,2-DCE | 114 | 75 | 115 |
| | 0505LCS52D | | 2515679 | cis-1,3-Dichloropropene | 111 | 76 | 113 |
| | 0505LCS52D | | 2515679 | Dibromochloromethane | 109 | 76 | 116 |
| | 0505LCS52D | | 2515679 | Dibromomethane | 110 | 77 | 117 |
| | 0505LCS52D | | 2515679 | Dichlorodifluoromethane | 92.5 | 56 | 140 |
| | 0505LCS52D | | 2515679 | Ethylbenzene | 112 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Hexachlorobutadiene | 112 | 73 | 123 |
| | 0505LCS52D | | 2515679 | **Isopropylbenzene** | **117** | **71** | **113** |
| | 0505LCS52D | | 2515679 | m,p-Xylene | 112 | 78 | 118 |
| | 0505LCS52D | | 2515679 | Methyl tert-Butyl Ether | 112 | 58 | 116 |
| | 0505LCS52D | | 2515679 | **Methylene chloride** | **122** | **71** | **119** |
| | 0505LCS52D | | 2515679 | Naphthalene | 120 | 62 | 121 |
| | 0505LCS52D | | 2515679 | **n-Butylbenzene** | **122** | **76** | **117** |
| | 0505LCS52D | | 2515679 | **n-Propylbenzene** | **117** | **76** | **116** |
| | 0505LCS52D | | 2515679 | o-Xylene | 115 | 77 | 117 |
| | 0505LCS52D | | 2515679 | **p-Isopropyltoluene** | **118** | **76** | **113** |
| | 0505LCS52D | | 2515679 | Sec-Butylbenzene | 120 | 80 | 120 |
| | 0505LCS52D | | 2515679 | Styrene | 115 | 77 | 117 |
| | 0505LCS52D | | 2515679 | tert-Butylbenzene | 116 | 76 | 116 |
| | 0505LCS52D | | 2515679 | Tetrachloroethene | 112 | 77 | 117 |
| | 0505LCS52D | | 2515679 | Toluene | 114 | 73 | 120 |
| | 0505LCS52D | | 2515679 | trans-1,2-Dichloroethene | 113 | 80 | 120 |
| | 0505LCS52D | | 2515679 | trans-1,3-Dichloropropene | 112 | 72 | 117 |
| | 0505LCS52D | | 2515679 | Trichloroethene | 114 | 78 | 122 |
| | 0505LCS52D | | 2515679 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 0505LCS52D | | 2515679 | Vinyl chloride | 97 | 49 | 136 |
| | 0505LCS52D | | 2515679 | Xylenes, Total | 113 | 77 | 117 |
| | 0506LCS52 | | 2515690 | 1,1,1,2-Tetrachloroethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,1,1,2-Tetrachloroethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,1,1-Trichloroethane | 110 | 78 | 118 |
| | 0506LCS52 | | 2515690 | 1,1,1-Trichloroethane | 110 | 78 | 118 |
| | 0506LCS52 | | 2515690 | 1,1,2,2-Tetrachloroethane | 102 | 73 | 119 |
| | 0506LCS52 | | 2515691 | 1,1,2,2-Tetrachloroethane | 102 | 73 | 119 |
| | 0506LCS52 | | 2515690 | 1,1,2-Trichloroethane | 107 | 76 | 116 |
| | 0506LCS52 | | 2515691 | 1,1,2-Trichloroethane | 107 | 76 | 116 |
| | 0506LCS52 | | 2515690 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0506LCS52 | | 2515690 | 1,1-Dichloroethene | 109 | 66 | 133 |
| | 0506LCS52 | | 2515691 | 1,1-Dichloroethene | 109 | 66 | 133 |
| | 0506LCS52 | | 2515690 | 1,1-Dichloropropene | 112 | 75 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52 | WATER | 2515691 | 1,1-Dichloropropene | 112 | 75 | 115 |
| | 0506LCS52 | | 2515690 | 1,2,3-Trichlorobenzene | 112 | 66 | 123 |
| | 0506LCS52 | | 2515691 | 1,2,3-Trichlorobenzene | 112 | 66 | 123 |
| | 0506LCS52 | | 2515690 | 1,2,3-Trichloropropane | 103 | 84 | 118 |
| | 0506LCS52 | | 2515691 | 1,2,3-Trichloropropane | 103 | 84 | 118 |
| | 0506LCS52 | | 2515691 | 1,2,4-Trichlorobenzene | 112 | 73 | 121 |
| | 0506LCS52 | | 2515690 | 1,2,4-Trichlorobenzene | 112 | 73 | 121 |
| | 0506LCS52 | | 2515690 | 1,2,4-Trimethylbenzene | 111 | 77 | 120 |
| | 0506LCS52 | | 2515691 | 1,2,4-Trimethylbenzene | 111 | 77 | 120 |
| | 0506LCS52 | | 2515690 | 1,2-Dibromo-3-chloropropane | 104 | 65 | 117 |
| | 0506LCS52 | | 2515691 | 1,2-Dibromo-3-chloropropane | 104 | 65 | 117 |
| | 0506LCS52 | | 2515690 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515690 | 1,2-Dichlorobenzene | 106 | 76 | 116 |
| | 0506LCS52 | | 2515691 | 1,2-Dichlorobenzene | 106 | 76 | 116 |
| | 0506LCS52 | | 2515691 | 1,2-Dichloroethane | 104 | 74 | 120 |
| | 0506LCS52 | | 2515690 | 1,2-Dichloroethane | 104 | 74 | 120 |
| | 0506LCS52 | | 2515690 | 1,2-Dichloropropane | 108 | 76 | 116 |
| | 0506LCS52 | | 2515691 | 1,2-Dichloropropane | 108 | 76 | 116 |
| | 0506LCS52 | | 2515690 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 1,3-Dichlorobenzene | 107 | 75 | 115 |
| | 0506LCS52 | | 2515690 | 1,3-Dichlorobenzene | 107 | 75 | 115 |
| | 0506LCS52 | | 2515691 | 1,3-Dichloropropane | 104 | 75 | 115 |
| | 0506LCS52 | | 2515690 | 1,3-Dichloropropane | 104 | 75 | 115 |
| | 0506LCS52 | | 2515691 | 1,4-Dichlorobenzene | 106 | 77 | 117 |
| | 0506LCS52 | | 2515690 | 1,4-Dichlorobenzene | 106 | 77 | 117 |
| | 0506LCS52 | | 2515691 | 2,2-Dichloropropane | 104 | 72 | 128 |
| | 0506LCS52 | | 2515690 | 2,2-Dichloropropane | 104 | 72 | 128 |
| | 0506LCS52 | | 2515691 | 2-Butanone | 106 | 57 | 120 |
| | 0506LCS52 | | 2515690 | 2-Butanone | 106 | 57 | 120 |
| | 0506LCS52 | | 2515690 | 2-Chlorotoluene | 110 | 76 | 116 |
| | 0506LCS52 | | 2515691 | 2-Chlorotoluene | 110 | 76 | 116 |
| | 0506LCS52 | | 2515690 | 2-Hexanone | 108 | 57 | 121 |
| | 0506LCS52 | | 2515691 | 2-Hexanone | 108 | 57 | 121 |
| | 0506LCS52 | | 2515690 | 4-Chlorotoluene | 110 | 78 | 118 |
| | 0506LCS52 | | 2515691 | 4-Chlorotoluene | 110 | 78 | 118 |
| | 0506LCS52 | | 2515690 | 4-Methyl-2-Pentanone | 104 | 65 | 118 |
| | 0506LCS52 | | 2515691 | 4-Methyl-2-Pentanone | 104 | 65 | 118 |
| | 0506LCS52 | | 2515690 | Acetone | 108 | 48 | 130 |
| | 0506LCS52 | | 2515691 | Acetone | 108 | 48 | 130 |
| | 0506LCS52 | | 2515690 | Benzene | 106 | 77 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52 | WATER | 2515691 | Benzene | 106 | 77 | 118 |
| | 0506LCS52 | | 2515690 | Bromobenzene | 108 | 75 | 115 |
| | 0506LCS52 | | 2515691 | Bromobenzene | 108 | 75 | 115 |
| | 0506LCS52 | | 2515690 | Bromochloromethane | 106 | 78 | 118 |
| | 0506LCS52 | | 2515691 | Bromochloromethane | 106 | 78 | 118 |
| | 0506LCS52 | | 2515691 | Bromodichloromethane | 108 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Bromodichloromethane | 108 | 78 | 118 |
| | 0506LCS52 | | 2515691 | Bromoform | 102 | 74 | 121 |
| | 0506LCS52 | | 2515690 | Bromoform | 102 | 74 | 121 |
| | 0506LCS52 | | 2515691 | Bromomethane | 114 | 42 | 154 |
| | 0506LCS52 | | 2515690 | Bromomethane | 114 | 42 | 154 |
| | 0506LCS52 | | 2515691 | **Carbon Disulfide** | **109** | **56** | **104** |
| | 0506LCS52 | | 2515690 | **Carbon Disulfide** | **109** | **56** | **104** |
| | 0506LCS52 | | 2515691 | Carbon tetrachloride | 111 | 80 | 120 |
| | 0506LCS52 | | 2515690 | Carbon tetrachloride | 111 | 80 | 120 |
| | 0506LCS52 | | 2515690 | Chlorobenzene | 106 | 78 | 118 |
| | 0506LCS52 | | 2515691 | Chlorobenzene | 106 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Chloroethane | 108 | 51 | 133 |
| | 0506LCS52 | | 2515691 | Chloroethane | 108 | 51 | 133 |
| | 0506LCS52 | | 2515691 | Chloroform | 104 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Chloroform | 104 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Chloromethane | 95.5 | 46 | 142 |
| | 0506LCS52 | | 2515691 | Chloromethane | 95.5 | 46 | 142 |
| | 0506LCS52 | | 2515690 | Cis-1,2-DCE | 110 | 75 | 115 |
| | 0506LCS52 | | 2515691 | Cis-1,2-DCE | 110 | 75 | 115 |
| | 0506LCS52 | | 2515691 | cis-1,3-Dichloropropene | 106 | 76 | 113 |
| | 0506LCS52 | | 2515690 | cis-1,3-Dichloropropene | 106 | 76 | 113 |
| | 0506LCS52 | | 2515691 | Dibromochloromethane | 105 | 76 | 116 |
| | 0506LCS52 | | 2515690 | Dibromochloromethane | 105 | 76 | 116 |
| | 0506LCS52 | | 2515690 | Dibromomethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515691 | Dibromomethane | 106 | 77 | 117 |
| | 0506LCS52 | | 2515690 | Dichlorodifluoromethane | 97.5 | 56 | 140 |
| | 0506LCS52 | | 2515691 | Dichlorodifluoromethane | 97.5 | 56 | 140 |
| | 0506LCS52 | | 2515691 | Ethylbenzene | 108 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Ethylbenzene | 108 | 78 | 118 |
| | 0506LCS52 | | 2515691 | Hexachlorobutadiene | 102 | 73 | 123 |
| | 0506LCS52 | | 2515690 | Hexachlorobutadiene | 102 | 73 | 123 |
| | 0506LCS52 | | 2515690 | Isopropylbenzene | 111 | 71 | 113 |
| | 0506LCS52 | | 2515691 | Isopropylbenzene | 111 | 71 | 113 |
| | 0506LCS52 | | 2515690 | m,p-Xylene | 106 | 78 | 118 |
| | 0506LCS52 | | 2515691 | m,p-Xylene | 106 | 78 | 118 |
| | 0506LCS52 | | 2515690 | Methyl tert-Butyl Ether | 106 | 58 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52 | WATER | 2515691 | Methyl tert-Butyl Ether | 106 | 58 | 116 |
| | 0506LCS52 | | 2515690 | Methylene chloride | 111 | 71 | 119 |
| | 0506LCS52 | | 2515691 | Methylene chloride | 111 | 71 | 119 |
| | 0506LCS52 | | 2515690 | Naphthalene | 111 | 62 | 121 |
| | 0506LCS52 | | 2515691 | Naphthalene | 111 | 62 | 121 |
| | 0506LCS52 | | 2515691 | n-Butylbenzene | 114 | 76 | 117 |
| | 0506LCS52 | | 2515690 | n-Butylbenzene | 114 | 76 | 117 |
| | 0506LCS52 | | 2515690 | n-Propylbenzene | 111 | 76 | 116 |
| | 0506LCS52 | | 2515691 | n-Propylbenzene | 111 | 76 | 116 |
| | 0506LCS52 | | 2515691 | o-Xylene | 109 | 77 | 117 |
| | 0506LCS52 | | 2515690 | o-Xylene | 109 | 77 | 117 |
| | 0506LCS52 | | 2515691 | p-Isopropyltoluene | 112 | 76 | 113 |
| | 0506LCS52 | | 2515690 | p-Isopropyltoluene | 112 | 76 | 113 |
| | 0506LCS52 | | 2515691 | Sec-Butylbenzene | 114 | 80 | 120 |
| | 0506LCS52 | | 2515690 | Sec-Butylbenzene | 114 | 80 | 120 |
| | 0506LCS52 | | 2515690 | Styrene | 110 | 77 | 117 |
| | 0506LCS52 | | 2515691 | Styrene | 110 | 77 | 117 |
| | 0506LCS52 | | 2515691 | tert-Butylbenzene | 111 | 76 | 116 |
| | 0506LCS52 | | 2515690 | tert-Butylbenzene | 111 | 76 | 116 |
| | 0506LCS52 | | 2515691 | Tetrachloroethene | 108 | 77 | 117 |
| | 0506LCS52 | | 2515690 | Tetrachloroethene | 108 | 77 | 117 |
| | 0506LCS52 | | 2515690 | Toluene | 109 | 73 | 120 |
| | 0506LCS52 | | 2515691 | Toluene | 109 | 73 | 120 |
| | 0506LCS52 | | 2515690 | trans-1,2-Dichloroethene | 108 | 80 | 120 |
| | 0506LCS52 | | 2515691 | trans-1,2-Dichloroethene | 108 | 80 | 120 |
| | 0506LCS52 | | 2515690 | trans-1,3-Dichloropropene | 109 | 72 | 117 |
| | 0506LCS52 | | 2515691 | trans-1,3-Dichloropropene | 109 | 72 | 117 |
| | 0506LCS52 | | 2515690 | Trichloroethene | 109 | 78 | 122 |
| | 0506LCS52 | | 2515691 | Trichloroethene | 109 | 78 | 122 |
| | 0506LCS52 | | 2515691 | Trichlorofluoromethane | 111 | 65 | 190 |
| | 0506LCS52 | | 2515690 | Trichlorofluoromethane | 111 | 65 | 190 |
| | 0506LCS52 | | 2515691 | Vinyl chloride | 103 | 49 | 136 |
| | 0506LCS52 | | 2515690 | Vinyl chloride | 103 | 49 | 136 |
| | 0506LCS52 | | 2515691 | Xylenes, Total | 107 | 77 | 117 |
| | 0506LCS52 | | 2515690 | Xylenes, Total | 107 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,1,1,2-Tetrachloroethane | 110 | 77 | 117 |
| | 0506LCS52D | | 2515690 | 1,1,1,2-Tetrachloroethane | 110 | 77 | 117 |
| | 0506LCS52D | | 2515690 | 1,1,1-Trichloroethane | 114 | 78 | 118 |
| | 0506LCS52D | | 2515691 | 1,1,1-Trichloroethane | 114 | 78 | 118 |
| | 0506LCS52D | | 2515690 | 1,1,2,2-Tetrachloroethane | 101 | 73 | 119 |
| | 0506LCS52D | | 2515691 | 1,1,2,2-Tetrachloroethane | 101 | 73 | 119 |
| | 0506LCS52D | | 2515690 | 1,1,2-Trichloroethane | 107 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52D | WATER | 2515691 | 1,1,2-Trichloroethane | 107 | 76 | 116 |
| | 0506LCS52D | | 2515691 | 1,1-Dichloroethane | 112 | 77 | 117 |
| | 0506LCS52D | | 2515690 | 1,1-Dichloroethane | 112 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,1-Dichloroethene | 115 | 66 | 133 |
| | 0506LCS52D | | 2515690 | 1,1-Dichloroethene | 115 | 66 | 133 |
| | 0506LCS52D | | 2515691 | **1,1-Dichloropropene** | **116** | **75** | **115** |
| | 0506LCS52D | | 2515690 | **1,1-Dichloropropene** | **116** | **75** | **115** |
| | 0506LCS52D | | 2515690 | 1,2,3-Trichlorobenzene | 112 | 66 | 123 |
| | 0506LCS52D | | 2515691 | 1,2,3-Trichlorobenzene | 112 | 66 | 123 |
| | 0506LCS52D | | 2515691 | 1,2,3-Trichloropropane | 103 | 84 | 118 |
| | 0506LCS52D | | 2515690 | 1,2,3-Trichloropropane | 103 | 84 | 118 |
| | 0506LCS52D | | 2515690 | 1,2,4-Trichlorobenzene | 112 | 73 | 121 |
| | 0506LCS52D | | 2515691 | 1,2,4-Trichlorobenzene | 112 | 73 | 121 |
| | 0506LCS52D | | 2515690 | 1,2,4-Trimethylbenzene | 114 | 77 | 120 |
| | 0506LCS52D | | 2515691 | 1,2,4-Trimethylbenzene | 114 | 77 | 120 |
| | 0506LCS52D | | 2515690 | 1,2-Dibromo-3-chloropropane | 98.5 | 65 | 117 |
| | 0506LCS52D | | 2515691 | 1,2-Dibromo-3-chloropropane | 98.5 | 65 | 117 |
| | 0506LCS52D | | 2515690 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,2-Dibromoethane | 106 | 77 | 117 |
| | 0506LCS52D | | 2515690 | 1,2-Dichlorobenzene | 108 | 76 | 116 |
| | 0506LCS52D | | 2515691 | 1,2-Dichlorobenzene | 108 | 76 | 116 |
| | 0506LCS52D | | 2515690 | 1,2-Dichloroethane | 106 | 74 | 120 |
| | 0506LCS52D | | 2515691 | 1,2-Dichloroethane | 106 | 74 | 120 |
| | 0506LCS52D | | 2515690 | 1,2-Dichloropropane | 110 | 76 | 116 |
| | 0506LCS52D | | 2515691 | 1,2-Dichloropropane | 110 | 76 | 116 |
| | 0506LCS52D | | 2515690 | 1,3,5-Trimethylbenzene | 114 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,3,5-Trimethylbenzene | 114 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,3-Dichlorobenzene | 110 | 75 | 115 |
| | 0506LCS52D | | 2515690 | 1,3-Dichlorobenzene | 110 | 75 | 115 |
| | 0506LCS52D | | 2515691 | 1,3-Dichloropropane | 104 | 75 | 115 |
| | 0506LCS52D | | 2515690 | 1,3-Dichloropropane | 104 | 75 | 115 |
| | 0506LCS52D | | 2515690 | 1,4-Dichlorobenzene | 108 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 1,4-Dichlorobenzene | 108 | 77 | 117 |
| | 0506LCS52D | | 2515691 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0506LCS52D | | 2515690 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0506LCS52D | | 2515690 | 2-Butanone | 105 | 57 | 120 |
| | 0506LCS52D | | 2515691 | 2-Butanone | 105 | 57 | 120 |
| | 0506LCS52D | | 2515691 | 2-Chlorotoluene | 111 | 76 | 116 |
| | 0506LCS52D | | 2515690 | 2-Chlorotoluene | 111 | 76 | 116 |
| | 0506LCS52D | | 2515690 | 2-Hexanone | 107 | 57 | 121 |
| | 0506LCS52D | | 2515691 | 2-Hexanone | 107 | 57 | 121 |
| | 0506LCS52D | | 2515690 | 4-Chlorotoluene | 112 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52D | WATER | 2515691 | 4-Chlorotoluene | 112 | 78 | 118 |
| | 0506LCS52D | | 2515691 | 4-Methyl-2-Pentanone | 103 | 65 | 118 |
| | 0506LCS52D | | 2515690 | 4-Methyl-2-Pentanone | 103 | 65 | 118 |
| | 0506LCS52D | | 2515690 | Acetone | 106 | 48 | 130 |
| | 0506LCS52D | | 2515691 | Acetone | 106 | 48 | 130 |
| | 0506LCS52D | | 2515690 | Benzene | 109 | 77 | 118 |
| | 0506LCS52D | | 2515691 | Benzene | 109 | 77 | 118 |
| | 0506LCS52D | | 2515691 | Bromobenzene | 110 | 75 | 115 |
| | 0506LCS52D | | 2515690 | Bromobenzene | 110 | 75 | 115 |
| | 0506LCS52D | | 2515691 | Bromochloromethane | 107 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Bromochloromethane | 107 | 78 | 118 |
| | 0506LCS52D | | 2515691 | Bromodichloromethane | 109 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Bromodichloromethane | 109 | 78 | 118 |
| | 0506LCS52D | | 2515691 | Bromoform | 101 | 74 | 121 |
| | 0506LCS52D | | 2515690 | Bromoform | 101 | 74 | 121 |
| | 0506LCS52D | | 2515691 | Bromomethane | 120 | 42 | 154 |
| | 0506LCS52D | | 2515690 | Bromomethane | 120 | 42 | 154 |
| | 0506LCS52D | | 2515691 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 0506LCS52D | | 2515690 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 0506LCS52D | | 2515690 | Carbon tetrachloride | 115 | 80 | 120 |
| | 0506LCS52D | | 2515691 | Carbon tetrachloride | 115 | 80 | 120 |
| | 0506LCS52D | | 2515690 | Chlorobenzene | 109 | 78 | 118 |
| | 0506LCS52D | | 2515691 | Chlorobenzene | 109 | 78 | 118 |
| | 0506LCS52D | | 2515691 | Chloroethane | 112 | 51 | 133 |
| | 0506LCS52D | | 2515690 | Chloroethane | 112 | 51 | 133 |
| | 0506LCS52D | | 2515690 | Chloroform | 106 | 78 | 118 |
| | 0506LCS52D | | 2515691 | Chloroform | 106 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Chloromethane | 99.5 | 46 | 142 |
| | 0506LCS52D | | 2515691 | Chloromethane | 99.5 | 46 | 142 |
| | 0506LCS52D | | 2515690 | Cis-1,2-DCE | 112 | 75 | 115 |
| | 0506LCS52D | | 2515691 | Cis-1,2-DCE | 112 | 75 | 115 |
| | 0506LCS52D | | 2515690 | cis-1,3-Dichloropropene | 108 | 76 | 113 |
| | 0506LCS52D | | 2515691 | cis-1,3-Dichloropropene | 108 | 76 | 113 |
| | 0506LCS52D | | 2515691 | Dibromochloromethane | 106 | 76 | 116 |
| | 0506LCS52D | | 2515690 | Dibromochloromethane | 106 | 76 | 116 |
| | 0506LCS52D | | 2515690 | Dibromomethane | 109 | 77 | 117 |
| | 0506LCS52D | | 2515691 | Dibromomethane | 109 | 77 | 117 |
| | 0506LCS52D | | 2515691 | Dichlorodifluoromethane | 100 | 56 | 140 |
| | 0506LCS52D | | 2515690 | Dichlorodifluoromethane | 100 | 56 | 140 |
| | 0506LCS52D | | 2515691 | Ethylbenzene | 112 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Ethylbenzene | 112 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Hexachlorobutadiene | 108 | 73 | 123 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0506LCS52D | WATER | 2515691 | Hexachlorobutadiene | 108 | 73 | 123 |
| | 0506LCS52D | | 2515691 | **Isopropylbenzene** | **116** | **71** | **113** |
| | 0506LCS52D | | 2515690 | **Isopropylbenzene** | **116** | **71** | **113** |
| | 0506LCS52D | | 2515691 | m,p-Xylene | 110 | 78 | 118 |
| | 0506LCS52D | | 2515690 | m,p-Xylene | 110 | 78 | 118 |
| | 0506LCS52D | | 2515690 | Methyl tert-Butyl Ether | 106 | 58 | 116 |
| | 0506LCS52D | | 2515691 | Methyl tert-Butyl Ether | 106 | 58 | 116 |
| | 0506LCS52D | | 2515690 | Methylene chloride | 113 | 71 | 119 |
| | 0506LCS52D | | 2515691 | Methylene chloride | 113 | 71 | 119 |
| | 0506LCS52D | | 2515690 | Naphthalene | 108 | 62 | 121 |
| | 0506LCS52D | | 2515691 | Naphthalene | 108 | 62 | 121 |
| | 0506LCS52D | | 2515691 | **n-Butylbenzene** | **119** | **76** | **117** |
| | 0506LCS52D | | 2515690 | **n-Butylbenzene** | **119** | **76** | **117** |
| | 0506LCS52D | | 2515691 | n-Propylbenzene | 115 | 76 | 116 |
| | 0506LCS52D | | 2515690 | n-Propylbenzene | 115 | 76 | 116 |
| | 0506LCS52D | | 2515690 | o-Xylene | 112 | 77 | 117 |
| | 0506LCS52D | | 2515691 | o-Xylene | 112 | 77 | 117 |
| | 0506LCS52D | | 2515690 | **p-Isopropyltoluene** | **116** | **76** | **113** |
| | 0506LCS52D | | 2515691 | **p-Isopropyltoluene** | **116** | **76** | **113** |
| | 0506LCS52D | | 2515690 | Sec-Butylbenzene | 117 | 80 | 120 |
| | 0506LCS52D | | 2515691 | Sec-Butylbenzene | 117 | 80 | 120 |
| | 0506LCS52D | | 2515690 | Styrene | 113 | 77 | 117 |
| | 0506LCS52D | | 2515691 | Styrene | 113 | 77 | 117 |
| | 0506LCS52D | | 2515691 | tert-Butylbenzene | 115 | 76 | 116 |
| | 0506LCS52D | | 2515690 | tert-Butylbenzene | 115 | 76 | 116 |
| | 0506LCS52D | | 2515691 | Tetrachloroethene | 113 | 77 | 117 |
| | 0506LCS52D | | 2515690 | Tetrachloroethene | 113 | 77 | 117 |
| | 0506LCS52D | | 2515691 | Toluene | 113 | 73 | 120 |
| | 0506LCS52D | | 2515690 | Toluene | 113 | 73 | 120 |
| | 0506LCS52D | | 2515691 | trans-1,2-Dichloroethene | 113 | 80 | 120 |
| | 0506LCS52D | | 2515690 | trans-1,2-Dichloroethene | 113 | 80 | 120 |
| | 0506LCS52D | | 2515691 | trans-1,3-Dichloropropene | 110 | 72 | 117 |
| | 0506LCS52D | | 2515690 | trans-1,3-Dichloropropene | 110 | 72 | 117 |
| | 0506LCS52D | | 2515691 | Trichloroethene | 113 | 78 | 122 |
| | 0506LCS52D | | 2515690 | Trichloroethene | 113 | 78 | 122 |
| | 0506LCS52D | | 2515690 | Trichlorofluoromethane | 115 | 65 | 190 |
| | 0506LCS52D | | 2515691 | Trichlorofluoromethane | 115 | 65 | 190 |
| | 0506LCS52D | | 2515691 | Vinyl chloride | 110 | 49 | 136 |
| | 0506LCS52D | | 2515690 | Vinyl chloride | 110 | 49 | 136 |
| | 0506LCS52D | | 2515691 | Xylenes, Total | 111 | 77 | 117 |
| | 0506LCS52D | | 2515690 | Xylenes, Total | 111 | 77 | 117 |
| | 0507LCS52 | | 2515690 | 1,1,1,2-Tetrachloroethane | 104 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0507LCS52 | WATER | 2515690 | 1,1,1-Trichloroethane | 108 | 78 | 118 |
| | 0507LCS52 | | 2515690 | 1,1,2,2-Tetrachloroethane | 90 | 73 | 119 |
| | 0507LCS52 | | 2515690 | 1,1,2-Trichloroethane | 101 | 76 | 116 |
| | 0507LCS52 | | 2515690 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0507LCS52 | | 2515690 | 1,1-Dichloroethene | 111 | 66 | 133 |
| | 0507LCS52 | | 2515690 | 1,1-Dichloropropene | 112 | 75 | 115 |
| | 0507LCS52 | | 2515690 | 1,2,3-Trichlorobenzene | 102 | 66 | 123 |
| | 0507LCS52 | | 2515690 | 1,2,3-Trichloropropane | 91 | 84 | 118 |
| | 0507LCS52 | | 2515690 | 1,2,4-Trichlorobenzene | 108 | 73 | 121 |
| | 0507LCS52 | | 2515690 | 1,2,4-Trimethylbenzene | 109 | 77 | 120 |
| | 0507LCS52 | | 2515690 | 1,2-Dibromo-3-chloropropane | 86.5 | 65 | 117 |
| | 0507LCS52 | | 2515690 | 1,2-Dibromoethane | 98 | 77 | 117 |
| | 0507LCS52 | | 2515690 | 1,2-Dichlorobenzene | 104 | 76 | 116 |
| | 0507LCS52 | | 2515690 | 1,2-Dichloroethane | 102 | 74 | 120 |
| | 0507LCS52 | | 2515690 | 1,2-Dichloropropane | 106 | 76 | 116 |
| | 0507LCS52 | | 2515690 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 0507LCS52 | | 2515690 | 1,3-Dichlorobenzene | 106 | 75 | 115 |
| | 0507LCS52 | | 2515690 | 1,3-Dichloropropane | 98 | 75 | 115 |
| | 0507LCS52 | | 2515690 | 1,4-Dichlorobenzene | 104 | 77 | 117 |
| | 0507LCS52 | | 2515690 | 2,2-Dichloropropane | 106 | 72 | 128 |
| | 0507LCS52 | | 2515690 | 2-Butanone | 89 | 57 | 120 |
| | 0507LCS52 | | 2515690 | 2-Chlorotoluene | 105 | 76 | 116 |
| | 0507LCS52 | | 2515690 | 2-Hexanone | 87 | 57 | 121 |
| | 0507LCS52 | | 2515690 | 4-Chlorotoluene | 108 | 78 | 118 |
| | 0507LCS52 | | 2515690 | 4-Methyl-2-Pentanone | 87.2 | 65 | 118 |
| | 0507LCS52 | | 2515690 | Acetone | 100 | 48 | 130 |
| | 0507LCS52 | | 2515690 | Benzene | 104 | 77 | 118 |
| | 0507LCS52 | | 2515690 | Bromobenzene | 104 | 75 | 115 |
| | 0507LCS52 | | 2515690 | Bromochloromethane | 102 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Bromodichloromethane | 104 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Bromoform | 90.5 | 74 | 121 |
| | 0507LCS52 | | 2515690 | Bromomethane | 124 | 42 | 154 |
| | 0507LCS52 | | 2515690 | **Carbon Disulfide** | **109** | **56** | **104** |
| | 0507LCS52 | | 2515690 | Carbon tetrachloride | 110 | 80 | 120 |
| | 0507LCS52 | | 2515690 | Chlorobenzene | 104 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Chloroethane | 106 | 51 | 133 |
| | 0507LCS52 | | 2515690 | Chloroform | 102 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Chloromethane | 94 | 46 | 142 |
| | 0507LCS52 | | 2515690 | Cis-1,2-DCE | 109 | 75 | 115 |
| | 0507LCS52 | | 2515690 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 0507LCS52 | | 2515690 | Dibromochloromethane | 101 | 76 | 116 |
| | 0507LCS52 | | 2515690 | Dibromomethane | 102 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0507LCS52 | WATER | 2515690 | Dichlorodifluoromethane | 97.5 | 56 | 140 |
| | 0507LCS52 | | 2515690 | Ethylbenzene | 108 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Hexachlorobutadiene | 102 | 73 | 123 |
| | 0507LCS52 | | 2515690 | Isopropylbenzene | 110 | 71 | 113 |
| | 0507LCS52 | | 2515690 | m,p-Xylene | 105 | 78 | 118 |
| | 0507LCS52 | | 2515690 | Methyl tert-Butyl Ether | 97 | 58 | 116 |
| | 0507LCS52 | | 2515690 | Methylene chloride | 117 | 71 | 119 |
| | 0507LCS52 | | 2515690 | Naphthalene | 96 | 62 | 121 |
| | 0507LCS52 | | 2515690 | n-Butylbenzene | 114 | 76 | 117 |
| | 0507LCS52 | | 2515690 | n-Propylbenzene | 109 | 76 | 116 |
| | 0507LCS52 | | 2515690 | o-Xylene | 106 | 77 | 117 |
| | 0507LCS52 | | 2515690 | p-Isopropyltoluene | 110 | 76 | 113 |
| | 0507LCS52 | | 2515690 | Sec-Butylbenzene | 112 | 80 | 120 |
| | 0507LCS52 | | 2515690 | Styrene | 107 | 77 | 117 |
| | 0507LCS52 | | 2515690 | tert-Butylbenzene | 108 | 76 | 116 |
| | 0507LCS52 | | 2515690 | Tetrachloroethene | 108 | 77 | 117 |
| | 0507LCS52 | | 2515690 | Toluene | 109 | 73 | 120 |
| | 0507LCS52 | | 2515690 | trans-1,2-Dichloroethene | 106 | 80 | 120 |
| | 0507LCS52 | | 2515690 | trans-1,3-Dichloropropene | 102 | 72 | 117 |
| | 0507LCS52 | | 2515690 | Trichloroethene | 108 | 78 | 122 |
| | 0507LCS52 | | 2515690 | Trichlorofluoromethane | 110 | 65 | 190 |
| | 0507LCS52 | | 2515690 | Vinyl chloride | 99.5 | 49 | 136 |
| | 0507LCS52 | | 2515690 | Xylenes, Total | 105 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 1,1,1,2-Tetrachloroethane | 106 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 1,1,1-Trichloroethane | 112 | 78 | 118 |
| | 0507LCS52D | | 2515690 | 1,1,2,2-Tetrachloroethane | 99 | 73 | 119 |
| | 0507LCS52D | | 2515690 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 0507LCS52D | | 2515690 | 1,1-Dichloroethane | 107 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 1,1-Dichloroethene | 110 | 66 | 133 |
| | 0507LCS52D | | 2515690 | 1,1-Dichloropropene | 112 | 75 | 115 |
| | 0507LCS52D | | 2515690 | 1,2,3-Trichlorobenzene | 108 | 66 | 123 |
| | 0507LCS52D | | 2515690 | 1,2,3-Trichloropropane | 101 | 84 | 118 |
| | 0507LCS52D | | 2515690 | 1,2,4-Trichlorobenzene | 108 | 73 | 121 |
| | 0507LCS52D | | 2515690 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 0507LCS52D | | 2515690 | 1,2-Dibromo-3-chloropropane | 105 | 65 | 117 |
| | 0507LCS52D | | 2515690 | 1,2-Dibromoethane | 103 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 1,2-Dichlorobenzene | 104 | 76 | 116 |
| | 0507LCS52D | | 2515690 | 1,2-Dichloroethane | 103 | 74 | 120 |
| | 0507LCS52D | | 2515690 | 1,2-Dichloropropane | 104 | 76 | 116 |
| | 0507LCS52D | | 2515690 | 1,3,5-Trimethylbenzene | 108 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 1,3-Dichlorobenzene | 105 | 75 | 115 |
| | 0507LCS52D | | 2515690 | 1,3-Dichloropropane | 102 | 75 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0507LCS52D | WATER | 2515690 | 1,4-Dichlorobenzene | 104 | 77 | 117 |
| | 0507LCS52D | | 2515690 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0507LCS52D | | 2515690 | 2-Butanone | 110 | 57 | 120 |
| | 0507LCS52D | | 2515690 | 2-Chlorotoluene | 106 | 76 | 116 |
| | 0507LCS52D | | 2515690 | 2-Hexanone | 107 | 57 | 121 |
| | 0507LCS52D | | 2515690 | 4-Chlorotoluene | 106 | 78 | 118 |
| | 0507LCS52D | | 2515690 | 4-Methyl-2-Pentanone | 103 | 65 | 118 |
| | 0507LCS52D | | 2515690 | Acetone | 115 | 48 | 130 |
| | 0507LCS52D | | 2515690 | Benzene | 104 | 77 | 118 |
| | 0507LCS52D | | 2515690 | Bromobenzene | 104 | 75 | 115 |
| | 0507LCS52D | | 2515690 | Bromochloromethane | 101 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Bromodichloromethane | 104 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Bromoform | 102 | 74 | 121 |
| | 0507LCS52D | | 2515690 | Bromomethane | 113 | 42 | 154 |
| | 0507LCS52D | | 2515690 | **Carbon Disulfide** | **108** | **56** | **104** |
| | 0507LCS52D | | 2515690 | Carbon tetrachloride | 112 | 80 | 120 |
| | 0507LCS52D | | 2515690 | Chlorobenzene | 105 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Chloroethane | 104 | 51 | 133 |
| | 0507LCS52D | | 2515690 | Chloroform | 102 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Chloromethane | 92.5 | 46 | 142 |
| | 0507LCS52D | | 2515690 | Cis-1,2-DCE | 106 | 75 | 115 |
| | 0507LCS52D | | 2515690 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 0507LCS52D | | 2515690 | Dibromochloromethane | 104 | 76 | 116 |
| | 0507LCS52D | | 2515690 | Dibromomethane | 104 | 77 | 117 |
| | 0507LCS52D | | 2515690 | Dichlorodifluoromethane | 95.5 | 56 | 140 |
| | 0507LCS52D | | 2515690 | Ethylbenzene | 108 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Hexachlorobutadiene | 100 | 73 | 123 |
| | 0507LCS52D | | 2515690 | Isopropylbenzene | 110 | 71 | 113 |
| | 0507LCS52D | | 2515690 | m,p-Xylene | 107 | 78 | 118 |
| | 0507LCS52D | | 2515690 | Methyl tert-Butyl Ether | 104 | 58 | 116 |
| | 0507LCS52D | | 2515690 | Methylene chloride | 115 | 71 | 119 |
| | 0507LCS52D | | 2515690 | Naphthalene | 110 | 62 | 121 |
| | 0507LCS52D | | 2515690 | n-Butylbenzene | 114 | 76 | 117 |
| | 0507LCS52D | | 2515690 | n-Propylbenzene | 110 | 76 | 116 |
| | 0507LCS52D | | 2515690 | o-Xylene | 108 | 77 | 117 |
| | 0507LCS52D | | 2515690 | p-Isopropyltoluene | 112 | 76 | 113 |
| | 0507LCS52D | | 2515690 | Sec-Butylbenzene | 112 | 80 | 120 |
| | 0507LCS52D | | 2515690 | Styrene | 108 | 77 | 117 |
| | 0507LCS52D | | 2515690 | tert-Butylbenzene | 110 | 76 | 116 |
| | 0507LCS52D | | 2515690 | Tetrachloroethene | 110 | 77 | 117 |
| | 0507LCS52D | | 2515690 | Toluene | 108 | 73 | 120 |
| | 0507LCS52D | | 2515690 | trans-1,2-Dichloroethene | 107 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0507LCS52D | WATER | 2515690 | trans-1,3-Dichloropropene | 106 | 72 | 117 |
| | 0507LCS52D | | 2515690 | Trichloroethene | 110 | 78 | 122 |
| | 0507LCS52D | | 2515690 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 0507LCS52D | | 2515690 | Vinyl chloride | 103 | 49 | 136 |
| | 0507LCS52D | | 2515690 | Xylenes, Total | 107 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 1,1,1,2-Tetrachloroethane | 99.5 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 1,1,1-Trichloroethane | 100 | 78 | 118 |
| | 0508LCS51D | | 2515690 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 0508LCS51D | | 2515690 | 1,1,2-Trichloroethane | 101 | 76 | 116 |
| | 0508LCS51D | | 2515690 | 1,1-Dichloroethane | 97.5 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 1,1-Dichloroethene | 97.5 | 66 | 133 |
| | 0508LCS51D | | 2515690 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 0508LCS51D | | 2515690 | 1,2,3-Trichlorobenzene | 101 | 66 | 123 |
| | 0508LCS51D | | 2515690 | 1,2,3-Trichloropropane | 93 | 84 | 118 |
| | 0508LCS51D | | 2515690 | 1,2,4-Trichlorobenzene | 101 | 73 | 121 |
| | 0508LCS51D | | 2515690 | 1,2,4-Trimethylbenzene | 101 | 77 | 120 |
| | 0508LCS51D | | 2515690 | 1,2-Dibromo-3-chloropropane | 90 | 65 | 117 |
| | 0508LCS51D | | 2515690 | 1,2-Dibromoethane | 97 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 1,2-Dichlorobenzene | 98.5 | 76 | 116 |
| | 0508LCS51D | | 2515690 | 1,2-Dichloroethane | 97 | 74 | 120 |
| | 0508LCS51D | | 2515690 | 1,2-Dichloropropane | 99.5 | 76 | 116 |
| | 0508LCS51D | | 2515690 | 1,3,5-Trimethylbenzene | 101 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 1,3-Dichlorobenzene | 98.5 | 75 | 115 |
| | 0508LCS51D | | 2515690 | 1,3-Dichloropropane | 96.5 | 75 | 115 |
| | 0508LCS51D | | 2515690 | 1,4-Dichlorobenzene | 98 | 77 | 117 |
| | 0508LCS51D | | 2515690 | 2,2-Dichloropropane | 97 | 72 | 128 |
| | 0508LCS51D | | 2515690 | 2-Butanone | 100 | 57 | 120 |
| | 0508LCS51D | | 2515690 | 2-Chlorotoluene | 98 | 76 | 116 |
| | 0508LCS51D | | 2515690 | 2-Hexanone | 99.5 | 57 | 121 |
| | 0508LCS51D | | 2515690 | 4-Chlorotoluene | 98 | 78 | 118 |
| | 0508LCS51D | | 2515690 | 4-Methyl-2-Pentanone | 95 | 65 | 118 |
| | 0508LCS51D | | 2515690 | Acetone | 101 | 48 | 130 |
| | 0508LCS51D | | 2515690 | Benzene | 95.5 | 77 | 118 |
| | 0508LCS51D | | 2515690 | Bromobenzene | 99.5 | 75 | 115 |
| | 0508LCS51D | | 2515690 | Bromochloromethane | 96 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Bromodichloromethane | 99 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Bromoform | 95.5 | 74 | 121 |
| | 0508LCS51D | | 2515690 | Bromomethane | 104 | 42 | 154 |
| | 0508LCS51D | | 2515690 | Carbon Disulfide | 97 | 56 | 104 |
| | 0508LCS51D | | 2515690 | Carbon tetrachloride | 100 | 80 | 120 |
| | 0508LCS51D | | 2515690 | Chlorobenzene | 98 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Chloroethane | 101 | 51 | 133 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0508LCS51D | WATER | 2515690 | Chloroform | 94.5 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Chloromethane | 94 | 46 | 142 |
| | 0508LCS51D | | 2515690 | Cis-1,2-DCE | 100 | 75 | 115 |
| | 0508LCS51D | | 2515690 | cis-1,3-Dichloropropene | 100 | 76 | 113 |
| | 0508LCS51D | | 2515690 | Dibromochloromethane | 98 | 76 | 116 |
| | 0508LCS51D | | 2515690 | Dibromomethane | 97 | 77 | 117 |
| | 0508LCS51D | | 2515690 | Dichlorodifluoromethane | 117 | 56 | 140 |
| | 0508LCS51D | | 2515690 | Ethylbenzene | 100 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Hexachlorobutadiene | 93.5 | 73 | 123 |
| | 0508LCS51D | | 2515690 | Isopropylbenzene | 102 | 71 | 113 |
| | 0508LCS51D | | 2515690 | m,p-Xylene | 96.8 | 78 | 118 |
| | 0508LCS51D | | 2515690 | Methyl tert-Butyl Ether | 96 | 58 | 116 |
| | 0508LCS51D | | 2515690 | Methylene chloride | 106 | 71 | 119 |
| | 0508LCS51D | | 2515690 | Naphthalene | 99 | 62 | 121 |
| | 0508LCS51D | | 2515690 | n-Butylbenzene | 103 | 76 | 117 |
| | 0508LCS51D | | 2515690 | n-Propylbenzene | 101 | 76 | 116 |
| | 0508LCS51D | | 2515690 | o-Xylene | 100 | 77 | 117 |
| | 0508LCS51D | | 2515690 | p-Isopropyltoluene | 102 | 76 | 113 |
| | 0508LCS51D | | 2515690 | Sec-Butylbenzene | 102 | 80 | 120 |
| | 0508LCS51D | | 2515690 | Styrene | 100 | 77 | 117 |
| | 0508LCS51D | | 2515690 | tert-Butylbenzene | 100 | 76 | 116 |
| | 0508LCS51D | | 2515690 | Tetrachloroethene | 100 | 77 | 117 |
| | 0508LCS51D | | 2515690 | Toluene | 101 | 73 | 120 |
| | 0508LCS51D | | 2515690 | trans-1,2-Dichloroethene | 96.5 | 80 | 120 |
| | 0508LCS51D | | 2515690 | trans-1,3-Dichloropropene | 102 | 72 | 117 |
| | 0508LCS51D | | 2515690 | Trichloroethene | 99.5 | 78 | 122 |
| | 0508LCS51D | | 2515690 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 0508LCS51D | | 2515690 | Vinyl chloride | 104 | 49 | 136 |
| | 0508LCS51D | | 2515690 | Xylenes, Total | 97.8 | 77 | 117 |
| | 0508LCS51R | | 2515690 | 1,1,1,2-Tetrachloroethane | 106 | 77 | 117 |
| | 0508LCS51R | | 2515690 | 1,1,1-Trichloroethane | 110 | 78 | 118 |
| | 0508LCS51R | | 2515690 | 1,1,2,2-Tetrachloroethane | 97 | 73 | 119 |
| | 0508LCS51R | | 2515690 | 1,1,2-Trichloroethane | 106 | 76 | 116 |
| | 0508LCS51R | | 2515690 | 1,1-Dichloroethane | 108 | 77 | 117 |
| | 0508LCS51R | | 2515690 | 1,1-Dichloroethene | 108 | 66 | 133 |
| | 0508LCS51R | | 2515690 | 1,1-Dichloropropene | 114 | 75 | 115 |
| | 0508LCS51R | | 2515690 | 1,2,3-Trichlorobenzene | 110 | 66 | 123 |
| | 0508LCS51R | | 2515690 | 1,2,3-Trichloropropane | 99 | 84 | 118 |
| | 0508LCS51R | | 2515690 | 1,2,4-Trichlorobenzene | 108 | 73 | 121 |
| | 0508LCS51R | | 2515690 | 1,2,4-Trimethylbenzene | 110 | 77 | 120 |
| | 0508LCS51R | | 2515690 | 1,2-Dibromo-3-chloropropane | 91.5 | 65 | 117 |
| | 0508LCS51R | | 2515690 | 1,2-Dibromoethane | 104 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0508LCS51R | WATER | 2515690 | 1,2-Dichlorobenzene | 107 | 76 | 116 |
| | 0508LCS51R | | 2515690 | 1,2-Dichloroethane | 104 | 74 | 120 |
| | 0508LCS51R | | 2515690 | 1,2-Dichloropropane | 108 | 76 | 116 |
| | 0508LCS51R | | 2515690 | 1,3,5-Trimethylbenzene | 111 | 77 | 117 |
| | 0508LCS51R | | 2515690 | 1,3-Dichlorobenzene | 108 | 75 | 115 |
| | 0508LCS51R | | 2515690 | 1,3-Dichloropropane | 102 | 75 | 115 |
| | 0508LCS51R | | 2515690 | 1,4-Dichlorobenzene | 106 | 77 | 117 |
| | 0508LCS51R | | 2515690 | 2,2-Dichloropropane | 109 | 72 | 128 |
| | 0508LCS51R | | 2515690 | 2-Butanone | 107 | 57 | 120 |
| | 0508LCS51R | | 2515690 | 2-Chlorotoluene | 106 | 76 | 116 |
| | 0508LCS51R | | 2515690 | 2-Hexanone | 104 | 57 | 121 |
| | 0508LCS51R | | 2515690 | 4-Chlorotoluene | 107 | 78 | 118 |
| | 0508LCS51R | | 2515690 | 4-Methyl-2-Pentanone | 100 | 65 | 118 |
| | 0508LCS51R | | 2515690 | Acetone | 112 | 48 | 130 |
| | 0508LCS51R | | 2515690 | Benzene | 106 | 77 | 118 |
| | 0508LCS51R | | 2515690 | Bromobenzene | 106 | 75 | 115 |
| | 0508LCS51R | | 2515690 | Bromochloromethane | 102 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Bromodichloromethane | 108 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Bromoform | 100 | 74 | 121 |
| | 0508LCS51R | | 2515690 | Bromomethane | 100 | 42 | 154 |
| | 0508LCS51R | | 2515690 | Carbon Disulfide | 104 | 56 | 104 |
| | 0508LCS51R | | 2515690 | Carbon tetrachloride | 112 | 80 | 120 |
| | 0508LCS51R | | 2515690 | Chlorobenzene | 106 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Chloroethane | 102 | 51 | 133 |
| | 0508LCS51R | | 2515690 | Chloroform | 103 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Chloromethane | 86 | 46 | 142 |
| | 0508LCS51R | | 2515690 | Cis-1,2-DCE | 109 | 75 | 115 |
| | 0508LCS51R | | 2515690 | cis-1,3-Dichloropropene | 108 | 76 | 113 |
| | 0508LCS51R | | 2515690 | Dibromochloromethane | 105 | 76 | 116 |
| | 0508LCS51R | | 2515690 | Dibromomethane | 105 | 77 | 117 |
| | 0508LCS51R | | 2515690 | Dichlorodifluoromethane | 90.5 | 56 | 140 |
| | 0508LCS51R | | 2515690 | Ethylbenzene | 109 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Hexachlorobutadiene | 105 | 73 | 123 |
| | 0508LCS51R | | 2515690 | Isopropylbenzene | 110 | 71 | 113 |
| | 0508LCS51R | | 2515690 | m,p-Xylene | 106 | 78 | 118 |
| | 0508LCS51R | | 2515690 | Methyl tert-Butyl Ether | 103 | 58 | 116 |
| | 0508LCS51R | | 2515690 | Methylene chloride | 114 | 71 | 119 |
| | 0508LCS51R | | 2515690 | Naphthalene | 106 | 62 | 121 |
| | 0508LCS51R | | 2515690 | n-Butylbenzene | 115 | 76 | 117 |
| | 0508LCS51R | | 2515690 | n-Propylbenzene | 111 | 76 | 116 |
| | 0508LCS51R | | 2515690 | o-Xylene | 106 | 77 | 117 |
| | 0508LCS51R | | 2515690 | p-Isopropyltoluene | 113 | 76 | 113 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0508LCS51R | WATER | 2515690 | Sec-Butylbenzene | 113 | 80 | 120 |
| | 0508LCS51R | | 2515690 | Styrene | 107 | 77 | 117 |
| | 0508LCS51R | | 2515690 | tert-Butylbenzene | 112 | 76 | 116 |
| | 0508LCS51R | | 2515690 | Tetrachloroethene | 110 | 77 | 117 |
| | 0508LCS51R | | 2515690 | Toluene | 111 | 73 | 120 |
| | 0508LCS51R | | 2515690 | trans-1,2-Dichloroethene | 108 | 80 | 120 |
| | 0508LCS51R | | 2515690 | trans-1,3-Dichloropropene | 108 | 72 | 117 |
| | 0508LCS51R | | 2515690 | Trichloroethene | 112 | 78 | 122 |
| | 0508LCS51R | | 2515690 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 0508LCS51R | | 2515690 | Vinyl chloride | 99 | 49 | 136 |
| | 0508LCS51R | | 2515690 | Xylenes, Total | 106 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 1,1,1,2-Tetrachloroethane | 99 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 1,1,1-Trichloroethane | 104 | 78 | 118 |
| | 050910LCS31 | | 2515707 | 1,1,2,2-Tetrachloroethane | 98 | 73 | 119 |
| | 050910LCS31 | | 2515707 | 1,1,2-Trichloroethane | 102 | 76 | 116 |
| | 050910LCS31 | | 2515707 | 1,1-Dichloroethane | 99.5 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 1,1-Dichloroethene | 100 | 66 | 133 |
| | 050910LCS31 | | 2515707 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 050910LCS31 | | 2515707 | 1,2,3-Trichlorobenzene | 96 | 66 | 123 |
| | 050910LCS31 | | 2515707 | 1,2,3-Trichloropropane | 95 | 84 | 118 |
| | 050910LCS31 | | 2515707 | 1,2,4-Trichlorobenzene | 98 | 73 | 121 |
| | 050910LCS31 | | 2515707 | 1,2,4-Trimethylbenzene | 106 | 77 | 120 |
| | 050910LCS31 | | 2515707 | 1,2-Dibromo-3-chloropropane | 91.5 | 65 | 117 |
| | 050910LCS31 | | 2515707 | 1,2-Dibromoethane | 100 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 1,2-Dichlorobenzene | 98 | 76 | 116 |
| | 050910LCS31 | | 2515707 | 1,2-Dichloroethane | 100 | 74 | 120 |
| | 050910LCS31 | | 2515707 | 1,2-Dichloropropane | 100 | 76 | 116 |
| | 050910LCS31 | | 2515707 | 1,3,5-Trimethylbenzene | 105 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 1,3-Dichlorobenzene | 102 | 75 | 115 |
| | 050910LCS31 | | 2515707 | 1,3-Dichloropropane | 98 | 75 | 115 |
| | 050910LCS31 | | 2515707 | 1,4-Dichlorobenzene | 96.5 | 77 | 117 |
| | 050910LCS31 | | 2515707 | 2,2-Dichloropropane | 102 | 72 | 128 |
| | 050910LCS31 | | 2515707 | 2-Butanone | 94 | 57 | 120 |
| | 050910LCS31 | | 2515707 | 2-Chlorotoluene | 101 | 76 | 116 |
| | 050910LCS31 | | 2515707 | 2-Hexanone | 97.5 | 57 | 121 |
| | 050910LCS31 | | 2515707 | 4-Chlorotoluene | 104 | 78 | 118 |
| | 050910LCS31 | | 2515707 | 4-Methyl-2-Pentanone | 95 | 65 | 118 |
| | 050910LCS31 | | 2515707 | Acetone | 104 | 48 | 130 |
| | 050910LCS31 | | 2515707 | Benzene | 99.5 | 77 | 118 |
| | 050910LCS31 | | 2515707 | Bromobenzene | 98 | 75 | 115 |
| | 050910LCS31 | | 2515707 | Bromochloromethane | 99.5 | 78 | 118 |
| | 050910LCS31 | | 2515707 | Bromodichloromethane | 102 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCS31 | WATER | 2515707 | Bromoform | 89.5 | 74 | 121 |
| | 050910LCS31 | | 2515707 | Bromomethane | 100 | 42 | 154 |
| | 050910LCS31 | | 2515707 | Carbon Disulfide | 103 | 56 | 104 |
| | 050910LCS31 | | 2515707 | Carbon tetrachloride | 104 | 80 | 120 |
| | 050910LCS31 | | 2515707 | Chlorobenzene | 101 | 78 | 118 |
| | 050910LCS31 | | 2515707 | Chloroethane | 101 | 51 | 133 |
| | 050910LCS31 | | 2515707 | Chloroform | 95.5 | 78 | 118 |
| | 050910LCS31 | | 2515707 | Chloromethane | 99 | 46 | 142 |
| | 050910LCS31 | | 2515707 | Cis-1,2-DCE | 98 | 75 | 115 |
| | 050910LCS31 | | 2515707 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 050910LCS31 | | 2515707 | Dibromochloromethane | 91 | 76 | 116 |
| | 050910LCS31 | | 2515707 | Dibromomethane | 99.5 | 77 | 117 |
| | 050910LCS31 | | 2515707 | Dichlorodifluoromethane | 93 | 56 | 140 |
| | 050910LCS31 | | 2515707 | Ethylbenzene | 100 | 78 | 118 |
| | 050910LCS31 | | 2515707 | Hexachlorobutadiene | 108 | 73 | 123 |
| | 050910LCS31 | | 2515707 | Isopropylbenzene | 104 | 71 | 113 |
| | 050910LCS31 | | 2515707 | m,p-Xylene | 101 | 78 | 118 |
| | 050910LCS31 | | 2515707 | Methyl tert-Butyl Ether | 96.5 | 58 | 116 |
| | 050910LCS31 | | 2515707 | Methylene chloride | 91.5 | 71 | 119 |
| | 050910LCS31 | | 2515707 | Naphthalene | 95.5 | 62 | 121 |
| | 050910LCS31 | | 2515707 | n-Butylbenzene | 109 | 76 | 117 |
| | 050910LCS31 | | 2515707 | n-Propylbenzene | 106 | 76 | 116 |
| | 050910LCS31 | | 2515707 | o-Xylene | 101 | 77 | 117 |
| | 050910LCS31 | | 2515707 | p-Isopropyltoluene | 106 | 76 | 113 |
| | 050910LCS31 | | 2515707 | Sec-Butylbenzene | 106 | 80 | 120 |
| | 050910LCS31 | | 2515707 | Styrene | 106 | 77 | 117 |
| | 050910LCS31 | | 2515707 | tert-Butylbenzene | 106 | 76 | 116 |
| | 050910LCS31 | | 2515707 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 050910LCS31 | | 2515707 | Toluene | 102 | 73 | 120 |
| | 050910LCS31 | | 2515707 | trans-1,2-Dichloroethene | 101 | 80 | 120 |
| | 050910LCS31 | | 2515707 | trans-1,3-Dichloropropene | 95 | 72 | 117 |
| | 050910LCS31 | | 2515707 | Trichloroethene | 100 | 78 | 122 |
| | 050910LCS31 | | 2515707 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 050910LCS31 | | 2515707 | Vinyl chloride | 99.5 | 49 | 136 |
| | 050910LCS31 | | 2515707 | Xylenes, Total | 101 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 1,1,1,2-Tetrachloroethane | 91.5 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 1,1,1-Trichloroethane | 93.5 | 78 | 118 |
| | 050910LCS61 | | 2515725 | 1,1,2,2-Tetrachloroethane | 91 | 73 | 119 |
| | 050910LCS61 | | 2515725 | 1,1,2-Trichloroethane | 92 | 76 | 116 |
| | 050910LCS61 | | 2515725 | 1,1-Dichloroethane | 95 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 1,1-Dichloroethene | 98 | 66 | 133 |
| | 050910LCS61 | | 2515725 | 1,1-Dichloropropene | 98 | 75 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCS61 | WATER | 2515725 | 1,2,3-Trichlorobenzene | 96 | 66 | 123 |
| | 050910LCS61 | | 2515725 | 1,2,3-Trichloropropane | 90 | 84 | 118 |
| | 050910LCS61 | | 2515725 | 1,2,4-Trichlorobenzene | 94 | 73 | 121 |
| | 050910LCS61 | | 2515725 | 1,2,4-Trimethylbenzene | 99 | 77 | 120 |
| | 050910LCS61 | | 2515725 | 1,2-Dibromo-3-chloropropane | 90.5 | 65 | 117 |
| | 050910LCS61 | | 2515725 | 1,2-Dibromoethane | 88.5 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 1,2-Dichlorobenzene | 89 | 76 | 116 |
| | 050910LCS61 | | 2515725 | 1,2-Dichloroethane | 91.5 | 74 | 120 |
| | 050910LCS61 | | 2515725 | 1,2-Dichloropropane | 92.5 | 76 | 116 |
| | 050910LCS61 | | 2515725 | 1,3,5-Trimethylbenzene | 100 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 1,3-Dichlorobenzene | 90.5 | 75 | 115 |
| | 050910LCS61 | | 2515725 | 1,3-Dichloropropane | 90 | 75 | 115 |
| | 050910LCS61 | | 2515725 | 1,4-Dichlorobenzene | 88.5 | 77 | 117 |
| | 050910LCS61 | | 2515725 | 2,2-Dichloropropane | 78.5 | 72 | 128 |
| | 050910LCS61 | | 2515725 | 2-Butanone | 102 | 57 | 120 |
| | 050910LCS61 | | 2515725 | 2-Chlorotoluene | 96 | 76 | 116 |
| | 050910LCS61 | | 2515725 | 2-Hexanone | 99.5 | 57 | 121 |
| | 050910LCS61 | | 2515725 | 4-Chlorotoluene | 97 | 78 | 118 |
| | 050910LCS61 | | 2515725 | 4-Methyl-2-Pentanone | 94 | 65 | 118 |
| | 050910LCS61 | | 2515725 | Acetone | 112 | 48 | 130 |
| | 050910LCS61 | | 2515725 | Benzene | 102 | 77 | 118 |
| | 050910LCS61 | | 2515725 | Bromobenzene | 94 | 75 | 115 |
| | 050910LCS61 | | 2515725 | Bromochloromethane | 96 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Bromodichloromethane | 92 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Bromoform | 88.5 | 74 | 121 |
| | 050910LCS61 | | 2515725 | Bromomethane | 70 | 42 | 154 |
| | 050910LCS61 | | 2515725 | Carbon Disulfide | 100 | 56 | 104 |
| | 050910LCS61 | | 2515725 | Carbon tetrachloride | 90.5 | 80 | 120 |
| | 050910LCS61 | | 2515725 | Chlorobenzene | 90 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Chloroethane | 98 | 51 | 133 |
| | 050910LCS61 | | 2515725 | Chloroform | 100 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Chloromethane | 93.5 | 46 | 142 |
| | 050910LCS61 | | 2515725 | Cis-1,2-DCE | 92 | 75 | 115 |
| | 050910LCS61 | | 2515725 | cis-1,3-Dichloropropene | 92.5 | 76 | 113 |
| | 050910LCS61 | | 2515725 | Dibromochloromethane | 88 | 76 | 116 |
| | 050910LCS61 | | 2515725 | Dibromomethane | 88 | 77 | 117 |
| | 050910LCS61 | | 2515725 | Dichlorodifluoromethane | 85 | 56 | 140 |
| | 050910LCS61 | | 2515725 | Ethylbenzene | 95.5 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Hexachlorobutadiene | 104 | 73 | 123 |
| | 050910LCS61 | | 2515725 | Isopropylbenzene | 98.5 | 71 | 113 |
| | 050910LCS61 | | 2515725 | m,p-Xylene | 93.5 | 78 | 118 |
| | 050910LCS61 | | 2515725 | Methyl tert-Butyl Ether | 76.5 | 58 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCS61 | WATER | 2515725 | Methylene chloride | 89 | 71 | 119 |
| | 050910LCS61 | | 2515725 | Naphthalene | 96 | 62 | 121 |
| | 050910LCS61 | | 2515725 | n-Butylbenzene | 102 | 76 | 117 |
| | 050910LCS61 | | 2515725 | n-Propylbenzene | 100 | 76 | 116 |
| | 050910LCS61 | | 2515725 | o-Xylene | 98 | 77 | 117 |
| | 050910LCS61 | | 2515725 | p-Isopropyltoluene | 99 | 76 | 113 |
| | 050910LCS61 | | 2515725 | Sec-Butylbenzene | 100 | 80 | 120 |
| | 050910LCS61 | | 2515725 | Styrene | 97 | 77 | 117 |
| | 050910LCS61 | | 2515725 | tert-Butylbenzene | 98 | 76 | 116 |
| | 050910LCS61 | | 2515725 | Tetrachloroethene | 94 | 77 | 117 |
| | 050910LCS61 | | 2515725 | Toluene | 96.5 | 73 | 120 |
| | 050910LCS61 | | 2515725 | trans-1,2-Dichloroethene | 91.5 | 80 | 120 |
| | 050910LCS61 | | 2515725 | trans-1,3-Dichloropropene | 92 | 72 | 117 |
| | 050910LCS61 | | 2515725 | Trichloroethene | 93 | 78 | 122 |
| | 050910LCS61 | | 2515725 | Trichlorofluoromethane | 102 | 65 | 190 |
| | 050910LCS61 | | 2515725 | Vinyl chloride | 94.5 | 49 | 136 |
| | 050910LCS61 | | 2515725 | Xylenes, Total | 95.2 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 1,1,1,2-Tetrachloroethane | 90 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 1,1,1-Trichloroethane | 92 | 78 | 118 |
| | 050910LCS61D | | 2515725 | 1,1,2,2-Tetrachloroethane | 93.5 | 73 | 119 |
| | 050910LCS61D | | 2515725 | 1,1,2-Trichloroethane | 91.5 | 76 | 116 |
| | 050910LCS61D | | 2515725 | 1,1-Dichloroethane | 94 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 1,1-Dichloroethene | 97 | 66 | 133 |
| | 050910LCS61D | | 2515725 | 1,1-Dichloropropene | 95.5 | 75 | 115 |
| | 050910LCS61D | | 2515725 | 1,2,3-Trichlorobenzene | 93.5 | 66 | 123 |
| | 050910LCS61D | | 2515725 | 1,2,3-Trichloropropane | 90.5 | 84 | 118 |
| | 050910LCS61D | | 2515725 | 1,2,4-Trichlorobenzene | 93.5 | 73 | 121 |
| | 050910LCS61D | | 2515725 | 1,2,4-Trimethylbenzene | 98 | 77 | 120 |
| | 050910LCS61D | | 2515725 | 1,2-Dibromo-3-chloropropane | 92 | 65 | 117 |
| | 050910LCS61D | | 2515725 | 1,2-Dibromoethane | 91 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 1,2-Dichlorobenzene | 88.5 | 76 | 116 |
| | 050910LCS61D | | 2515725 | 1,2-Dichloroethane | 91 | 74 | 120 |
| | 050910LCS61D | | 2515725 | 1,2-Dichloropropane | 91.5 | 76 | 116 |
| | 050910LCS61D | | 2515725 | 1,3,5-Trimethylbenzene | 98 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 1,3-Dichlorobenzene | 88 | 75 | 115 |
| | 050910LCS61D | | 2515725 | 1,3-Dichloropropane | 90 | 75 | 115 |
| | 050910LCS61D | | 2515725 | 1,4-Dichlorobenzene | 88 | 77 | 117 |
| | 050910LCS61D | | 2515725 | 2-Butanone | 89 | 57 | 120 |
| | 050910LCS61D | | 2515725 | 2-Chlorotoluene | 94 | 76 | 116 |
| | 050910LCS61D | | 2515725 | 2-Hexanone | 89.5 | 57 | 121 |
| | 050910LCS61D | | 2515725 | 4-Chlorotoluene | 95 | 78 | 118 |
| | 050910LCS61D | | 2515725 | 4-Methyl-2-Pentanone | 94.2 | 65 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCS61D | WATER | 2515725 | Acetone | 88.5 | 48 | 130 |
| | 050910LCS61D | | 2515725 | Benzene | 99.5 | 77 | 118 |
| | 050910LCS61D | | 2515725 | Bromobenzene | 93 | 75 | 115 |
| | 050910LCS61D | | 2515725 | Bromochloromethane | 96.5 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Bromodichloromethane | 90.5 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Bromoform | 88 | 74 | 121 |
| | 050910LCS61D | | 2515725 | Bromomethane | 73 | 42 | 154 |
| | 050910LCS61D | | 2515725 | Carbon Disulfide | 97.5 | 56 | 104 |
| | 050910LCS61D | | 2515725 | Carbon tetrachloride | 86.5 | 80 | 120 |
| | 050910LCS61D | | 2515725 | Chlorobenzene | 89 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Chloroethane | 99.5 | 51 | 133 |
| | 050910LCS61D | | 2515725 | Chloroform | 100 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Chloromethane | 114 | 46 | 142 |
| | 050910LCS61D | | 2515725 | Cis-1,2-DCE | 92.5 | 75 | 115 |
| | 050910LCS61D | | 2515725 | cis-1,3-Dichloropropene | 92.5 | 76 | 113 |
| | 050910LCS61D | | 2515725 | Dibromochloromethane | 87 | 76 | 116 |
| | 050910LCS61D | | 2515725 | Dibromomethane | 90 | 77 | 117 |
| | 050910LCS61D | | 2515725 | Dichlorodifluoromethane | 84 | 56 | 140 |
| | 050910LCS61D | | 2515725 | Ethylbenzene | 94.5 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Hexachlorobutadiene | 99 | 73 | 123 |
| | 050910LCS61D | | 2515725 | Isopropylbenzene | 97 | 71 | 113 |
| | 050910LCS61D | | 2515725 | m,p-Xylene | 92 | 78 | 118 |
| | 050910LCS61D | | 2515725 | Methyl tert-Butyl Ether | 79.5 | 58 | 116 |
| | 050910LCS61D | | 2515725 | Methylene chloride | 90.5 | 71 | 119 |
| | 050910LCS61D | | 2515725 | Naphthalene | 96 | 62 | 121 |
| | 050910LCS61D | | 2515725 | n-Butylbenzene | 100 | 76 | 117 |
| | 050910LCS61D | | 2515725 | n-Propylbenzene | 99 | 76 | 116 |
| | 050910LCS61D | | 2515725 | o-Xylene | 96.5 | 77 | 117 |
| | 050910LCS61D | | 2515725 | p-Isopropyltoluene | 98.5 | 76 | 113 |
| | 050910LCS61D | | 2515725 | Sec-Butylbenzene | 99 | 80 | 120 |
| | 050910LCS61D | | 2515725 | Styrene | 96 | 77 | 117 |
| | 050910LCS61D | | 2515725 | tert-Butylbenzene | 96.5 | 76 | 116 |
| | 050910LCS61D | | 2515725 | Tetrachloroethene | 93 | 77 | 117 |
| | 050910LCS61D | | 2515725 | Toluene | 95.5 | 73 | 120 |
| | 050910LCS61D | | 2515725 | trans-1,2-Dichloroethene | 91.5 | 80 | 120 |
| | 050910LCS61D | | 2515725 | trans-1,3-Dichloropropene | 90.5 | 72 | 117 |
| | 050910LCS61D | | 2515725 | Trichloroethene | 91 | 78 | 122 |
| | 050910LCS61D | | 2515725 | Trichlorofluoromethane | 99.5 | 65 | 190 |
| | 050910LCS61D | | 2515725 | Vinyl chloride | 93 | 49 | 136 |
| | 050910LCS61D | | 2515725 | Xylenes, Total | 93.5 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 1,1,1,2-Tetrachloroethane | 94.5 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 1,1,1-Trichloroethane | 97.5 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCSA31D | WATER | 2515707 | 1,1,2,2-Tetrachloroethane | 94 | 73 | 119 |
| | 050910LCSA31D | | 2515707 | 1,1,2-Trichloroethane | 97 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | 1,1-Dichloroethane | 94 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 1,1-Dichloroethene | 96 | 66 | 133 |
| | 050910LCSA31D | | 2515707 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 050910LCSA31D | | 2515707 | 1,2,3-Trichlorobenzene | 91 | 66 | 123 |
| | 050910LCSA31D | | 2515707 | 1,2,3-Trichloropropane | 94 | 84 | 118 |
| | 050910LCSA31D | | 2515707 | 1,2,4-Trichlorobenzene | 93 | 73 | 121 |
| | 050910LCSA31D | | 2515707 | 1,2,4-Trimethylbenzene | 100 | 77 | 120 |
| | 050910LCSA31D | | 2515707 | 1,2-Dibromo-3-chloropropane | 83 | 65 | 117 |
| | 050910LCSA31D | | 2515707 | 1,2-Dibromoethane | 94.5 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 1,2-Dichlorobenzene | 93 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | 1,2-Dichloroethane | 96.5 | 74 | 120 |
| | 050910LCSA31D | | 2515707 | 1,2-Dichloropropane | 97.5 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 1,3-Dichlorobenzene | 98.5 | 75 | 115 |
| | 050910LCSA31D | | 2515707 | 1,3-Dichloropropane | 94 | 75 | 115 |
| | 050910LCSA31D | | 2515707 | 1,4-Dichlorobenzene | 94 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | 2,2-Dichloropropane | 97.5 | 72 | 128 |
| | 050910LCSA31D | | 2515707 | 2-Butanone | 86.8 | 57 | 120 |
| | 050910LCSA31D | | 2515707 | 2-Chlorotoluene | 96 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | 2-Hexanone | 88.8 | 57 | 121 |
| | 050910LCSA31D | | 2515707 | 4-Chlorotoluene | 99.5 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | 4-Methyl-2-Pentanone | 90 | 65 | 118 |
| | 050910LCSA31D | | 2515707 | Acetone | 92.2 | 48 | 130 |
| | 050910LCSA31D | | 2515707 | Benzene | 96 | 77 | 118 |
| | 050910LCSA31D | | 2515707 | Bromobenzene | 95.5 | 75 | 115 |
| | 050910LCSA31D | | 2515707 | Bromochloromethane | 96.5 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Bromodichloromethane | 97.5 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Bromoform | 83 | 74 | 121 |
| | 050910LCSA31D | | 2515707 | Bromomethane | 96 | 42 | 154 |
| | 050910LCSA31D | | 2515707 | Carbon Disulfide | 99 | 56 | 104 |
| | 050910LCSA31D | | 2515707 | Carbon tetrachloride | 99 | 80 | 120 |
| | 050910LCSA31D | | 2515707 | Chlorobenzene | 94.5 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Chloroethane | 95.5 | 51 | 133 |
| | 050910LCSA31D | | 2515707 | Chloroform | 92.5 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Chloromethane | 89.5 | 46 | 142 |
| | 050910LCSA31D | | 2515707 | Cis-1,2-DCE | 96.5 | 75 | 115 |
| | 050910LCSA31D | | 2515707 | cis-1,3-Dichloropropene | 98.5 | 76 | 113 |
| | 050910LCSA31D | | 2515707 | Dibromochloromethane | 88 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | Dibromomethane | 94 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | Dichlorodifluoromethane | 86.5 | 56 | 140 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 050910LCSA31D | WATER | 2515707 | Ethylbenzene | 95 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Hexachlorobutadiene | 100 | 73 | 123 |
| | 050910LCSA31D | | 2515707 | Isopropylbenzene | 99.5 | 71 | 113 |
| | 050910LCSA31D | | 2515707 | m,p-Xylene | 95 | 78 | 118 |
| | 050910LCSA31D | | 2515707 | Methyl tert-Butyl Ether | 92.5 | 58 | 116 |
| | 050910LCSA31D | | 2515707 | Methylene chloride | 87 | 71 | 119 |
| | 050910LCSA31D | | 2515707 | Naphthalene | 90.5 | 62 | 121 |
| | 050910LCSA31D | | 2515707 | n-Butylbenzene | 101 | 76 | 117 |
| | 050910LCSA31D | | 2515707 | n-Propylbenzene | 102 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | o-Xylene | 94.5 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | p-Isopropyltoluene | 101 | 76 | 113 |
| | 050910LCSA31D | | 2515707 | Sec-Butylbenzene | 100 | 80 | 120 |
| | 050910LCSA31D | | 2515707 | Styrene | 100 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | tert-Butylbenzene | 100 | 76 | 116 |
| | 050910LCSA31D | | 2515707 | Tetrachloroethene | 91.5 | 77 | 117 |
| | 050910LCSA31D | | 2515707 | Toluene | 96 | 73 | 120 |
| | 050910LCSA31D | | 2515707 | trans-1,2-Dichloroethene | 97 | 80 | 120 |
| | 050910LCSA31D | | 2515707 | trans-1,3-Dichloropropene | 91.5 | 72 | 117 |
| | 050910LCSA31D | | 2515707 | Trichloroethene | 95 | 78 | 122 |
| | 050910LCSA31D | | 2515707 | Trichlorofluoromethane | 100 | 65 | 190 |
| | 050910LCSA31D | | 2515707 | Vinyl chloride | 85 | 49 | 136 |
| | 050910LCSA31D | | 2515707 | Xylenes, Total | 95 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | 1,1,1,2-Tetrachloroethane | 95 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | 1,1,1-Trichloroethane | 103 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | 1,1,2,2-Tetrachloroethane | 99.5 | 73 | 119 |
| | 051010LCSA31 | | 2515736 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | 1,1-Dichloroethane | 98 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | 1,1-Dichloroethene | 106 | 66 | 133 |
| | 051010LCSA31 | | 2515736 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 051010LCSA31 | | 2515736 | 1,2,3-Trichlorobenzene | 99 | 66 | 123 |
| | 051010LCSA31 | | 2515736 | 1,2,3-Trichloropropane | 98 | 84 | 118 |
| | 051010LCSA31 | | 2515736 | 1,2,4-Trichlorobenzene | 102 | 73 | 121 |
| | 051010LCSA31 | | 2515736 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 051010LCSA31 | | 2515736 | 1,2-Dibromo-3-chloropropane | 83.5 | 65 | 117 |
| | 051010LCSA31 | | 2515736 | 1,2-Dibromoethane | 97 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | 1,2-Dichlorobenzene | 102 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | 1,2-Dichloroethane | 103 | 74 | 120 |
| | 051010LCSA31 | | 2515736 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | 1,3,5-Trimethylbenzene | 106 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | 1,3-Dichlorobenzene | 104 | 75 | 115 |
| | 051010LCSA31 | | 2515736 | 1,3-Dichloropropane | 98 | 75 | 115 |
| | 051010LCSA31 | | 2515736 | 1,4-Dichlorobenzene | 100 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051010LCSA31 | WATER | 2515736 | 2,2-Dichloropropane | 97.5 | 72 | 128 |
| | 051010LCSA31 | | 2515736 | 2-Butanone | 90 | 57 | 120 |
| | 051010LCSA31 | | 2515736 | 2-Chlorotoluene | 108 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | 2-Hexanone | 90.5 | 57 | 121 |
| | 051010LCSA31 | | 2515736 | 4-Chlorotoluene | 106 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | 4-Methyl-2-Pentanone | 93.2 | 65 | 118 |
| | 051010LCSA31 | | 2515736 | Acetone | 102 | 48 | 130 |
| | 051010LCSA31 | | 2515736 | Benzene | 101 | 77 | 118 |
| | 051010LCSA31 | | 2515736 | Bromobenzene | 101 | 75 | 115 |
| | 051010LCSA31 | | 2515736 | Bromochloromethane | 102 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Bromodichloromethane | 99 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Bromoform | 81.5 | 74 | 121 |
| | 051010LCSA31 | | 2515736 | Bromomethane | 102 | 42 | 154 |
| | 051010LCSA31 | | 2515736 | **Carbon Disulfide** | **108** | **56** | **104** |
| | 051010LCSA31 | | 2515736 | Carbon tetrachloride | 98.5 | 80 | 120 |
| | 051010LCSA31 | | 2515736 | Chlorobenzene | 101 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Chloroethane | 108 | 51 | 133 |
| | 051010LCSA31 | | 2515736 | Chloroform | 96 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Chloromethane | 104 | 46 | 142 |
| | 051010LCSA31 | | 2515736 | Cis-1,2-DCE | 95.5 | 75 | 115 |
| | 051010LCSA31 | | 2515736 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 051010LCSA31 | | 2515736 | Dibromochloromethane | 87 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | Dibromomethane | 100 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | Dichlorodifluoromethane | 106 | 56 | 140 |
| | 051010LCSA31 | | 2515736 | Ethylbenzene | 99.5 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Hexachlorobutadiene | 102 | 73 | 123 |
| | 051010LCSA31 | | 2515736 | Isopropylbenzene | 105 | 71 | 113 |
| | 051010LCSA31 | | 2515736 | m,p-Xylene | 99 | 78 | 118 |
| | 051010LCSA31 | | 2515736 | Methyl tert-Butyl Ether | 95.5 | 58 | 116 |
| | 051010LCSA31 | | 2515736 | Methylene chloride | 94.5 | 71 | 119 |
| | 051010LCSA31 | | 2515736 | Naphthalene | 91.5 | 62 | 121 |
| | 051010LCSA31 | | 2515736 | n-Butylbenzene | 110 | 76 | 117 |
| | 051010LCSA31 | | 2515736 | n-Propylbenzene | 108 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | o-Xylene | 100 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | p-Isopropyltoluene | 106 | 76 | 113 |
| | 051010LCSA31 | | 2515736 | Sec-Butylbenzene | 106 | 80 | 120 |
| | 051010LCSA31 | | 2515736 | Styrene | 106 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | tert-Butylbenzene | 104 | 76 | 116 |
| | 051010LCSA31 | | 2515736 | Tetrachloroethene | 96.5 | 77 | 117 |
| | 051010LCSA31 | | 2515736 | Toluene | 103 | 73 | 120 |
| | 051010LCSA31 | | 2515736 | trans-1,2-Dichloroethene | 98.5 | 80 | 120 |
| | 051010LCSA31 | | 2515736 | trans-1,3-Dichloropropene | 93.5 | 72 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051010LCSA31 | WATER | 2515736 | Trichloroethene | 96.5 | 78 | 122 |
| | 051010LCSA31 | | 2515736 | Trichlorofluoromethane | 106 | 65 | 190 |
| | 051010LCSA31 | | 2515736 | Vinyl chloride | 101 | 49 | 136 |
| | 051010LCSA31 | | 2515736 | Xylenes, Total | 99.3 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 1,1,1,2-Tetrachloroethane | 100 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 1,1,1-Trichloroethane | 112 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | 1,1,2,2-Tetrachloroethane | 99.5 | 73 | 119 |
| | 051010LCSA31D | | 2515736 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 1,1-Dichloroethene | 110 | 66 | 133 |
| | 051010LCSA31D | | 2515736 | 1,1-Dichloropropene | 108 | 75 | 115 |
| | 051010LCSA31D | | 2515736 | 1,2,3-Trichlorobenzene | 98 | 66 | 123 |
| | 051010LCSA31D | | 2515736 | 1,2,3-Trichloropropane | 94 | 84 | 118 |
| | 051010LCSA31D | | 2515736 | 1,2,4-Trichlorobenzene | 99 | 73 | 121 |
| | 051010LCSA31D | | 2515736 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 051010LCSA31D | | 2515736 | 1,2-Dibromo-3-chloropropane | 87.5 | 65 | 117 |
| | 051010LCSA31D | | 2515736 | 1,2-Dibromoethane | 100 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 1,2-Dichlorobenzene | 102 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 051010LCSA31D | | 2515736 | 1,2-Dichloropropane | 104 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | 1,3,5-Trimethylbenzene | 110 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 1,3-Dichlorobenzene | 106 | 75 | 115 |
| | 051010LCSA31D | | 2515736 | 1,3-Dichloropropane | 101 | 75 | 115 |
| | 051010LCSA31D | | 2515736 | 1,4-Dichlorobenzene | 102 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | 2,2-Dichloropropane | 108 | 72 | 128 |
| | 051010LCSA31D | | 2515736 | 2-Butanone | 93 | 57 | 120 |
| | 051010LCSA31D | | 2515736 | 2-Chlorotoluene | 108 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | 2-Hexanone | 93 | 57 | 121 |
| | 051010LCSA31D | | 2515736 | 4-Chlorotoluene | 110 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | 4-Methyl-2-Pentanone | 93.5 | 65 | 118 |
| | 051010LCSA31D | | 2515736 | Acetone | 106 | 48 | 130 |
| | 051010LCSA31D | | 2515736 | Benzene | 104 | 77 | 118 |
| | 051010LCSA31D | | 2515736 | Bromobenzene | 101 | 75 | 115 |
| | 051010LCSA31D | | 2515736 | Bromochloromethane | 104 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | Bromodichloromethane | 102 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | Bromoform | 82.5 | 74 | 121 |
| | 051010LCSA31D | | 2515736 | Bromomethane | 89.5 | 42 | 154 |
| | 051010LCSA31D | | 2515736 | **Carbon Disulfide** | **111** | **56** | **104** |
| | 051010LCSA31D | | 2515736 | Carbon tetrachloride | 106 | 80 | 120 |
| | 051010LCSA31D | | 2515736 | Chlorobenzene | 104 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | Chloroethane | 93.5 | 51 | 133 |
| | 051010LCSA31D | | 2515736 | Chloroform | 99.5 | 78 | 118 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051010LCSA31D | WATER | 2515736 | Chloromethane | 101 | 46 | 142 |
| | 051010LCSA31D | | 2515736 | Cis-1,2-DCE | 99.5 | 75 | 115 |
| | 051010LCSA31D | | 2515736 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 051010LCSA31D | | 2515736 | Dibromochloromethane | 89.5 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | Dibromomethane | 99 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | Dichlorodifluoromethane | 110 | 56 | 140 |
| | 051010LCSA31D | | 2515736 | Ethylbenzene | 103 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | Hexachlorobutadiene | 112 | 73 | 123 |
| | 051010LCSA31D | | 2515736 | Isopropylbenzene | 108 | 71 | 113 |
| | 051010LCSA31D | | 2515736 | m,p-Xylene | 102 | 78 | 118 |
| | 051010LCSA31D | | 2515736 | Methyl tert-Butyl Ether | 96 | 58 | 116 |
| | 051010LCSA31D | | 2515736 | Methylene chloride | 98 | 71 | 119 |
| | 051010LCSA31D | | 2515736 | Naphthalene | 93.5 | 62 | 121 |
| | 051010LCSA31D | | 2515736 | n-Butylbenzene | 112 | 76 | 117 |
| | 051010LCSA31D | | 2515736 | n-Propylbenzene | 113 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | o-Xylene | 104 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | p-Isopropyltoluene | 111 | 76 | 113 |
| | 051010LCSA31D | | 2515736 | Sec-Butylbenzene | 111 | 80 | 120 |
| | 051010LCSA31D | | 2515736 | Styrene | 108 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | tert-Butylbenzene | 106 | 76 | 116 |
| | 051010LCSA31D | | 2515736 | Tetrachloroethene | 104 | 77 | 117 |
| | 051010LCSA31D | | 2515736 | Toluene | 106 | 73 | 120 |
| | 051010LCSA31D | | 2515736 | trans-1,2-Dichloroethene | 105 | 80 | 120 |
| | 051010LCSA31D | | 2515736 | trans-1,3-Dichloropropene | 94.5 | 72 | 117 |
| | 051010LCSA31D | | 2515736 | Trichloroethene | 102 | 78 | 122 |
| | 051010LCSA31D | | 2515736 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 051010LCSA31D | | 2515736 | Vinyl chloride | 105 | 49 | 136 |
| | 051010LCSA31D | | 2515736 | Xylenes, Total | 103 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 1,1,1,2-Tetrachloroethane | 99.5 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 1,1,1-Trichloroethane | 106 | 78 | 118 |
| | 051210LCS61 | | 2515786 | 1,1,2,2-Tetrachloroethane | 96.5 | 73 | 119 |
| | 051210LCS61 | | 2515786 | 1,1,2-Trichloroethane | 105 | 76 | 116 |
| | 051210LCS61 | | 2515786 | 1,1-Dichloroethane | 102 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 1,1-Dichloroethene | 102 | 66 | 133 |
| | 051210LCS61 | | 2515786 | 1,1-Dichloropropene | 108 | 75 | 115 |
| | 051210LCS61 | | 2515786 | 1,2,3-Trichlorobenzene | 96.5 | 66 | 123 |
| | 051210LCS61 | | 2515786 | 1,2,3-Trichloropropane | 98 | 84 | 118 |
| | 051210LCS61 | | 2515786 | 1,2,4-Trichlorobenzene | 97 | 73 | 121 |
| | 051210LCS61 | | 2515786 | 1,2,4-Trimethylbenzene | 103 | 77 | 120 |
| | 051210LCS61 | | 2515786 | 1,2-Dibromo-3-chloropropane | 107 | 65 | 117 |
| | 051210LCS61 | | 2515786 | 1,2-Dibromoethane | 99.5 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 1,2-Dichlorobenzene | 97.5 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051210LCS61 | WATER | 2515786 | 1,2-Dichloroethane | 100 | 74 | 120 |
| | 051210LCS61 | | 2515786 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051210LCS61 | | 2515786 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 1,3-Dichlorobenzene | 96.5 | 75 | 115 |
| | 051210LCS61 | | 2515786 | 1,3-Dichloropropane | 99 | 75 | 115 |
| | 051210LCS61 | | 2515786 | 1,4-Dichlorobenzene | 105 | 77 | 117 |
| | 051210LCS61 | | 2515786 | 2,2-Dichloropropane | 99 | 72 | 128 |
| | 051210LCS61 | | 2515786 | 2-Butanone | 101 | 57 | 120 |
| | 051210LCS61 | | 2515786 | 2-Chlorotoluene | 99 | 76 | 116 |
| | 051210LCS61 | | 2515786 | 2-Hexanone | 90.5 | 57 | 121 |
| | 051210LCS61 | | 2515786 | 4-Chlorotoluene | 99 | 78 | 118 |
| | 051210LCS61 | | 2515786 | 4-Methyl-2-Pentanone | 110 | 65 | 118 |
| | 051210LCS61 | | 2515786 | Acetone | 94.8 | 48 | 130 |
| | 051210LCS61 | | 2515786 | Benzene | 97.5 | 77 | 118 |
| | 051210LCS61 | | 2515786 | Bromobenzene | 97.5 | 75 | 115 |
| | 051210LCS61 | | 2515786 | Bromochloromethane | 104 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Bromodichloromethane | 104 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Bromoform | 103 | 74 | 121 |
| | 051210LCS61 | | 2515786 | Bromomethane | 104 | 42 | 154 |
| | 051210LCS61 | | 2515786 | Carbon Disulfide | 104 | 56 | 104 |
| | 051210LCS61 | | 2515786 | Carbon tetrachloride | 100 | 80 | 120 |
| | 051210LCS61 | | 2515786 | Chlorobenzene | 96 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Chloroethane | 102 | 51 | 133 |
| | 051210LCS61 | | 2515786 | Chloroform | 110 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Chloromethane | 103 | 46 | 142 |
| | 051210LCS61 | | 2515786 | Cis-1,2-DCE | 100 | 75 | 115 |
| | 051210LCS61 | | 2515786 | cis-1,3-Dichloropropene | 104 | 76 | 113 |
| | 051210LCS61 | | 2515786 | Dibromochloromethane | 100 | 76 | 116 |
| | 051210LCS61 | | 2515786 | Dibromomethane | 117 | 77 | 117 |
| | 051210LCS61 | | 2515786 | Dichlorodifluoromethane | 103 | 56 | 140 |
| | 051210LCS61 | | 2515786 | Ethylbenzene | 102 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 051210LCS61 | | 2515786 | Isopropylbenzene | 102 | 71 | 113 |
| | 051210LCS61 | | 2515786 | m,p-Xylene | 101 | 78 | 118 |
| | 051210LCS61 | | 2515786 | Methyl tert-Butyl Ether | 102 | 58 | 116 |
| | 051210LCS61 | | 2515786 | Methylene chloride | 111 | 71 | 119 |
| | 051210LCS61 | | 2515786 | Naphthalene | 103 | 62 | 121 |
| | 051210LCS61 | | 2515786 | n-Butylbenzene | 104 | 76 | 117 |
| | 051210LCS61 | | 2515786 | n-Propylbenzene | 104 | 76 | 116 |
| | 051210LCS61 | | 2515786 | o-Xylene | 103 | 77 | 117 |
| | 051210LCS61 | | 2515786 | p-Isopropyltoluene | 103 | 76 | 113 |
| | 051210LCS61 | | 2515786 | Sec-Butylbenzene | 104 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051210LCS61 | WATER | 2515786 | Styrene | 104 | 77 | 117 |
| | 051210LCS61 | | 2515786 | tert-Butylbenzene | 103 | 76 | 116 |
| | 051210LCS61 | | 2515786 | Tetrachloroethene | 96.5 | 77 | 117 |
| | 051210LCS61 | | 2515786 | Toluene | 105 | 73 | 120 |
| | 051210LCS61 | | 2515786 | trans-1,2-Dichloroethene | 98 | 80 | 120 |
| | 051210LCS61 | | 2515786 | trans-1,3-Dichloropropene | 104 | 72 | 117 |
| | 051210LCS61 | | 2515786 | Trichloroethene | 99.5 | 78 | 122 |
| | 051210LCS61 | | 2515786 | Trichlorofluoromethane | 110 | 65 | 190 |
| | 051210LCS61 | | 2515786 | Vinyl chloride | 102 | 49 | 136 |
| | 051210LCS61 | | 2515786 | Xylenes, Total | 102 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 1,1,1,2-Tetrachloroethane | 99 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 1,1,1-Trichloroethane | 106 | 78 | 118 |
| | 051210LCS61D | | 2515786 | 1,1,2,2-Tetrachloroethane | 99.5 | 73 | 119 |
| | 051210LCS61D | | 2515786 | 1,1,2-Trichloroethane | 104 | 76 | 116 |
| | 051210LCS61D | | 2515786 | 1,1-Dichloroethane | 104 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 1,1-Dichloroethene | 104 | 66 | 133 |
| | 051210LCS61D | | 2515786 | 1,1-Dichloropropene | 108 | 75 | 115 |
| | 051210LCS61D | | 2515786 | 1,2,3-Trichlorobenzene | 99.5 | 66 | 123 |
| | 051210LCS61D | | 2515786 | 1,2,3-Trichloropropane | 102 | 84 | 118 |
| | 051210LCS61D | | 2515786 | 1,2,4-Trichlorobenzene | 101 | 73 | 121 |
| | 051210LCS61D | | 2515786 | 1,2,4-Trimethylbenzene | 108 | 77 | 120 |
| | 051210LCS61D | | 2515786 | 1,2-Dibromo-3-chloropropane | 104 | 65 | 117 |
| | 051210LCS61D | | 2515786 | 1,2-Dibromoethane | 102 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 1,2-Dichlorobenzene | 100 | 76 | 116 |
| | 051210LCS61D | | 2515786 | 1,2-Dichloroethane | 97 | 74 | 120 |
| | 051210LCS61D | | 2515786 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051210LCS61D | | 2515786 | 1,3,5-Trimethylbenzene | 107 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 1,3-Dichlorobenzene | 98.5 | 75 | 115 |
| | 051210LCS61D | | 2515786 | 1,3-Dichloropropane | 102 | 75 | 115 |
| | 051210LCS61D | | 2515786 | 1,4-Dichlorobenzene | 110 | 77 | 117 |
| | 051210LCS61D | | 2515786 | 2,2-Dichloropropane | 77.5 | 72 | 128 |
| | 051210LCS61D | | 2515786 | 2-Butanone | 92.8 | 57 | 120 |
| | 051210LCS61D | | 2515786 | 2-Chlorotoluene | 106 | 76 | 116 |
| | 051210LCS61D | | 2515786 | 2-Hexanone | 89.5 | 57 | 121 |
| | 051210LCS61D | | 2515786 | 4-Chlorotoluene | 104 | 78 | 118 |
| | 051210LCS61D | | 2515786 | 4-Methyl-2-Pentanone | 108 | 65 | 118 |
| | 051210LCS61D | | 2515786 | Acetone | 83.5 | 48 | 130 |
| | 051210LCS61D | | 2515786 | Benzene | 100 | 77 | 118 |
| | 051210LCS61D | | 2515786 | Bromobenzene | 101 | 75 | 115 |
| | 051210LCS61D | | 2515786 | Bromochloromethane | 102 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Bromodichloromethane | 102 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Bromoform | 104 | 74 | 121 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051210LCS61D | WATER | 2515786 | Bromomethane | 108 | 42 | 154 |
| | 051210LCS61D | | 2515786 | **Carbon Disulfide** | **105** | **56** | **104** |
| | 051210LCS61D | | 2515786 | Carbon tetrachloride | 97.5 | 80 | 120 |
| | 051210LCS61D | | 2515786 | Chlorobenzene | 99 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Chloroethane | 103 | 51 | 133 |
| | 051210LCS61D | | 2515786 | Chloroform | 110 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Chloromethane | 104 | 46 | 142 |
| | 051210LCS61D | | 2515786 | Cis-1,2-DCE | 100 | 75 | 115 |
| | 051210LCS61D | | 2515786 | cis-1,3-Dichloropropene | 102 | 76 | 113 |
| | 051210LCS61D | | 2515786 | Dibromochloromethane | 99.5 | 76 | 116 |
| | 051210LCS61D | | 2515786 | Dibromomethane | 110 | 77 | 117 |
| | 051210LCS61D | | 2515786 | Dichlorodifluoromethane | 104 | 56 | 140 |
| | 051210LCS61D | | 2515786 | Ethylbenzene | 104 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Hexachlorobutadiene | 109 | 73 | 123 |
| | 051210LCS61D | | 2515786 | Isopropylbenzene | 107 | 71 | 113 |
| | 051210LCS61D | | 2515786 | m,p-Xylene | 106 | 78 | 118 |
| | 051210LCS61D | | 2515786 | Methyl tert-Butyl Ether | 82 | 58 | 116 |
| | 051210LCS61D | | 2515786 | Methylene chloride | 110 | 71 | 119 |
| | 051210LCS61D | | 2515786 | Naphthalene | 105 | 62 | 121 |
| | 051210LCS61D | | 2515786 | n-Butylbenzene | 110 | 76 | 117 |
| | 051210LCS61D | | 2515786 | n-Propylbenzene | 108 | 76 | 116 |
| | 051210LCS61D | | 2515786 | o-Xylene | 107 | 77 | 117 |
| | 051210LCS61D | | 2515786 | p-Isopropyltoluene | 108 | 76 | 113 |
| | 051210LCS61D | | 2515786 | Sec-Butylbenzene | 108 | 80 | 120 |
| | 051210LCS61D | | 2515786 | Styrene | 109 | 77 | 117 |
| | 051210LCS61D | | 2515786 | tert-Butylbenzene | 108 | 76 | 116 |
| | 051210LCS61D | | 2515786 | Tetrachloroethene | 104 | 77 | 117 |
| | 051210LCS61D | | 2515786 | Toluene | 106 | 73 | 120 |
| | 051210LCS61D | | 2515786 | trans-1,2-Dichloroethene | 98 | 80 | 120 |
| | 051210LCS61D | | 2515786 | trans-1,3-Dichloropropene | 102 | 72 | 117 |
| | 051210LCS61D | | 2515786 | Trichloroethene | 101 | 78 | 122 |
| | 051210LCS61D | | 2515786 | Trichlorofluoromethane | 114 | 65 | 190 |
| | 051210LCS61D | | 2515786 | Vinyl chloride | 104 | 49 | 136 |
| | 051210LCS61D | | 2515786 | Xylenes, Total | 106 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 1,1,1,2-Tetrachloroethane | 108 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 1,1,1-Trichloroethane | 116 | 78 | 118 |
| | 0512LCS51 | | 2515752 | 1,1,2,2-Tetrachloroethane | 95 | 73 | 119 |
| | 0512LCS51 | | 2515752 | **1,1,2-Trichloroethane** | **119** | **76** | **116** |
| | 0512LCS51 | | 2515752 | 1,1-Dichloroethane | 109 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 1,1-Dichloroethene | 112 | 66 | 133 |
| | 0512LCS51 | | 2515752 | **1,1-Dichloropropene** | **116** | **75** | **115** |
| | 0512LCS51 | | 2515752 | 1,2,3-Trichlorobenzene | 107 | 66 | 123 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0512LCS51 | WATER | 2515752 | 1,2,3-Trichloropropane | 94.5 | 84 | 118 |
| | 0512LCS51 | | 2515752 | 1,2,4-Trichlorobenzene | 112 | 73 | 121 |
| | 0512LCS51 | | 2515752 | 1,2,4-Trimethylbenzene | 112 | 77 | 120 |
| | 0512LCS51 | | 2515752 | 1,2-Dibromo-3-chloropropane | 82.5 | 65 | 117 |
| | 0512LCS51 | | 2515752 | 1,2-Dibromoethane | 101 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 1,2-Dichlorobenzene | 108 | 76 | 116 |
| | 0512LCS51 | | 2515752 | 1,2-Dichloroethane | 108 | 74 | 120 |
| | 0512LCS51 | | 2515752 | 1,2-Dichloropropane | 112 | 76 | 116 |
| | 0512LCS51 | | 2515752 | 1,3,5-Trimethylbenzene | 115 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 1,3-Dichlorobenzene | 109 | 75 | 115 |
| | 0512LCS51 | | 2515752 | 1,3-Dichloropropane | 100 | 75 | 115 |
| | 0512LCS51 | | 2515752 | 1,4-Dichlorobenzene | 108 | 77 | 117 |
| | 0512LCS51 | | 2515752 | 2,2-Dichloropropane | 110 | 72 | 128 |
| | 0512LCS51 | | 2515752 | 2-Butanone | 94.8 | 57 | 120 |
| | 0512LCS51 | | 2515752 | 2-Chlorotoluene | 112 | 76 | 116 |
| | 0512LCS51 | | 2515752 | 2-Hexanone | 88 | 57 | 121 |
| | 0512LCS51 | | 2515752 | 4-Chlorotoluene | 112 | 78 | 118 |
| | 0512LCS51 | | 2515752 | 4-Methyl-2-Pentanone | 94.5 | 65 | 118 |
| | 0512LCS51 | | 2515752 | Acetone | 90 | 48 | 130 |
| | 0512LCS51 | | 2515752 | Benzene | 110 | 77 | 118 |
| | 0512LCS51 | | 2515752 | Bromobenzene | 108 | 75 | 115 |
| | 0512LCS51 | | 2515752 | Bromochloromethane | 95.5 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Bromodichloromethane | 114 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Bromoform | 97 | 74 | 121 |
| | 0512LCS51 | | 2515752 | Bromomethane | 112 | 42 | 154 |
| | 0512LCS51 | | 2515752 | **Carbon Disulfide** | **110** | **56** | **104** |
| | 0512LCS51 | | 2515752 | Carbon tetrachloride | 116 | 80 | 120 |
| | 0512LCS51 | | 2515752 | Chlorobenzene | 106 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Chloroethane | 122 | 51 | 133 |
| | 0512LCS51 | | 2515752 | Chloroform | 108 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Chloromethane | 90 | 46 | 142 |
| | 0512LCS51 | | 2515752 | Cis-1,2-DCE | 114 | 75 | 115 |
| | 0512LCS51 | | 2515752 | cis-1,3-Dichloropropene | 112 | 76 | 113 |
| | 0512LCS51 | | 2515752 | Dibromochloromethane | 102 | 76 | 116 |
| | 0512LCS51 | | 2515752 | Dibromomethane | 110 | 77 | 117 |
| | 0512LCS51 | | 2515752 | Dichlorodifluoromethane | 120 | 56 | 140 |
| | 0512LCS51 | | 2515752 | Ethylbenzene | 110 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 0512LCS51 | | 2515752 | **Isopropylbenzene** | **114** | **71** | **113** |
| | 0512LCS51 | | 2515752 | m,p-Xylene | 108 | 78 | 118 |
| | 0512LCS51 | | 2515752 | Methyl tert-Butyl Ether | 102 | 58 | 116 |
| | 0512LCS51 | | 2515752 | Methylene chloride | 110 | 71 | 119 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0512LCS51 | WATER | 2515752 | Naphthalene | 101 | 62 | 121 |
| | 0512LCS51 | | 2515752 | n-Butylbenzene | 116 | 76 | 117 |
| | 0512LCS51 | | 2515752 | n-Propylbenzene | 113 | 76 | 116 |
| | 0512LCS51 | | 2515752 | o-Xylene | 107 | 77 | 117 |
| | 0512LCS51 | | 2515752 | p-Isopropyltoluene | 113 | 76 | 113 |
| | 0512LCS51 | | 2515752 | Sec-Butylbenzene | 114 | 80 | 120 |
| | 0512LCS51 | | 2515752 | Styrene | 112 | 77 | 117 |
| | 0512LCS51 | | 2515752 | tert-Butylbenzene | 112 | 76 | 116 |
| | 0512LCS51 | | 2515752 | Tetrachloroethene | 111 | 77 | 117 |
| | 0512LCS51 | | 2515752 | Toluene | 117 | 73 | 120 |
| | 0512LCS51 | | 2515752 | trans-1,2-Dichloroethene | 112 | 80 | 120 |
| | 0512LCS51 | | 2515752 | **trans-1,3-Dichloropropene** | **118** | **72** | **117** |
| | 0512LCS51 | | 2515752 | Trichloroethene | 118 | 78 | 122 |
| | 0512LCS51 | | 2515752 | Trichlorofluoromethane | 120 | 65 | 190 |
| | 0512LCS51 | | 2515752 | Vinyl chloride | 118 | 49 | 136 |
| | 0512LCS51 | | 2515752 | Xylenes, Total | 108 | 77 | 117 |
| | 0512LCS51D | | 2515752 | 1,1,1,2-Tetrachloroethane | 99.5 | 77 | 117 |
| | 0512LCS51D | | 2515752 | 1,1,1-Trichloroethane | 104 | 78 | 118 |
| | 0512LCS51D | | 2515752 | 1,1,2,2-Tetrachloroethane | 85 | 73 | 119 |
| | 0512LCS51D | | 2515752 | 1,1,2-Trichloroethane | 102 | 76 | 116 |
| | 0512LCS51D | | 2515752 | 1,1-Dichloroethene | 99 | 66 | 133 |
| | 0512LCS51D | | 2515752 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 0512LCS51D | | 2515752 | 1,2,3-Trichlorobenzene | 104 | 66 | 123 |
| | 0512LCS51D | | 2515752 | 1,2,3-Trichloropropane | 86 | 84 | 118 |
| | 0512LCS51D | | 2515752 | 1,2,4-Trichlorobenzene | 104 | 73 | 121 |
| | 0512LCS51D | | 2515752 | 1,2,4-Trimethylbenzene | 99.5 | 77 | 120 |
| | 0512LCS51D | | 2515752 | 1,2-Dibromo-3-chloropropane | 81.5 | 65 | 117 |
| | 0512LCS51D | | 2515752 | 1,2-Dibromoethane | 97 | 77 | 117 |
| | 0512LCS51D | | 2515752 | 1,2-Dichlorobenzene | 97.5 | 76 | 116 |
| | 0512LCS51D | | 2515752 | 1,2-Dichloroethane | 99 | 74 | 120 |
| | 0512LCS51D | | 2515752 | 1,2-Dichloropropane | 100 | 76 | 116 |
| | 0512LCS51D | | 2515752 | 1,3,5-Trimethylbenzene | 99 | 77 | 117 |
| | 0512LCS51D | | 2515752 | 1,3-Dichlorobenzene | 98 | 75 | 115 |
| | 0512LCS51D | | 2515752 | 1,3-Dichloropropane | 93.5 | 75 | 115 |
| | 0512LCS51D | | 2515752 | 1,4-Dichlorobenzene | 96.5 | 77 | 117 |
| | 0512LCS51D | | 2515752 | 2,2-Dichloropropane | 98.5 | 72 | 128 |
| | 0512LCS51D | | 2515752 | 2-Butanone | 97.5 | 57 | 120 |
| | 0512LCS51D | | 2515752 | 2-Chlorotoluene | 93 | 76 | 116 |
| | 0512LCS51D | | 2515752 | 2-Hexanone | 92 | 57 | 121 |
| | 0512LCS51D | | 2515752 | 4-Chlorotoluene | 94 | 78 | 118 |
| | 0512LCS51D | | 2515752 | 4-Methyl-2-Pentanone | 94.2 | 65 | 118 |
| | 0512LCS51D | | 2515752 | Acetone | 91.2 | 48 | 130 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0512LCS51D | WATER | 2515752 | Benzene | 98 | 77 | 118 |
| | 0512LCS51D | | 2515752 | Bromobenzene | 90.5 | 75 | 115 |
| | 0512LCS51D | | 2515752 | Bromochloromethane | 94 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Bromodichloromethane | 102 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Bromoform | 94 | 74 | 121 |
| | 0512LCS51D | | 2515752 | Bromomethane | 102 | 42 | 154 |
| | 0512LCS51D | | 2515752 | Carbon Disulfide | 100 | 56 | 104 |
| | 0512LCS51D | | 2515752 | Carbon tetrachloride | 104 | 80 | 120 |
| | 0512LCS51D | | 2515752 | Chlorobenzene | 99 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Chloroethane | 108 | 51 | 133 |
| | 0512LCS51D | | 2515752 | Chloroform | 98 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Chloromethane | 78 | 46 | 142 |
| | 0512LCS51D | | 2515752 | Cis-1,2-DCE | 102 | 75 | 115 |
| | 0512LCS51D | | 2515752 | cis-1,3-Dichloropropene | 100 | 76 | 113 |
| | 0512LCS51D | | 2515752 | Dibromochloromethane | 98 | 76 | 116 |
| | 0512LCS51D | | 2515752 | Dibromomethane | 99.5 | 77 | 117 |
| | 0512LCS51D | | 2515752 | Dichlorodifluoromethane | 112 | 56 | 140 |
| | 0512LCS51D | | 2515752 | Ethylbenzene | 100 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Hexachlorobutadiene | 99 | 73 | 123 |
| | 0512LCS51D | | 2515752 | Isopropylbenzene | 92 | 71 | 113 |
| | 0512LCS51D | | 2515752 | m,p-Xylene | 97.5 | 78 | 118 |
| | 0512LCS51D | | 2515752 | Methyl tert-Butyl Ether | 96 | 58 | 116 |
| | 0512LCS51D | | 2515752 | Methylene chloride | 99.5 | 71 | 119 |
| | 0512LCS51D | | 2515752 | Naphthalene | 103 | 62 | 121 |
| | 0512LCS51D | | 2515752 | n-Butylbenzene | 104 | 76 | 117 |
| | 0512LCS51D | | 2515752 | n-Propylbenzene | 94 | 76 | 116 |
| | 0512LCS51D | | 2515752 | o-Xylene | 100 | 77 | 117 |
| | 0512LCS51D | | 2515752 | p-Isopropyltoluene | 102 | 76 | 113 |
| | 0512LCS51D | | 2515752 | Sec-Butylbenzene | 102 | 80 | 120 |
| | 0512LCS51D | | 2515752 | Styrene | 102 | 77 | 117 |
| | 0512LCS51D | | 2515752 | tert-Butylbenzene | 98.5 | 76 | 116 |
| | 0512LCS51D | | 2515752 | Tetrachloroethene | 101 | 77 | 117 |
| | 0512LCS51D | | 2515752 | Toluene | 105 | 73 | 120 |
| | 0512LCS51D | | 2515752 | trans-1,2-Dichloroethene | 102 | 80 | 120 |
| | 0512LCS51D | | 2515752 | trans-1,3-Dichloropropene | 100 | 72 | 117 |
| | 0512LCS51D | | 2515752 | Trichloroethene | 104 | 78 | 122 |
| | 0512LCS51D | | 2515752 | Trichlorofluoromethane | 108 | 65 | 190 |
| | 0512LCS51D | | 2515752 | Vinyl chloride | 108 | 49 | 136 |
| | 0512LCS51D | | 2515752 | Xylenes, Total | 98.3 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | 1,1,1,2-Tetrachloroethane | 96 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | 1,1,1,2-Tetrachloroethane | 96 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | 1,1,1,2-Tetrachloroethane | 96 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31 | WATER | 2515808 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | 1,1,2,2-Tetrachloroethane | 97.5 | 73 | 119 |
| | 051310LCSA31 | | 2515808 | 1,1,2,2-Tetrachloroethane | 97.5 | 73 | 119 |
| | 051310LCSA31 | | 2515786 | 1,1,2,2-Tetrachloroethane | 97.5 | 73 | 119 |
| | 051310LCSA31 | | 2515808 | 1,1,2-Trichloroethane | 97.5 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | 1,1,2-Trichloroethane | 97.5 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | 1,1,2-Trichloroethane | 97.5 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | 1,1-Dichloroethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | 1,1-Dichloroethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | 1,1-Dichloroethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | 1,1-Dichloroethene | 116 | 66 | 133 |
| | 051310LCSA31 | | 2515807 | 1,1-Dichloroethene | 116 | 66 | 133 |
| | 051310LCSA31 | | 2515786 | 1,1-Dichloroethene | 116 | 66 | 133 |
| | 051310LCSA31 | | 2515808 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 051310LCSA31 | | 2515807 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 051310LCSA31 | | 2515786 | 1,1-Dichloropropene | 104 | 75 | 115 |
| | 051310LCSA31 | | 2515808 | 1,2,3-Trichlorobenzene | 93 | 66 | 123 |
| | 051310LCSA31 | | 2515786 | 1,2,3-Trichlorobenzene | 93 | 66 | 123 |
| | 051310LCSA31 | | 2515807 | 1,2,3-Trichlorobenzene | 93 | 66 | 123 |
| | 051310LCSA31 | | 2515808 | 1,2,3-Trichloropropane | 93.5 | 84 | 118 |
| | 051310LCSA31 | | 2515807 | 1,2,3-Trichloropropane | 93.5 | 84 | 118 |
| | 051310LCSA31 | | 2515786 | 1,2,3-Trichloropropane | 93.5 | 84 | 118 |
| | 051310LCSA31 | | 2515786 | 1,2,4-Trichlorobenzene | 92 | 73 | 121 |
| | 051310LCSA31 | | 2515807 | 1,2,4-Trichlorobenzene | 92 | 73 | 121 |
| | 051310LCSA31 | | 2515808 | 1,2,4-Trichlorobenzene | 92 | 73 | 121 |
| | 051310LCSA31 | | 2515807 | 1,2,4-Trimethylbenzene | 102 | 77 | 120 |
| | 051310LCSA31 | | 2515786 | 1,2,4-Trimethylbenzene | 102 | 77 | 120 |
| | 051310LCSA31 | | 2515808 | 1,2,4-Trimethylbenzene | 102 | 77 | 120 |
| | 051310LCSA31 | | 2515807 | 1,2-Dibromo-3-chloropropane | 82.5 | 65 | 117 |
| | 051310LCSA31 | | 2515786 | 1,2-Dibromo-3-chloropropane | 82.5 | 65 | 117 |
| | 051310LCSA31 | | 2515808 | 1,2-Dibromo-3-chloropropane | 82.5 | 65 | 117 |
| | 051310LCSA31 | | 2515808 | 1,2-Dibromoethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | 1,2-Dibromoethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | 1,2-Dibromoethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | 1,2-Dichlorobenzene | 96 | 76 | 116 |
| | 051310LCSA31 | | 2515808 | 1,2-Dichlorobenzene | 96 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | 1,2-Dichlorobenzene | 96 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 051310LCSA31 | | 2515808 | 1,2-Dichloroethane | 105 | 74 | 120 |
| | 051310LCSA31 | | 2515786 | 1,2-Dichloroethane | 105 | 74 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31 | WATER | 2515786 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051310LCSA31 | | 2515808 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | 1,3,5-Trimethylbenzene | 102 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | 1,3-Dichlorobenzene | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515808 | 1,3-Dichlorobenzene | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515807 | 1,3-Dichlorobenzene | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515786 | 1,3-Dichloropropane | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515807 | 1,3-Dichloropropane | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515808 | 1,3-Dichloropropane | 100 | 75 | 115 |
| | 051310LCSA31 | | 2515786 | 1,4-Dichlorobenzene | 95.5 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | 1,4-Dichlorobenzene | 95.5 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | 1,4-Dichlorobenzene | 95.5 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | 2,2-Dichloropropane | 94 | 72 | 128 |
| | 051310LCSA31 | | 2515808 | 2,2-Dichloropropane | 94 | 72 | 128 |
| | 051310LCSA31 | | 2515807 | 2,2-Dichloropropane | 94 | 72 | 128 |
| | 051310LCSA31 | | 2515786 | 2-Butanone | 91 | 57 | 120 |
| | 051310LCSA31 | | 2515808 | 2-Butanone | 91 | 57 | 120 |
| | 051310LCSA31 | | 2515807 | 2-Butanone | 91 | 57 | 120 |
| | 051310LCSA31 | | 2515807 | 2-Chlorotoluene | 103 | 76 | 116 |
| | 051310LCSA31 | | 2515808 | 2-Chlorotoluene | 103 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | 2-Chlorotoluene | 103 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | 2-Hexanone | 87 | 57 | 121 |
| | 051310LCSA31 | | 2515808 | 2-Hexanone | 87 | 57 | 121 |
| | 051310LCSA31 | | 2515807 | 2-Hexanone | 87 | 57 | 121 |
| | 051310LCSA31 | | 2515808 | 4-Chlorotoluene | 103 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | 4-Chlorotoluene | 103 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | 4-Chlorotoluene | 103 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | 4-Methyl-2-Pentanone | 91.5 | 65 | 118 |
| | 051310LCSA31 | | 2515786 | 4-Methyl-2-Pentanone | 91.5 | 65 | 118 |
| | 051310LCSA31 | | 2515808 | 4-Methyl-2-Pentanone | 91.5 | 65 | 118 |
| | 051310LCSA31 | | 2515807 | Acetone | 102 | 48 | 130 |
| | 051310LCSA31 | | 2515808 | Acetone | 102 | 48 | 130 |
| | 051310LCSA31 | | 2515786 | Acetone | 102 | 48 | 130 |
| | 051310LCSA31 | | 2515786 | Benzene | 100 | 77 | 118 |
| | 051310LCSA31 | | 2515807 | Benzene | 100 | 77 | 118 |
| | 051310LCSA31 | | 2515808 | Benzene | 100 | 77 | 118 |
| | 051310LCSA31 | | 2515808 | Bromobenzene | 96.5 | 75 | 115 |
| | 051310LCSA31 | | 2515786 | Bromobenzene | 96.5 | 75 | 115 |
| | 051310LCSA31 | | 2515807 | Bromobenzene | 96.5 | 75 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31 | WATER | 2515808 | Bromochloromethane | 106 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | Bromochloromethane | 106 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | Bromochloromethane | 106 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | Bromodichloromethane | 100 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Bromodichloromethane | 100 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | Bromodichloromethane | 100 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | Bromoform | 79.5 | 74 | 121 |
| | 051310LCSA31 | | 2515808 | Bromoform | 79.5 | 74 | 121 |
| | 051310LCSA31 | | 2515807 | Bromoform | 79.5 | 74 | 121 |
| | 051310LCSA31 | | 2515786 | Bromomethane | 106 | 42 | 154 |
| | 051310LCSA31 | | 2515808 | Bromomethane | 106 | 42 | 154 |
| | 051310LCSA31 | | 2515807 | Bromomethane | 106 | 42 | 154 |
| | 051310LCSA31 | | 2515808 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 051310LCSA31 | | 2515807 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 051310LCSA31 | | 2515786 | **Carbon Disulfide** | **114** | **56** | **104** |
| | 051310LCSA31 | | 2515808 | Carbon tetrachloride | 102 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | Carbon tetrachloride | 102 | 80 | 120 |
| | 051310LCSA31 | | 2515807 | Carbon tetrachloride | 102 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | Chlorobenzene | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Chlorobenzene | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | Chlorobenzene | 102 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Chloroethane | 104 | 51 | 133 |
| | 051310LCSA31 | | 2515786 | Chloroethane | 104 | 51 | 133 |
| | 051310LCSA31 | | 2515807 | Chloroethane | 104 | 51 | 133 |
| | 051310LCSA31 | | 2515807 | Chloroform | 98 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Chloroform | 98 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | Chloroform | 98 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | Chloromethane | 95 | 46 | 142 |
| | 051310LCSA31 | | 2515786 | Chloromethane | 95 | 46 | 142 |
| | 051310LCSA31 | | 2515808 | Chloromethane | 95 | 46 | 142 |
| | 051310LCSA31 | | 2515807 | Cis-1,2-DCE | 97.5 | 75 | 115 |
| | 051310LCSA31 | | 2515808 | Cis-1,2-DCE | 97.5 | 75 | 115 |
| | 051310LCSA31 | | 2515786 | Cis-1,2-DCE | 97.5 | 75 | 115 |
| | 051310LCSA31 | | 2515807 | cis-1,3-Dichloropropene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515808 | cis-1,3-Dichloropropene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515786 | cis-1,3-Dichloropropene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515808 | Dibromochloromethane | 87.5 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | Dibromochloromethane | 87.5 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | Dibromochloromethane | 87.5 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | Dibromomethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | Dibromomethane | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | Dibromomethane | 99 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31 | WATER | 2515808 | Dichlorodifluoromethane | 93 | 56 | 140 |
| | 051310LCSA31 | | 2515807 | Dichlorodifluoromethane | 93 | 56 | 140 |
| | 051310LCSA31 | | 2515786 | Dichlorodifluoromethane | 93 | 56 | 140 |
| | 051310LCSA31 | | 2515786 | Ethylbenzene | 99 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Ethylbenzene | 99 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | Ethylbenzene | 99 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 051310LCSA31 | | 2515786 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 051310LCSA31 | | 2515807 | Hexachlorobutadiene | 106 | 73 | 123 |
| | 051310LCSA31 | | 2515807 | Isopropylbenzene | 98 | 71 | 113 |
| | 051310LCSA31 | | 2515786 | Isopropylbenzene | 98 | 71 | 113 |
| | 051310LCSA31 | | 2515808 | Isopropylbenzene | 98 | 71 | 113 |
| | 051310LCSA31 | | 2515808 | m,p-Xylene | 98.5 | 78 | 118 |
| | 051310LCSA31 | | 2515786 | m,p-Xylene | 98.5 | 78 | 118 |
| | 051310LCSA31 | | 2515807 | m,p-Xylene | 98.5 | 78 | 118 |
| | 051310LCSA31 | | 2515808 | Methyl tert-Butyl Ether | 91 | 58 | 116 |
| | 051310LCSA31 | | 2515807 | Methyl tert-Butyl Ether | 91 | 58 | 116 |
| | 051310LCSA31 | | 2515786 | Methyl tert-Butyl Ether | 91 | 58 | 116 |
| | 051310LCSA31 | | 2515786 | Methylene chloride | 99 | 71 | 119 |
| | 051310LCSA31 | | 2515808 | Methylene chloride | 99 | 71 | 119 |
| | 051310LCSA31 | | 2515807 | Methylene chloride | 99 | 71 | 119 |
| | 051310LCSA31 | | 2515786 | Naphthalene | 86.5 | 62 | 121 |
| | 051310LCSA31 | | 2515807 | Naphthalene | 86.5 | 62 | 121 |
| | 051310LCSA31 | | 2515808 | Naphthalene | 86.5 | 62 | 121 |
| | 051310LCSA31 | | 2515786 | n-Butylbenzene | 104 | 76 | 117 |
| | 051310LCSA31 | | 2515807 | n-Butylbenzene | 104 | 76 | 117 |
| | 051310LCSA31 | | 2515808 | n-Butylbenzene | 104 | 76 | 117 |
| | 051310LCSA31 | | 2515808 | n-Propylbenzene | 104 | 76 | 116 |
| | 051310LCSA31 | | 2515807 | n-Propylbenzene | 104 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | n-Propylbenzene | 104 | 76 | 116 |
| | 051310LCSA31 | | 2515808 | o-Xylene | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | o-Xylene | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | o-Xylene | 99 | 77 | 117 |
| | 051310LCSA31 | | 2515786 | p-Isopropyltoluene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515808 | p-Isopropyltoluene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515807 | p-Isopropyltoluene | 100 | 76 | 113 |
| | 051310LCSA31 | | 2515807 | Sec-Butylbenzene | 100 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | Sec-Butylbenzene | 100 | 80 | 120 |
| | 051310LCSA31 | | 2515808 | Sec-Butylbenzene | 100 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | Styrene | 103 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | Styrene | 103 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | Styrene | 103 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31 | WATER | 2515807 | tert-Butylbenzene | 97 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | tert-Butylbenzene | 97 | 76 | 116 |
| | 051310LCSA31 | | 2515808 | tert-Butylbenzene | 97 | 76 | 116 |
| | 051310LCSA31 | | 2515786 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | Tetrachloroethene | 99.5 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | Toluene | 100 | 73 | 120 |
| | 051310LCSA31 | | 2515808 | Toluene | 100 | 73 | 120 |
| | 051310LCSA31 | | 2515786 | Toluene | 100 | 73 | 120 |
| | 051310LCSA31 | | 2515807 | trans-1,2-Dichloroethene | 101 | 80 | 120 |
| | 051310LCSA31 | | 2515808 | trans-1,2-Dichloroethene | 101 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | trans-1,2-Dichloroethene | 101 | 80 | 120 |
| | 051310LCSA31 | | 2515786 | trans-1,3-Dichloropropene | 89.5 | 72 | 117 |
| | 051310LCSA31 | | 2515807 | trans-1,3-Dichloropropene | 89.5 | 72 | 117 |
| | 051310LCSA31 | | 2515808 | trans-1,3-Dichloropropene | 89.5 | 72 | 117 |
| | 051310LCSA31 | | 2515808 | Trichloroethene | 96.5 | 78 | 122 |
| | 051310LCSA31 | | 2515807 | Trichloroethene | 96.5 | 78 | 122 |
| | 051310LCSA31 | | 2515786 | Trichloroethene | 96.5 | 78 | 122 |
| | 051310LCSA31 | | 2515807 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 051310LCSA31 | | 2515786 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 051310LCSA31 | | 2515808 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 051310LCSA31 | | 2515786 | Vinyl chloride | 94 | 49 | 136 |
| | 051310LCSA31 | | 2515807 | Vinyl chloride | 94 | 49 | 136 |
| | 051310LCSA31 | | 2515808 | Vinyl chloride | 94 | 49 | 136 |
| | 051310LCSA31 | | 2515786 | Xylenes, Total | 98.7 | 77 | 117 |
| | 051310LCSA31 | | 2515808 | Xylenes, Total | 98.7 | 77 | 117 |
| | 051310LCSA31 | | 2515807 | Xylenes, Total | 98.7 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | 1,1,1,2-Tetrachloroethane | 86.5 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,1,1,2-Tetrachloroethane | 86.5 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | 1,1,1,2-Tetrachloroethane | 86.5 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,1,1-Trichloroethane | 97.5 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | 1,1,1-Trichloroethane | 97.5 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | 1,1,1-Trichloroethane | 97.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 051310LCSA31D | | 2515807 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 051310LCSA31D | | 2515808 | 1,1,2,2-Tetrachloroethane | 93 | 73 | 119 |
| | 051310LCSA31D | | 2515786 | 1,1,2-Trichloroethane | 100 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | 1,1,2-Trichloroethane | 100 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | 1,1,2-Trichloroethane | 100 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | 1,1-Dichloroethane | 97 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | 1,1-Dichloroethane | 97 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,1-Dichloroethane | 97 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31D | WATER | 2515786 | 1,1-Dichloroethene | 107 | 66 | 133 |
| | 051310LCSA31D | | 2515807 | 1,1-Dichloroethene | 107 | 66 | 133 |
| | 051310LCSA31D | | 2515808 | 1,1-Dichloroethene | 107 | 66 | 133 |
| | 051310LCSA31D | | 2515786 | 1,1-Dichloropropene | 97.5 | 75 | 115 |
| | 051310LCSA31D | | 2515807 | 1,1-Dichloropropene | 97.5 | 75 | 115 |
| | 051310LCSA31D | | 2515808 | 1,1-Dichloropropene | 97.5 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | 1,2,3-Trichlorobenzene | 90 | 66 | 123 |
| | 051310LCSA31D | | 2515808 | 1,2,3-Trichlorobenzene | 90 | 66 | 123 |
| | 051310LCSA31D | | 2515807 | 1,2,3-Trichlorobenzene | 90 | 66 | 123 |
| | 051310LCSA31D | | 2515807 | 1,2,3-Trichloropropane | 92 | 84 | 118 |
| | 051310LCSA31D | | 2515808 | 1,2,3-Trichloropropane | 92 | 84 | 118 |
| | 051310LCSA31D | | 2515786 | 1,2,3-Trichloropropane | 92 | 84 | 118 |
| | 051310LCSA31D | | 2515786 | 1,2,4-Trichlorobenzene | 87.5 | 73 | 121 |
| | 051310LCSA31D | | 2515808 | 1,2,4-Trichlorobenzene | 87.5 | 73 | 121 |
| | 051310LCSA31D | | 2515807 | 1,2,4-Trichlorobenzene | 87.5 | 73 | 121 |
| | 051310LCSA31D | | 2515807 | 1,2,4-Trimethylbenzene | 93.5 | 77 | 120 |
| | 051310LCSA31D | | 2515808 | 1,2,4-Trimethylbenzene | 93.5 | 77 | 120 |
| | 051310LCSA31D | | 2515786 | 1,2,4-Trimethylbenzene | 93.5 | 77 | 120 |
| | 051310LCSA31D | | 2515808 | 1,2-Dibromo-3-chloropropane | 79 | 65 | 117 |
| | 051310LCSA31D | | 2515807 | 1,2-Dibromo-3-chloropropane | 79 | 65 | 117 |
| | 051310LCSA31D | | 2515786 | 1,2-Dibromo-3-chloropropane | 79 | 65 | 117 |
| | 051310LCSA31D | | 2515808 | 1,2-Dibromoethane | 91.5 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,2-Dibromoethane | 91.5 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | 1,2-Dibromoethane | 91.5 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | 1,2-Dichlorobenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515786 | 1,2-Dichlorobenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | 1,2-Dichlorobenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | 1,2-Dichloroethane | 102 | 74 | 120 |
| | 051310LCSA31D | | 2515807 | 1,2-Dichloroethane | 102 | 74 | 120 |
| | 051310LCSA31D | | 2515786 | 1,2-Dichloroethane | 102 | 74 | 120 |
| | 051310LCSA31D | | 2515807 | 1,2-Dichloropropane | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515786 | 1,2-Dichloropropane | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | 1,2-Dichloropropane | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | 1,3,5-Trimethylbenzene | 94 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,3,5-Trimethylbenzene | 94 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | 1,3,5-Trimethylbenzene | 94 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | 1,3-Dichlorobenzene | 92 | 75 | 115 |
| | 051310LCSA31D | | 2515807 | 1,3-Dichlorobenzene | 92 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | 1,3-Dichlorobenzene | 92 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | 1,3-Dichloropropane | 94 | 75 | 115 |
| | 051310LCSA31D | | 2515808 | 1,3-Dichloropropane | 94 | 75 | 115 |
| | 051310LCSA31D | | 2515807 | 1,3-Dichloropropane | 94 | 75 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31D | WATER | 2515807 | 1,4-Dichlorobenzene | 89 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | 1,4-Dichlorobenzene | 89 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | 1,4-Dichlorobenzene | 89 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | 2,2-Dichloropropane | 90 | 72 | 128 |
| | 051310LCSA31D | | 2515807 | 2,2-Dichloropropane | 90 | 72 | 128 |
| | 051310LCSA31D | | 2515786 | 2,2-Dichloropropane | 90 | 72 | 128 |
| | 051310LCSA31D | | 2515786 | 2-Butanone | 92.5 | 57 | 120 |
| | 051310LCSA31D | | 2515808 | 2-Butanone | 92.5 | 57 | 120 |
| | 051310LCSA31D | | 2515807 | 2-Butanone | 92.5 | 57 | 120 |
| | 051310LCSA31D | | 2515808 | 2-Chlorotoluene | 95 | 76 | 116 |
| | 051310LCSA31D | | 2515786 | 2-Chlorotoluene | 95 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | 2-Chlorotoluene | 95 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | 2-Hexanone | 88 | 57 | 121 |
| | 051310LCSA31D | | 2515786 | 2-Hexanone | 88 | 57 | 121 |
| | 051310LCSA31D | | 2515808 | 2-Hexanone | 88 | 57 | 121 |
| | 051310LCSA31D | | 2515808 | 4-Chlorotoluene | 94.5 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | 4-Chlorotoluene | 94.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | 4-Chlorotoluene | 94.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | 4-Methyl-2-Pentanone | 91.2 | 65 | 118 |
| | 051310LCSA31D | | 2515808 | 4-Methyl-2-Pentanone | 91.2 | 65 | 118 |
| | 051310LCSA31D | | 2515807 | 4-Methyl-2-Pentanone | 91.2 | 65 | 118 |
| | 051310LCSA31D | | 2515786 | Acetone | 113 | 48 | 130 |
| | 051310LCSA31D | | 2515808 | Acetone | 113 | 48 | 130 |
| | 051310LCSA31D | | 2515807 | Acetone | 113 | 48 | 130 |
| | 051310LCSA31D | | 2515808 | Benzene | 94 | 77 | 118 |
| | 051310LCSA31D | | 2515786 | Benzene | 94 | 77 | 118 |
| | 051310LCSA31D | | 2515807 | Benzene | 94 | 77 | 118 |
| | 051310LCSA31D | | 2515807 | Bromobenzene | 89.5 | 75 | 115 |
| | 051310LCSA31D | | 2515808 | Bromobenzene | 89.5 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | Bromobenzene | 89.5 | 75 | 115 |
| | 051310LCSA31D | | 2515807 | Bromochloromethane | 100 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | Bromochloromethane | 100 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Bromochloromethane | 100 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | Bromodichloromethane | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | Bromodichloromethane | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Bromodichloromethane | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | Bromoform | 76 | 74 | 121 |
| | 051310LCSA31D | | 2515786 | Bromoform | 76 | 74 | 121 |
| | 051310LCSA31D | | 2515807 | Bromoform | 76 | 74 | 121 |
| | 051310LCSA31D | | 2515808 | Bromomethane | 102 | 42 | 154 |
| | 051310LCSA31D | | 2515807 | Bromomethane | 102 | 42 | 154 |
| | 051310LCSA31D | | 2515786 | Bromomethane | 102 | 42 | 154 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31D | WATER | 2515807 | Carbon Disulfide | 104 | 56 | 104 |
| | 051310LCSA31D | | 2515808 | Carbon Disulfide | 104 | 56 | 104 |
| | 051310LCSA31D | | 2515786 | Carbon Disulfide | 104 | 56 | 104 |
| | 051310LCSA31D | | 2515808 | Carbon tetrachloride | 93.5 | 80 | 120 |
| | 051310LCSA31D | | 2515807 | Carbon tetrachloride | 93.5 | 80 | 120 |
| | 051310LCSA31D | | 2515786 | Carbon tetrachloride | 93.5 | 80 | 120 |
| | 051310LCSA31D | | 2515808 | Chlorobenzene | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Chlorobenzene | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | Chlorobenzene | 93.5 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Chloroethane | 94 | 51 | 133 |
| | 051310LCSA31D | | 2515808 | Chloroethane | 94 | 51 | 133 |
| | 051310LCSA31D | | 2515807 | Chloroethane | 94 | 51 | 133 |
| | 051310LCSA31D | | 2515808 | Chloroform | 93 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Chloroform | 93 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | Chloroform | 93 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Chloromethane | 85 | 46 | 142 |
| | 051310LCSA31D | | 2515807 | Chloromethane | 85 | 46 | 142 |
| | 051310LCSA31D | | 2515808 | Chloromethane | 85 | 46 | 142 |
| | 051310LCSA31D | | 2515807 | Cis-1,2-DCE | 91.5 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | Cis-1,2-DCE | 91.5 | 75 | 115 |
| | 051310LCSA31D | | 2515808 | Cis-1,2-DCE | 91.5 | 75 | 115 |
| | 051310LCSA31D | | 2515786 | cis-1,3-Dichloropropene | 95 | 76 | 113 |
| | 051310LCSA31D | | 2515807 | cis-1,3-Dichloropropene | 95 | 76 | 113 |
| | 051310LCSA31D | | 2515808 | cis-1,3-Dichloropropene | 95 | 76 | 113 |
| | 051310LCSA31D | | 2515786 | Dibromochloromethane | 80.5 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | Dibromochloromethane | 80.5 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | Dibromochloromethane | 80.5 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | Dibromomethane | 98.5 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | Dibromomethane | 98.5 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | Dibromomethane | 98.5 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | Dichlorodifluoromethane | 89.5 | 56 | 140 |
| | 051310LCSA31D | | 2515808 | Dichlorodifluoromethane | 89.5 | 56 | 140 |
| | 051310LCSA31D | | 2515786 | Dichlorodifluoromethane | 89.5 | 56 | 140 |
| | 051310LCSA31D | | 2515786 | Ethylbenzene | 90 | 78 | 118 |
| | 051310LCSA31D | | 2515807 | Ethylbenzene | 90 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | Ethylbenzene | 90 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Hexachlorobutadiene | 97.5 | 73 | 123 |
| | 051310LCSA31D | | 2515808 | Hexachlorobutadiene | 97.5 | 73 | 123 |
| | 051310LCSA31D | | 2515807 | Hexachlorobutadiene | 97.5 | 73 | 123 |
| | 051310LCSA31D | | 2515807 | Isopropylbenzene | 90.5 | 71 | 113 |
| | 051310LCSA31D | | 2515786 | Isopropylbenzene | 90.5 | 71 | 113 |
| | 051310LCSA31D | | 2515808 | Isopropylbenzene | 90.5 | 71 | 113 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31D | WATER | 2515807 | m,p-Xylene | 91 | 78 | 118 |
| | 051310LCSA31D | | 2515808 | m,p-Xylene | 91 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | m,p-Xylene | 91 | 78 | 118 |
| | 051310LCSA31D | | 2515786 | Methyl tert-Butyl Ether | 90 | 58 | 116 |
| | 051310LCSA31D | | 2515808 | Methyl tert-Butyl Ether | 90 | 58 | 116 |
| | 051310LCSA31D | | 2515807 | Methyl tert-Butyl Ether | 90 | 58 | 116 |
| | 051310LCSA31D | | 2515808 | Methylene chloride | 92 | 71 | 119 |
| | 051310LCSA31D | | 2515786 | Methylene chloride | 92 | 71 | 119 |
| | 051310LCSA31D | | 2515807 | Methylene chloride | 92 | 71 | 119 |
| | 051310LCSA31D | | 2515786 | Naphthalene | 84.5 | 62 | 121 |
| | 051310LCSA31D | | 2515807 | Naphthalene | 84.5 | 62 | 121 |
| | 051310LCSA31D | | 2515808 | Naphthalene | 84.5 | 62 | 121 |
| | 051310LCSA31D | | 2515808 | n-Butylbenzene | 97 | 76 | 117 |
| | 051310LCSA31D | | 2515786 | n-Butylbenzene | 97 | 76 | 117 |
| | 051310LCSA31D | | 2515807 | n-Butylbenzene | 97 | 76 | 117 |
| | 051310LCSA31D | | 2515808 | n-Propylbenzene | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | n-Propylbenzene | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515786 | n-Propylbenzene | 96 | 76 | 116 |
| | 051310LCSA31D | | 2515808 | o-Xylene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | o-Xylene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | o-Xylene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | p-Isopropyltoluene | 94.5 | 76 | 113 |
| | 051310LCSA31D | | 2515807 | p-Isopropyltoluene | 94.5 | 76 | 113 |
| | 051310LCSA31D | | 2515786 | p-Isopropyltoluene | 94.5 | 76 | 113 |
| | 051310LCSA31D | | 2515808 | Sec-Butylbenzene | 91.5 | 80 | 120 |
| | 051310LCSA31D | | 2515807 | Sec-Butylbenzene | 91.5 | 80 | 120 |
| | 051310LCSA31D | | 2515786 | Sec-Butylbenzene | 91.5 | 80 | 120 |
| | 051310LCSA31D | | 2515807 | Styrene | 96.5 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | Styrene | 96.5 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | Styrene | 96.5 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | tert-Butylbenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515786 | tert-Butylbenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | tert-Butylbenzene | 91 | 76 | 116 |
| | 051310LCSA31D | | 2515807 | Tetrachloroethene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | Tetrachloroethene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | Tetrachloroethene | 91 | 77 | 117 |
| | 051310LCSA31D | | 2515807 | Toluene | 94.5 | 73 | 120 |
| | 051310LCSA31D | | 2515808 | Toluene | 94.5 | 73 | 120 |
| | 051310LCSA31D | | 2515786 | Toluene | 94.5 | 73 | 120 |
| | 051310LCSA31D | | 2515808 | trans-1,2-Dichloroethene | 94 | 80 | 120 |
| | 051310LCSA31D | | 2515807 | trans-1,2-Dichloroethene | 94 | 80 | 120 |
| | 051310LCSA31D | | 2515786 | trans-1,2-Dichloroethene | 94 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 051310LCSA31D | WATER | 2515808 | trans-1,3-Dichloropropene | 88 | 72 | 117 |
| | 051310LCSA31D | | 2515786 | trans-1,3-Dichloropropene | 88 | 72 | 117 |
| | 051310LCSA31D | | 2515807 | trans-1,3-Dichloropropene | 88 | 72 | 117 |
| | 051310LCSA31D | | 2515808 | Trichloroethene | 89 | 78 | 122 |
| | 051310LCSA31D | | 2515807 | Trichloroethene | 89 | 78 | 122 |
| | 051310LCSA31D | | 2515786 | Trichloroethene | 89 | 78 | 122 |
| | 051310LCSA31D | | 2515786 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 051310LCSA31D | | 2515808 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 051310LCSA31D | | 2515807 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 051310LCSA31D | | 2515807 | Vinyl chloride | 90.5 | 49 | 136 |
| | 051310LCSA31D | | 2515808 | Vinyl chloride | 90.5 | 49 | 136 |
| | 051310LCSA31D | | 2515786 | Vinyl chloride | 90.5 | 49 | 136 |
| | 051310LCSA31D | | 2515807 | Xylenes, Total | 90.8 | 77 | 117 |
| | 051310LCSA31D | | 2515786 | Xylenes, Total | 90.8 | 77 | 117 |
| | 051310LCSA31D | | 2515808 | Xylenes, Total | 90.8 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,1,1,2-Tetrachloroethane | 94.5 | 77 | 117 |
| | 0619LCS51 | | 2516259 | 1,1,1,2-Tetrachloroethane | 94.5 | 77 | 117 |
| | 0619LCS51 | | 2516259 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 0619LCS51 | | 2516238 | 1,1,1-Trichloroethane | 102 | 78 | 118 |
| | 0619LCS51 | | 2516238 | 1,1,2,2-Tetrachloroethane | 79.5 | 73 | 119 |
| | 0619LCS51 | | 2516259 | 1,1,2,2-Tetrachloroethane | 79.5 | 73 | 119 |
| | 0619LCS51 | | 2516238 | 1,1,2-Trichloroethane | 86 | 76 | 116 |
| | 0619LCS51 | | 2516259 | 1,1,2-Trichloroethane | 86 | 76 | 116 |
| | 0619LCS51 | | 2516259 | 1,1-Dichloroethane | 96 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,1-Dichloroethane | 96 | 77 | 117 |
| | 0619LCS51 | | 2516259 | 1,1-Dichloroethene | 99.5 | 66 | 133 |
| | 0619LCS51 | | 2516238 | 1,1-Dichloroethene | 99.5 | 66 | 133 |
| | 0619LCS51 | | 2516238 | 1,1-Dichloropropene | 99 | 75 | 115 |
| | 0619LCS51 | | 2516259 | 1,1-Dichloropropene | 99 | 75 | 115 |
| | 0619LCS51 | | 2516259 | 1,2,3-Trichlorobenzene | 93 | 66 | 123 |
| | 0619LCS51 | | 2516238 | 1,2,3-Trichlorobenzene | 93 | 66 | 123 |
| | 0619LCS51 | | 2516238 | **1,2,3-Trichloropropane** | **82** | **84** | **118** |
| | 0619LCS51 | | 2516259 | **1,2,3-Trichloropropane** | **82** | **84** | **118** |
| | 0619LCS51 | | 2516238 | 1,2,4-Trichlorobenzene | 95.5 | 73 | 121 |
| | 0619LCS51 | | 2516259 | 1,2,4-Trichlorobenzene | 95.5 | 73 | 121 |
| | 0619LCS51 | | 2516259 | 1,2,4-Trimethylbenzene | 98 | 77 | 120 |
| | 0619LCS51 | | 2516238 | 1,2,4-Trimethylbenzene | 98 | 77 | 120 |
| | 0619LCS51 | | 2516259 | 1,2-Dibromo-3-chloropropane | 79.5 | 65 | 117 |
| | 0619LCS51 | | 2516238 | 1,2-Dibromo-3-chloropropane | 79.5 | 65 | 117 |
| | 0619LCS51 | | 2516259 | 1,2-Dibromoethane | 86.5 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,2-Dibromoethane | 86.5 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,2-Dichlorobenzene | 93 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51 | WATER | 2516259 | 1,2-Dichlorobenzene | 93 | 76 | 116 |
| | 0619LCS51 | | 2516238 | 1,2-Dichloroethane | 88 | 74 | 120 |
| | 0619LCS51 | | 2516259 | 1,2-Dichloroethane | 88 | 74 | 120 |
| | 0619LCS51 | | 2516259 | 1,2-Dichloropropane | 92 | 76 | 116 |
| | 0619LCS51 | | 2516238 | 1,2-Dichloropropane | 92 | 76 | 116 |
| | 0619LCS51 | | 2516259 | 1,3,5-Trimethylbenzene | 97.5 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,3,5-Trimethylbenzene | 97.5 | 77 | 117 |
| | 0619LCS51 | | 2516259 | 1,3-Dichlorobenzene | 95.5 | 75 | 115 |
| | 0619LCS51 | | 2516238 | 1,3-Dichlorobenzene | 95.5 | 75 | 115 |
| | 0619LCS51 | | 2516238 | 1,3-Dichloropropane | 87.5 | 75 | 115 |
| | 0619LCS51 | | 2516259 | 1,3-Dichloropropane | 87.5 | 75 | 115 |
| | 0619LCS51 | | 2516259 | 1,4-Dichlorobenzene | 92.5 | 77 | 117 |
| | 0619LCS51 | | 2516238 | 1,4-Dichlorobenzene | 92.5 | 77 | 117 |
| | 0619LCS51 | | 2516259 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0619LCS51 | | 2516238 | 2,2-Dichloropropane | 107 | 72 | 128 |
| | 0619LCS51 | | 2516238 | 2-Butanone | 79.5 | 57 | 120 |
| | 0619LCS51 | | 2516259 | 2-Butanone | 79.5 | 57 | 120 |
| | 0619LCS51 | | 2516259 | 2-Chlorotoluene | 98 | 76 | 116 |
| | 0619LCS51 | | 2516238 | 2-Chlorotoluene | 98 | 76 | 116 |
| | 0619LCS51 | | 2516238 | 2-Hexanone | 75.5 | 57 | 121 |
| | 0619LCS51 | | 2516259 | 2-Hexanone | 75.5 | 57 | 121 |
| | 0619LCS51 | | 2516238 | 4-Chlorotoluene | 98 | 78 | 118 |
| | 0619LCS51 | | 2516259 | 4-Chlorotoluene | 98 | 78 | 118 |
| | 0619LCS51 | | 2516238 | 4-Methyl-2-Pentanone | 75 | 65 | 118 |
| | 0619LCS51 | | 2516259 | 4-Methyl-2-Pentanone | 75 | 65 | 118 |
| | 0619LCS51 | | 2516238 | Acetone | 81 | 48 | 130 |
| | 0619LCS51 | | 2516259 | Acetone | 81 | 48 | 130 |
| | 0619LCS51 | | 2516238 | Benzene | 95 | 77 | 118 |
| | 0619LCS51 | | 2516259 | Benzene | 95 | 77 | 118 |
| | 0619LCS51 | | 2516259 | Bromobenzene | 96.5 | 75 | 115 |
| | 0619LCS51 | | 2516238 | Bromobenzene | 96.5 | 75 | 115 |
| | 0619LCS51 | | 2516259 | Bromochloromethane | 92.5 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Bromochloromethane | 92.5 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Bromodichloromethane | 95.5 | 78 | 118 |
| | 0619LCS51 | | 2516259 | Bromodichloromethane | 95.5 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Bromoform | 86.5 | 74 | 121 |
| | 0619LCS51 | | 2516259 | Bromoform | 86.5 | 74 | 121 |
| | 0619LCS51 | | 2516238 | Bromomethane | 104 | 42 | 154 |
| | 0619LCS51 | | 2516259 | Bromomethane | 104 | 42 | 154 |
| | 0619LCS51 | | 2516259 | Carbon Disulfide | 100 | 56 | 104 |
| | 0619LCS51 | | 2516238 | Carbon Disulfide | 100 | 56 | 104 |
| | 0619LCS51 | | 2516259 | Carbon tetrachloride | 103 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51 | WATER | 2516238 | Carbon tetrachloride | 103 | 80 | 120 |
| | 0619LCS51 | | 2516259 | Chlorobenzene | 92 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Chlorobenzene | 92 | 78 | 118 |
| | 0619LCS51 | | 2516259 | Chloroethane | 99.5 | 51 | 133 |
| | 0619LCS51 | | 2516238 | Chloroethane | 99.5 | 51 | 133 |
| | 0619LCS51 | | 2516259 | Chloroform | 92.5 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Chloroform | 92.5 | 78 | 118 |
| | 0619LCS51 | | 2516259 | Chloromethane | 109 | 46 | 142 |
| | 0619LCS51 | | 2516238 | Chloromethane | 109 | 46 | 142 |
| | 0619LCS51 | | 2516238 | Cis-1,2-DCE | 96.5 | 75 | 115 |
| | 0619LCS51 | | 2516259 | Cis-1,2-DCE | 96.5 | 75 | 115 |
| | 0619LCS51 | | 2516259 | cis-1,3-Dichloropropene | 95.5 | 76 | 113 |
| | 0619LCS51 | | 2516238 | cis-1,3-Dichloropropene | 95.5 | 76 | 113 |
| | 0619LCS51 | | 2516238 | Dibromochloromethane | 91 | 76 | 116 |
| | 0619LCS51 | | 2516259 | Dibromochloromethane | 91 | 76 | 116 |
| | 0619LCS51 | | 2516259 | Dibromomethane | 84 | 77 | 117 |
| | 0619LCS51 | | 2516238 | Dibromomethane | 84 | 77 | 117 |
| | 0619LCS51 | | 2516259 | Dichlorodifluoromethane | 108 | 56 | 140 |
| | 0619LCS51 | | 2516238 | Dichlorodifluoromethane | 108 | 56 | 140 |
| | 0619LCS51 | | 2516238 | Ethylbenzene | 95 | 78 | 118 |
| | 0619LCS51 | | 2516259 | Ethylbenzene | 95 | 78 | 118 |
| | 0619LCS51 | | 2516259 | Hexachlorobutadiene | 101 | 73 | 123 |
| | 0619LCS51 | | 2516238 | Hexachlorobutadiene | 101 | 73 | 123 |
| | 0619LCS51 | | 2516259 | Isopropylbenzene | 100 | 71 | 113 |
| | 0619LCS51 | | 2516238 | Isopropylbenzene | 100 | 71 | 113 |
| | 0619LCS51 | | 2516238 | m,p-Xylene | 96.8 | 78 | 118 |
| | 0619LCS51 | | 2516259 | m,p-Xylene | 96.8 | 78 | 118 |
| | 0619LCS51 | | 2516238 | Methyl tert-Butyl Ether | 88 | 58 | 116 |
| | 0619LCS51 | | 2516259 | Methyl tert-Butyl Ether | 88 | 58 | 116 |
| | 0619LCS51 | | 2516238 | Methylene chloride | 74 | 71 | 119 |
| | 0619LCS51 | | 2516259 | Methylene chloride | 74 | 71 | 119 |
| | 0619LCS51 | | 2516238 | Naphthalene | 85 | 62 | 121 |
| | 0619LCS51 | | 2516259 | Naphthalene | 85 | 62 | 121 |
| | 0619LCS51 | | 2516238 | n-Butylbenzene | 100 | 76 | 117 |
| | 0619LCS51 | | 2516259 | n-Butylbenzene | 100 | 76 | 117 |
| | 0619LCS51 | | 2516238 | n-Propylbenzene | 100 | 76 | 116 |
| | 0619LCS51 | | 2516259 | n-Propylbenzene | 100 | 76 | 116 |
| | 0619LCS51 | | 2516238 | o-Xylene | 97 | 77 | 117 |
| | 0619LCS51 | | 2516259 | o-Xylene | 97 | 77 | 117 |
| | 0619LCS51 | | 2516238 | p-Isopropyltoluene | 97.5 | 76 | 113 |
| | 0619LCS51 | | 2516259 | p-Isopropyltoluene | 97.5 | 76 | 113 |
| | 0619LCS51 | | 2516259 | Sec-Butylbenzene | 101 | 80 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51 | WATER | 2516238 | Sec-Butylbenzene | 101 | 80 | 120 |
| | 0619LCS51 | | 2516259 | Styrene | 96 | 77 | 117 |
| | 0619LCS51 | | 2516238 | Styrene | 96 | 77 | 117 |
| | 0619LCS51 | | 2516238 | tert-Butylbenzene | 99 | 76 | 116 |
| | 0619LCS51 | | 2516259 | tert-Butylbenzene | 99 | 76 | 116 |
| | 0619LCS51 | | 2516238 | Tetrachloroethene | 99 | 77 | 117 |
| | 0619LCS51 | | 2516259 | Tetrachloroethene | 99 | 77 | 117 |
| | 0619LCS51 | | 2516259 | Toluene | 98.5 | 73 | 120 |
| | 0619LCS51 | | 2516238 | Toluene | 98.5 | 73 | 120 |
| | 0619LCS51 | | 2516238 | trans-1,2-Dichloroethene | 96.5 | 80 | 120 |
| | 0619LCS51 | | 2516259 | trans-1,2-Dichloroethene | 96.5 | 80 | 120 |
| | 0619LCS51 | | 2516238 | trans-1,3-Dichloropropene | 92.5 | 72 | 117 |
| | 0619LCS51 | | 2516259 | trans-1,3-Dichloropropene | 92.5 | 72 | 117 |
| | 0619LCS51 | | 2516238 | Trichloroethene | 95.5 | 78 | 122 |
| | 0619LCS51 | | 2516259 | Trichloroethene | 95.5 | 78 | 122 |
| | 0619LCS51 | | 2516259 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 0619LCS51 | | 2516238 | Trichlorofluoromethane | 107 | 65 | 190 |
| | 0619LCS51 | | 2516238 | Vinyl chloride | 104 | 49 | 136 |
| | 0619LCS51 | | 2516259 | Vinyl chloride | 104 | 49 | 136 |
| | 0619LCS51 | | 2516238 | Xylenes, Total | 97 | 77 | 117 |
| | 0619LCS51 | | 2516259 | Xylenes, Total | 97 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,1,1,2-Tetrachloroethane | 93 | 77 | 117 |
| | 0619LCS51D | | 2516238 | 1,1,1,2-Tetrachloroethane | 93 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,1,1-Trichloroethane | 98 | 78 | 118 |
| | 0619LCS51D | | 2516238 | 1,1,1-Trichloroethane | 98 | 78 | 118 |
| | 0619LCS51D | | 2516259 | 1,1,2,2-Tetrachloroethane | 88 | 73 | 119 |
| | 0619LCS51D | | 2516238 | 1,1,2,2-Tetrachloroethane | 88 | 73 | 119 |
| | 0619LCS51D | | 2516259 | 1,1,2-Trichloroethane | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 1,1,2-Trichloroethane | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 1,1-Dichloroethane | 97.5 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,1-Dichloroethane | 97.5 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,1-Dichloroethene | 100 | 66 | 133 |
| | 0619LCS51D | | 2516238 | 1,1-Dichloroethene | 100 | 66 | 133 |
| | 0619LCS51D | | 2516238 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 0619LCS51D | | 2516259 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 0619LCS51D | | 2516238 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 0619LCS51D | | 2516259 | 1,2,3-Trichlorobenzene | 97 | 66 | 123 |
| | 0619LCS51D | | 2516238 | 1,2,3-Trichloropropane | 88 | 84 | 118 |
| | 0619LCS51D | | 2516259 | 1,2,3-Trichloropropane | 88 | 84 | 118 |
| | 0619LCS51D | | 2516238 | 1,2,4-Trichlorobenzene | 95.5 | 73 | 121 |
| | 0619LCS51D | | 2516259 | 1,2,4-Trichlorobenzene | 95.5 | 73 | 121 |
| | 0619LCS51D | | 2516238 | 1,2,4-Trimethylbenzene | 96 | 77 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51D | WATER | 2516259 | 1,2,4-Trimethylbenzene | 96 | 77 | 120 |
| | 0619LCS51D | | 2516259 | 1,2-Dibromo-3-chloropropane | 91 | 65 | 117 |
| | 0619LCS51D | | 2516238 | 1,2-Dibromo-3-chloropropane | 91 | 65 | 117 |
| | 0619LCS51D | | 2516238 | 1,2-Dibromoethane | 92 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,2-Dibromoethane | 92 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,2-Dichlorobenzene | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 1,2-Dichlorobenzene | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516259 | 1,2-Dichloroethane | 88.5 | 74 | 120 |
| | 0619LCS51D | | 2516238 | 1,2-Dichloroethane | 88.5 | 74 | 120 |
| | 0619LCS51D | | 2516259 | 1,2-Dichloropropane | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 1,2-Dichloropropane | 92.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 1,3,5-Trimethylbenzene | 95 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,3,5-Trimethylbenzene | 95 | 77 | 117 |
| | 0619LCS51D | | 2516238 | 1,3-Dichlorobenzene | 93.5 | 75 | 115 |
| | 0619LCS51D | | 2516259 | 1,3-Dichlorobenzene | 93.5 | 75 | 115 |
| | 0619LCS51D | | 2516259 | 1,3-Dichloropropane | 90.5 | 75 | 115 |
| | 0619LCS51D | | 2516238 | 1,3-Dichloropropane | 90.5 | 75 | 115 |
| | 0619LCS51D | | 2516238 | 1,4-Dichlorobenzene | 91 | 77 | 117 |
| | 0619LCS51D | | 2516259 | 1,4-Dichlorobenzene | 91 | 77 | 117 |
| | 0619LCS51D | | 2516238 | 2,2-Dichloropropane | 105 | 72 | 128 |
| | 0619LCS51D | | 2516259 | 2,2-Dichloropropane | 105 | 72 | 128 |
| | 0619LCS51D | | 2516259 | 2-Butanone | 94.8 | 57 | 120 |
| | 0619LCS51D | | 2516238 | 2-Butanone | 94.8 | 57 | 120 |
| | 0619LCS51D | | 2516238 | 2-Chlorotoluene | 95.5 | 76 | 116 |
| | 0619LCS51D | | 2516259 | 2-Chlorotoluene | 95.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | 2-Hexanone | 88.2 | 57 | 121 |
| | 0619LCS51D | | 2516259 | 2-Hexanone | 88.2 | 57 | 121 |
| | 0619LCS51D | | 2516238 | 4-Chlorotoluene | 96 | 78 | 118 |
| | 0619LCS51D | | 2516259 | 4-Chlorotoluene | 96 | 78 | 118 |
| | 0619LCS51D | | 2516238 | 4-Methyl-2-Pentanone | 86 | 65 | 118 |
| | 0619LCS51D | | 2516259 | 4-Methyl-2-Pentanone | 86 | 65 | 118 |
| | 0619LCS51D | | 2516259 | Acetone | 108 | 48 | 130 |
| | 0619LCS51D | | 2516238 | Acetone | 108 | 48 | 130 |
| | 0619LCS51D | | 2516259 | Benzene | 95 | 77 | 118 |
| | 0619LCS51D | | 2516238 | Benzene | 95 | 77 | 118 |
| | 0619LCS51D | | 2516259 | Bromobenzene | 95 | 75 | 115 |
| | 0619LCS51D | | 2516238 | Bromobenzene | 95 | 75 | 115 |
| | 0619LCS51D | | 2516259 | Bromochloromethane | 92 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Bromochloromethane | 92 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Bromodichloromethane | 94.5 | 78 | 118 |
| | 0619LCS51D | | 2516259 | Bromodichloromethane | 94.5 | 78 | 118 |
| | 0619LCS51D | | 2516259 | Bromoform | 87 | 74 | 121 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51D | WATER | 2516238 | Bromoform | 87 | 74 | 121 |
| | 0619LCS51D | | 2516238 | Bromomethane | 95.5 | 42 | 154 |
| | 0619LCS51D | | 2516259 | Bromomethane | 95.5 | 42 | 154 |
| | 0619LCS51D | | 2516238 | Carbon Disulfide | 96.5 | 56 | 104 |
| | 0619LCS51D | | 2516259 | Carbon Disulfide | 96.5 | 56 | 104 |
| | 0619LCS51D | | 2516238 | Carbon tetrachloride | 102 | 80 | 120 |
| | 0619LCS51D | | 2516259 | Carbon tetrachloride | 102 | 80 | 120 |
| | 0619LCS51D | | 2516238 | Chlorobenzene | 90 | 78 | 118 |
| | 0619LCS51D | | 2516259 | Chlorobenzene | 90 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Chloroethane | 92 | 51 | 133 |
| | 0619LCS51D | | 2516259 | Chloroethane | 92 | 51 | 133 |
| | 0619LCS51D | | 2516238 | Chloroform | 91 | 78 | 118 |
| | 0619LCS51D | | 2516259 | Chloroform | 91 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Chloromethane | 102 | 46 | 142 |
| | 0619LCS51D | | 2516259 | Chloromethane | 102 | 46 | 142 |
| | 0619LCS51D | | 2516238 | Cis-1,2-DCE | 98.5 | 75 | 115 |
| | 0619LCS51D | | 2516259 | Cis-1,2-DCE | 98.5 | 75 | 115 |
| | 0619LCS51D | | 2516238 | cis-1,3-Dichloropropene | 95.5 | 76 | 113 |
| | 0619LCS51D | | 2516259 | cis-1,3-Dichloropropene | 95.5 | 76 | 113 |
| | 0619LCS51D | | 2516238 | Dibromochloromethane | 89.5 | 76 | 116 |
| | 0619LCS51D | | 2516259 | Dibromochloromethane | 89.5 | 76 | 116 |
| | 0619LCS51D | | 2516238 | Dibromomethane | 90.5 | 77 | 117 |
| | 0619LCS51D | | 2516259 | Dibromomethane | 90.5 | 77 | 117 |
| | 0619LCS51D | | 2516238 | Dichlorodifluoromethane | 106 | 56 | 140 |
| | 0619LCS51D | | 2516259 | Dichlorodifluoromethane | 106 | 56 | 140 |
| | 0619LCS51D | | 2516238 | Ethylbenzene | 94 | 78 | 118 |
| | 0619LCS51D | | 2516259 | Ethylbenzene | 94 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Hexachlorobutadiene | 97 | 73 | 123 |
| | 0619LCS51D | | 2516259 | Hexachlorobutadiene | 97 | 73 | 123 |
| | 0619LCS51D | | 2516259 | Isopropylbenzene | 93.5 | 71 | 113 |
| | 0619LCS51D | | 2516238 | Isopropylbenzene | 93.5 | 71 | 113 |
| | 0619LCS51D | | 2516259 | m,p-Xylene | 93.8 | 78 | 118 |
| | 0619LCS51D | | 2516238 | m,p-Xylene | 93.8 | 78 | 118 |
| | 0619LCS51D | | 2516238 | Methyl tert-Butyl Ether | 94 | 58 | 116 |
| | 0619LCS51D | | 2516259 | Methyl tert-Butyl Ether | 94 | 58 | 116 |
| | 0619LCS51D | | 2516238 | Methylene chloride | 72 | 71 | 119 |
| | 0619LCS51D | | 2516259 | Methylene chloride | 72 | 71 | 119 |
| | 0619LCS51D | | 2516259 | Naphthalene | 94 | 62 | 121 |
| | 0619LCS51D | | 2516238 | Naphthalene | 94 | 62 | 121 |
| | 0619LCS51D | | 2516259 | n-Butylbenzene | 97 | 76 | 117 |
| | 0619LCS51D | | 2516238 | n-Butylbenzene | 97 | 76 | 117 |
| | 0619LCS51D | | 2516259 | n-Propylbenzene | 97.5 | 76 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 0619LCS51D | WATER | 2516238 | n-Propylbenzene | 97.5 | 76 | 116 |
| | 0619LCS51D | | 2516259 | o-Xylene | 94.5 | 77 | 117 |
| | 0619LCS51D | | 2516238 | o-Xylene | 94.5 | 77 | 117 |
| | 0619LCS51D | | 2516238 | p-Isopropyltoluene | 95 | 76 | 113 |
| | 0619LCS51D | | 2516259 | p-Isopropyltoluene | 95 | 76 | 113 |
| | 0619LCS51D | | 2516259 | Sec-Butylbenzene | 98 | 80 | 120 |
| | 0619LCS51D | | 2516238 | Sec-Butylbenzene | 98 | 80 | 120 |
| | 0619LCS51D | | 2516259 | Styrene | 94 | 77 | 117 |
| | 0619LCS51D | | 2516238 | Styrene | 94 | 77 | 117 |
| | 0619LCS51D | | 2516238 | tert-Butylbenzene | 96 | 76 | 116 |
| | 0619LCS51D | | 2516259 | tert-Butylbenzene | 96 | 76 | 116 |
| | 0619LCS51D | | 2516238 | Tetrachloroethene | 98 | 77 | 117 |
| | 0619LCS51D | | 2516259 | Tetrachloroethene | 98 | 77 | 117 |
| | 0619LCS51D | | 2516238 | Toluene | 97 | 73 | 120 |
| | 0619LCS51D | | 2516259 | Toluene | 97 | 73 | 120 |
| | 0619LCS51D | | 2516259 | trans-1,2-Dichloroethene | 97 | 80 | 120 |
| | 0619LCS51D | | 2516238 | trans-1,2-Dichloroethene | 97 | 80 | 120 |
| | 0619LCS51D | | 2516238 | trans-1,3-Dichloropropene | 95.5 | 72 | 117 |
| | 0619LCS51D | | 2516259 | trans-1,3-Dichloropropene | 95.5 | 72 | 117 |
| | 0619LCS51D | | 2516259 | Trichloroethene | 95 | 78 | 122 |
| | 0619LCS51D | | 2516238 | Trichloroethene | 95 | 78 | 122 |
| | 0619LCS51D | | 2516259 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 0619LCS51D | | 2516238 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 0619LCS51D | | 2516259 | Vinyl chloride | 102 | 49 | 136 |
| | 0619LCS51D | | 2516238 | Vinyl chloride | 102 | 49 | 136 |
| | 0619LCS51D | | 2516259 | Xylenes, Total | 94 | 77 | 117 |
| | 0619LCS51D | | 2516238 | Xylenes, Total | 94 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 1,1,1,2-Tetrachloroethane | 90 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 1,1,1-Trichloroethane | 95.5 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | 1,1,2,2-Tetrachloroethane | 95 | 73 | 119 |
| | 063010LCSA31 | | 2516299 | 1,1,2-Trichloroethane | 96.5 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | 1,1-Dichloroethane | 99 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 1,1-Dichloroethene | 102 | 66 | 133 |
| | 063010LCSA31 | | 2516299 | 1,1-Dichloropropene | 98.5 | 75 | 115 |
| | 063010LCSA31 | | 2516299 | 1,2,3-Trichlorobenzene | 99.5 | 66 | 123 |
| | 063010LCSA31 | | 2516299 | 1,2,3-Trichloropropane | 97 | 84 | 118 |
| | 063010LCSA31 | | 2516299 | 1,2,4-Trichlorobenzene | 100 | 73 | 121 |
| | 063010LCSA31 | | 2516299 | 1,2,4-Trimethylbenzene | 102 | 77 | 120 |
| | 063010LCSA31 | | 2516299 | 1,2-Dibromo-3-chloropropane | 94.5 | 65 | 117 |
| | 063010LCSA31 | | 2516299 | 1,2-Dibromoethane | 92 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 1,2-Dichlorobenzene | 99.5 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | 1,2-Dichloroethane | 95 | 74 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 063010LCSA31 | WATER | 2516299 | 1,2-Dichloropropane | 102 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | 1,3,5-Trimethylbenzene | 100 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 1,3-Dichlorobenzene | 99 | 75 | 115 |
| | 063010LCSA31 | | 2516299 | 1,3-Dichloropropane | 98 | 75 | 115 |
| | 063010LCSA31 | | 2516299 | 1,4-Dichlorobenzene | 102 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | 2,2-Dichloropropane | 103 | 72 | 128 |
| | 063010LCSA31 | | 2516299 | 2-Butanone | 89.5 | 57 | 120 |
| | 063010LCSA31 | | 2516299 | 2-Chlorotoluene | 100 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | 2-Hexanone | 96.8 | 57 | 121 |
| | 063010LCSA31 | | 2516299 | 4-Chlorotoluene | 102 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | 4-Methyl-2-Pentanone | 95.5 | 65 | 118 |
| | 063010LCSA31 | | 2516299 | Acetone | 95 | 48 | 130 |
| | 063010LCSA31 | | 2516299 | Benzene | 95 | 77 | 118 |
| | 063010LCSA31 | | 2516299 | Bromobenzene | 96 | 75 | 115 |
| | 063010LCSA31 | | 2516299 | Bromochloromethane | 100 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Bromodichloromethane | 103 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Bromoform | 87.5 | 74 | 121 |
| | 063010LCSA31 | | 2516299 | Bromomethane | 104 | 42 | 154 |
| | 063010LCSA31 | | 2516299 | Carbon Disulfide | 96.5 | 56 | 104 |
| | 063010LCSA31 | | 2516299 | Carbon tetrachloride | 86.5 | 80 | 120 |
| | 063010LCSA31 | | 2516299 | Chlorobenzene | 98 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Chloroethane | 101 | 51 | 133 |
| | 063010LCSA31 | | 2516299 | Chloroform | 96.5 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Chloromethane | 98.5 | 46 | 142 |
| | 063010LCSA31 | | 2516299 | Cis-1,2-DCE | 100 | 75 | 115 |
| | 063010LCSA31 | | 2516299 | cis-1,3-Dichloropropene | 94 | 76 | 113 |
| | 063010LCSA31 | | 2516299 | Dibromochloromethane | 100 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | Dibromomethane | 96 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | Dichlorodifluoromethane | 100 | 56 | 140 |
| | 063010LCSA31 | | 2516299 | Ethylbenzene | 100 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Hexachlorobutadiene | 107 | 73 | 123 |
| | 063010LCSA31 | | 2516299 | Isopropylbenzene | 100 | 71 | 113 |
| | 063010LCSA31 | | 2516299 | m,p-Xylene | 98.8 | 78 | 118 |
| | 063010LCSA31 | | 2516299 | Methyl tert-Butyl Ether | 113 | 58 | 116 |
| | 063010LCSA31 | | 2516299 | Methylene chloride | 108 | 71 | 119 |
| | 063010LCSA31 | | 2516299 | Naphthalene | 97.5 | 62 | 121 |
| | 063010LCSA31 | | 2516299 | n-Butylbenzene | 103 | 76 | 117 |
| | 063010LCSA31 | | 2516299 | n-Propylbenzene | 102 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | o-Xylene | 99 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | p-Isopropyltoluene | 102 | 76 | 113 |
| | 063010LCSA31 | | 2516299 | Sec-Butylbenzene | 102 | 80 | 120 |
| | 063010LCSA31 | | 2516299 | Styrene | 104 | 77 | 117 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 063010LCSA31 | WATER | 2516299 | tert-Butylbenzene | 101 | 76 | 116 |
| | 063010LCSA31 | | 2516299 | Tetrachloroethene | 100 | 77 | 117 |
| | 063010LCSA31 | | 2516299 | Toluene | 99.5 | 73 | 120 |
| | 063010LCSA31 | | 2516299 | trans-1,2-Dichloroethene | 102 | 80 | 120 |
| | 063010LCSA31 | | 2516299 | trans-1,3-Dichloropropene | 91.5 | 72 | 117 |
| | 063010LCSA31 | | 2516299 | Trichloroethene | 103 | 78 | 122 |
| | 063010LCSA31 | | 2516299 | Trichlorofluoromethane | 106 | 65 | 190 |
| | 063010LCSA31 | | 2516299 | Vinyl chloride | 111 | 49 | 136 |
| | 063010LCSA31 | | 2516299 | Xylenes, Total | 99 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 1,1,1,2-Tetrachloroethane | 90.5 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 1,1,1-Trichloroethane | 92.5 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | 1,1,2,2-Tetrachloroethane | 98 | 73 | 119 |
| | 063010LCSA31D | | 2516299 | 1,1,2-Trichloroethane | 98 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | 1,1-Dichloroethane | 97 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 1,1-Dichloroethene | 95 | 66 | 133 |
| | 063010LCSA31D | | 2516299 | 1,1-Dichloropropene | 100 | 75 | 115 |
| | 063010LCSA31D | | 2516299 | 1,2,3-Trichlorobenzene | 97.5 | 66 | 123 |
| | 063010LCSA31D | | 2516299 | 1,2,3-Trichloropropane | 100 | 84 | 118 |
| | 063010LCSA31D | | 2516299 | 1,2,4-Trichlorobenzene | 97.5 | 73 | 121 |
| | 063010LCSA31D | | 2516299 | 1,2,4-Trimethylbenzene | 99 | 77 | 120 |
| | 063010LCSA31D | | 2516299 | 1,2-Dibromo-3-chloropropane | 88 | 65 | 117 |
| | 063010LCSA31D | | 2516299 | 1,2-Dibromoethane | 93.5 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 1,2-Dichlorobenzene | 95 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | 1,2-Dichloroethane | 95.5 | 74 | 120 |
| | 063010LCSA31D | | 2516299 | 1,2-Dichloropropane | 99.5 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | 1,3,5-Trimethylbenzene | 100 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 1,3-Dichlorobenzene | 97 | 75 | 115 |
| | 063010LCSA31D | | 2516299 | 1,3-Dichloropropane | 102 | 75 | 115 |
| | 063010LCSA31D | | 2516299 | 1,4-Dichlorobenzene | 100 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | 2,2-Dichloropropane | 106 | 72 | 128 |
| | 063010LCSA31D | | 2516299 | 2-Butanone | 93.2 | 57 | 120 |
| | 063010LCSA31D | | 2516299 | 2-Chlorotoluene | 99 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | 2-Hexanone | 99.8 | 57 | 121 |
| | 063010LCSA31D | | 2516299 | 4-Chlorotoluene | 99 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | 4-Methyl-2-Pentanone | 99 | 65 | 118 |
| | 063010LCSA31D | | 2516299 | Acetone | 87.5 | 48 | 130 |
| | 063010LCSA31D | | 2516299 | Benzene | 93 | 77 | 118 |
| | 063010LCSA31D | | 2516299 | Bromobenzene | 96 | 75 | 115 |
| | 063010LCSA31D | | 2516299 | Bromochloromethane | 96 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Bromodichloromethane | 97.5 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Bromoform | 89 | 74 | 121 |
| | 063010LCSA31D | | 2516299 | Bromomethane | 100 | 42 | 154 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | |
| | 063010LCSA31D | WATER | 2516299 | Carbon Disulfide | 92 | 56 | 104 |
| | 063010LCSA31D | | 2516299 | Carbon tetrachloride | 86 | 80 | 120 |
| | 063010LCSA31D | | 2516299 | Chlorobenzene | 98.5 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Chloroethane | 97 | 51 | 133 |
| | 063010LCSA31D | | 2516299 | Chloroform | 93 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Chloromethane | 94 | 46 | 142 |
| | 063010LCSA31D | | 2516299 | Cis-1,2-DCE | 97 | 75 | 115 |
| | 063010LCSA31D | | 2516299 | cis-1,3-Dichloropropene | 91.5 | 76 | 113 |
| | 063010LCSA31D | | 2516299 | Dibromochloromethane | 102 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | Dibromomethane | 96 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | Dichlorodifluoromethane | 100 | 56 | 140 |
| | 063010LCSA31D | | 2516299 | Ethylbenzene | 101 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Hexachlorobutadiene | 98.5 | 73 | 123 |
| | 063010LCSA31D | | 2516299 | Isopropylbenzene | 97 | 71 | 113 |
| | 063010LCSA31D | | 2516299 | m,p-Xylene | 98 | 78 | 118 |
| | 063010LCSA31D | | 2516299 | Methyl tert-Butyl Ether | 106 | 58 | 116 |
| | 063010LCSA31D | | 2516299 | Methylene chloride | 106 | 71 | 119 |
| | 063010LCSA31D | | 2516299 | Naphthalene | 100 | 62 | 121 |
| | 063010LCSA31D | | 2516299 | n-Butylbenzene | 99 | 76 | 117 |
| | 063010LCSA31D | | 2516299 | n-Propylbenzene | 100 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | o-Xylene | 97.5 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | p-Isopropyltoluene | 101 | 76 | 113 |
| | 063010LCSA31D | | 2516299 | Sec-Butylbenzene | 99.5 | 80 | 120 |
| | 063010LCSA31D | | 2516299 | Styrene | 104 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | tert-Butylbenzene | 100 | 76 | 116 |
| | 063010LCSA31D | | 2516299 | Tetrachloroethene | 100 | 77 | 117 |
| | 063010LCSA31D | | 2516299 | Toluene | 99.5 | 73 | 120 |
| | 063010LCSA31D | | 2516299 | trans-1,2-Dichloroethene | 96 | 80 | 120 |
| | 063010LCSA31D | | 2516299 | trans-1,3-Dichloropropene | 90 | 72 | 117 |
| | 063010LCSA31D | | 2516299 | Trichloroethene | 93.5 | 78 | 122 |
| | 063010LCSA31D | | 2516299 | Trichlorofluoromethane | 104 | 65 | 190 |
| | 063010LCSA31D | | 2516299 | Vinyl chloride | 103 | 49 | 136 |
| | 063010LCSA31D | | 2516299 | Xylenes, Total | 97.8 | 77 | 117 |
| **SW8270C** | | | | | | | |
| | 301833 | WATER | 2515580 | 1,2-Dichlorobenzene | 74.5 | 40 | 120 |
| | 301833 | | 2515580 | 1,2-Diphenylhydrazine | 88.8 | 55 | 120 |
| | 301833 | | 2515580 | 1,3-Dinitrobenzene | 89.5 | 45 | 135 |
| | 301833 | | 2515580 | 2,4,5-Trichlorophenol | 84.8 | 60 | 120 |
| | 301833 | | 2515580 | 2,4,6-Trichlorophenol | 85.8 | 52 | 120 |
| | 301833 | | 2515580 | 2,4-Dichlorophenol | 84.8 | 59 | 120 |
| | 301833 | | 2515580 | 2,4-Dimethylphenol | 88 | 41 | 120 |
| | 301833 | | 2515580 | 2,4-Dinitrophenol | 91.6 | 30 | 136 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301833 | WATER | 2515580 | 2,4-Dinitrotoluene | 89 | 51 | 120 |
| | 301833 | | 2515580 | 2,6-Dinitrotoluene | 87.8 | 42 | 125 |
| | 301833 | | 2515580 | 2-Chloronaphthalene | 81.2 | 47 | 120 |
| | 301833 | | 2515580 | 2-Chlorophenol | 82.5 | 57 | 120 |
| | 301833 | | 2515580 | 2-Methylnaphthalene | 84.5 | 54 | 120 |
| | 301833 | | 2515580 | 2-Methylphenol | 81.8 | 50 | 120 |
| | 301833 | | 2515580 | 2-Nitroaniline | 86.2 | 44 | 120 |
| | 301833 | | 2515580 | 2-Nitrophenol | 85.2 | 51 | 120 |
| | 301833 | | 2515580 | 3,3'-Dichlorobenzidine | 96.8 | 29 | 120 |
| | 301833 | | 2515580 | 3-Nitroaniline | 96 | 49 | 120 |
| | 301833 | | 2515580 | 4,6-Dinitro-2-methylphenol | 82.5 | 37 | 126 |
| | 301833 | | 2515580 | 4-Bromophenyl phenyl ether | 93.8 | 52 | 120 |
| | 301833 | | 2515580 | 4-Chloro-3-methylphenol | 85.8 | 63 | 120 |
| | 301833 | | 2515580 | 4-Chloroaniline | 96 | 52 | 120 |
| | 301833 | | 2515580 | 4-Chlorophenyl phenyl ether | 89.5 | 56 | 120 |
| | 301833 | | 2515580 | **4-Methylphenol** | **155** | **37** | **110** |
| | 301833 | | 2515580 | 4-Nitroaniline | 112 | 67 | 120 |
| | 301833 | | 2515580 | **4-Nitrophenol** | **42** | **49** | **124** |
| | 301833 | | 2515580 | Acenaphthene | 75 | 53 | 120 |
| | 301833 | | 2515580 | Acenaphthylene | 75 | 54 | 120 |
| | 301833 | | 2515580 | Anthracene | 83 | 56 | 120 |
| | 301833 | | 2515580 | Benzidine | 63.5 | 10 | 218 |
| | 301833 | | 2515580 | Benzo (a) anthracene | 75.8 | 54 | 120 |
| | 301833 | | 2515580 | Benzo (a) pyrene | 75.5 | 53 | 120 |
| | 301833 | | 2515580 | Benzo (b) fluoranthene | 83.5 | 57 | 120 |
| | 301833 | | 2515580 | Benzo (g,h,i) perylene | 85 | 53 | 120 |
| | 301833 | | 2515580 | Benzo (k) fluoranthene | 71.5 | 54 | 120 |
| | 301833 | | 2515580 | Benzoic acid | 22.1 | 16 | 120 |
| | 301833 | | 2515580 | Bis (2-chloroethoxy) methane | 100 | 52 | 120 |
| | 301833 | | 2515580 | Bis (2-chloroethyl) ether | 91.5 | 49 | 120 |
| | 301833 | | 2515580 | Bis (2-ethylhexyl) phthalate | 97.8 | 48 | 120 |
| | 301833 | | 2515580 | Butyl benzylphthalate | 97.5 | 55 | 120 |
| | 301833 | | 2515580 | Chrysene | 75.2 | 56 | 120 |
| | 301833 | | 2515580 | Dibenzo (a,h) anthracene | 82.8 | 54 | 120 |
| | 301833 | | 2515580 | Dibenzofuran | 86.8 | 58 | 120 |
| | 301833 | | 2515580 | Diethyl phthalate | 92.8 | 61 | 120 |
| | 301833 | | 2515580 | Dimethyl phthalate | 93.8 | 61 | 120 |
| | 301833 | | 2515580 | Di-n-butylphthalate | 92.8 | 52 | 120 |
| | 301833 | | 2515580 | Di-n-octylphthalate | 101 | 47 | 120 |
| | 301833 | | 2515580 | Fluoranthene | 79 | 49 | 120 |
| | 301833 | | 2515580 | Fluoranthene | 79 | 64 | 120 |
| | 301833 | | 2515580 | Fluorene | 74.2 | 57 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301833 | WATER | 2515580 | Fluorene | 74.2 | 56 | 120 |
| | 301833 | | 2515580 | Hexachlorobenzene | 85 | 53 | 120 |
| | 301833 | | 2515580 | Hexachlorobutadiene | 77.5 | 40 | 120 |
| | 301833 | | 2515580 | Hexachlorobutadiene | 77.5 | 42 | 120 |
| | 301833 | | 2515580 | Hexachlorocyclopentadiene | 65.2 | 10 | 120 |
| | 301833 | | 2515580 | Hexachloroethane | 85.5 | 36 | 120 |
| | 301833 | | 2515580 | Indeno (1,2,3-c,d) pyrene | 80.8 | 56 | 120 |
| | 301833 | | 2515580 | Naphthalene | 73 | 46 | 120 |
| | 301833 | | 2515580 | Nitrobenzene | 87.2 | 41 | 120 |
| | 301833 | | 2515580 | n-Nitrosodi-n-propylamine | 89.8 | 57 | 120 |
| | 301833 | | 2515580 | n-Nitrosodiphenylamine | 99 | 58 | 120 |
| | 301833 | | 2515580 | Pentachlorophenol | 90.8 | 52 | 120 |
| | 301833 | | 2515580 | Phenanthrene | 75.5 | 57 | 120 |
| | 301833 | | 2515580 | **Phenol** | **46.2** | **52** | **120** |
| | 301833 | | 2515580 | Pyrene | 74 | 62 | 130 |
| | 301834 | | 2515580 | 1,2-Dichlorobenzene | 78.5 | 40 | 120 |
| | 301834 | | 2515580 | 1,2-Diphenylhydrazine | 91.2 | 55 | 120 |
| | 301834 | | 2515580 | 1,3-Dinitrobenzene | 89.2 | 45 | 135 |
| | 301834 | | 2515580 | 2,4,5-Trichlorophenol | 85.8 | 60 | 120 |
| | 301834 | | 2515580 | 2,4,6-Trichlorophenol | 88 | 52 | 120 |
| | 301834 | | 2515580 | 2,4-Dichlorophenol | 86.8 | 59 | 120 |
| | 301834 | | 2515580 | 2,4-Dimethylphenol | 93.5 | 41 | 120 |
| | 301834 | | 2515580 | 2,4-Dinitrophenol | 88.4 | 30 | 136 |
| | 301834 | | 2515580 | 2,4-Dinitrotoluene | 90.2 | 51 | 120 |
| | 301834 | | 2515580 | 2,6-Dinitrotoluene | 90 | 42 | 125 |
| | 301834 | | 2515580 | 2-Chloronaphthalene | 85.5 | 47 | 120 |
| | 301834 | | 2515580 | 2-Chlorophenol | 85.5 | 57 | 120 |
| | 301834 | | 2515580 | 2-Methylnaphthalene | 86 | 54 | 120 |
| | 301834 | | 2515580 | 2-Methylphenol | 82.5 | 50 | 120 |
| | 301834 | | 2515580 | 2-Nitroaniline | 89 | 44 | 120 |
| | 301834 | | 2515580 | 2-Nitrophenol | 88 | 51 | 120 |
| | 301834 | | 2515580 | 3,3'-Dichlorobenzidine | 97.6 | 29 | 120 |
| | 301834 | | 2515580 | 3-Nitroaniline | 97.2 | 49 | 120 |
| | 301834 | | 2515580 | 4,6-Dinitro-2-methylphenol | 83.5 | 37 | 126 |
| | 301834 | | 2515580 | 4-Bromophenyl phenyl ether | 95.5 | 52 | 120 |
| | 301834 | | 2515580 | 4-Chloro-3-methylphenol | 85 | 63 | 120 |
| | 301834 | | 2515580 | 4-Chloroaniline | 95.8 | 52 | 120 |
| | 301834 | | 2515580 | 4-Chlorophenyl phenyl ether | 93.2 | 56 | 120 |
| | 301834 | | 2515580 | **4-Methylphenol** | **154** | **37** | **110** |
| | 301834 | | 2515580 | 4-Nitroaniline | 114 | 67 | 120 |
| | 301834 | | 2515580 | **4-Nitrophenol** | **43.2** | **49** | **124** |
| | 301834 | | 2515580 | Acenaphthene | 77.2 | 53 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301834 | WATER | 2515580 | Acenaphthylene | 77.5 | 54 | 120 |
| | 301834 | | 2515580 | Anthracene | 84.2 | 56 | 120 |
| | 301834 | | 2515580 | Benzidine | 48.9 | 10 | 218 |
| | 301834 | | 2515580 | Benzo (a) anthracene | 78.2 | 54 | 120 |
| | 301834 | | 2515580 | Benzo (a) pyrene | 77.8 | 53 | 120 |
| | 301834 | | 2515580 | Benzo (b) fluoranthene | 78.2 | 57 | 120 |
| | 301834 | | 2515580 | Benzo (g,h,i) perylene | 87.8 | 53 | 120 |
| | 301834 | | 2515580 | Benzo (k) fluoranthene | 79 | 54 | 120 |
| | 301834 | | 2515580 | Benzoic acid | 18.4 | 16 | 120 |
| | 301834 | | 2515580 | Bis (2-chloroethoxy) methane | 98.2 | 52 | 120 |
| | 301834 | | 2515580 | Bis (2-chloroethyl) ether | 94 | 49 | 120 |
| | 301834 | | 2515580 | Bis (2-ethylhexyl) phthalate | 109 | 48 | 120 |
| | 301834 | | 2515580 | Butyl benzylphthalate | 101 | 55 | 120 |
| | 301834 | | 2515580 | Chrysene | 77.5 | 56 | 120 |
| | 301834 | | 2515580 | Dibenzo (a,h) anthracene | 87 | 54 | 120 |
| | 301834 | | 2515580 | Dibenzofuran | 89 | 58 | 120 |
| | 301834 | | 2515580 | Diethyl phthalate | 94.8 | 61 | 120 |
| | 301834 | | 2515580 | Dimethyl phthalate | 96 | 61 | 120 |
| | 301834 | | 2515580 | Di-n-butylphthalate | 94.2 | 52 | 120 |
| | 301834 | | 2515580 | Di-n-octylphthalate | 108 | 47 | 120 |
| | 301834 | | 2515580 | Fluoranthene | 79 | 64 | 120 |
| | 301834 | | 2515580 | Fluoranthene | 79 | 49 | 120 |
| | 301834 | | 2515580 | Fluorene | 76.5 | 56 | 120 |
| | 301834 | | 2515580 | Fluorene | 76.5 | 57 | 120 |
| | 301834 | | 2515580 | Hexachlorobenzene | 86.2 | 53 | 120 |
| | 301834 | | 2515580 | Hexachlorobutadiene | 81 | 42 | 120 |
| | 301834 | | 2515580 | Hexachlorobutadiene | 81 | 40 | 120 |
| | 301834 | | 2515580 | Hexachlorocyclopentadiene | 68 | 10 | 120 |
| | 301834 | | 2515580 | Hexachloroethane | 74.8 | 36 | 120 |
| | 301834 | | 2515580 | Indeno (1,2,3-c,d) pyrene | 85.8 | 56 | 120 |
| | 301834 | | 2515580 | Naphthalene | 74.5 | 46 | 120 |
| | 301834 | | 2515580 | Nitrobenzene | 87.5 | 41 | 120 |
| | 301834 | | 2515580 | n-Nitrosodi-n-propylamine | 91.5 | 57 | 120 |
| | 301834 | | 2515580 | n-Nitrosodiphenylamine | 100 | 58 | 120 |
| | 301834 | | 2515580 | Pentachlorophenol | 87.8 | 52 | 120 |
| | 301834 | | 2515580 | Phenanthrene | 76.2 | 57 | 120 |
| | 301834 | | 2515580 | **Phenol** | **48** | **52** | **120** |
| | 301834 | | 2515580 | Pyrene | 77 | 62 | 130 |
| | 301891 | | 2515603 | 1,2-Dichlorobenzene | 72.8 | 40 | 120 |
| | 301891 | | 2515592 | 1,2-Dichlorobenzene | 72.8 | 40 | 120 |
| | 301891 | | 2515592 | 1,2-Diphenylhydrazine | 87.5 | 55 | 120 |
| | 301891 | | 2515603 | 1,2-Diphenylhydrazine | 87.5 | 55 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301891 | WATER | 2515603 | 1,3-Dinitrobenzene | 81.2 | 45 | 135 |
| | 301891 | | 2515592 | 1,3-Dinitrobenzene | 81.2 | 45 | 135 |
| | 301891 | | 2515592 | 2,4,5-Trichlorophenol | 80.2 | 60 | 120 |
| | 301891 | | 2515603 | 2,4,5-Trichlorophenol | 80.2 | 60 | 120 |
| | 301891 | | 2515603 | 2,4,6-Trichlorophenol | 80.5 | 52 | 120 |
| | 301891 | | 2515592 | 2,4,6-Trichlorophenol | 80.5 | 52 | 120 |
| | 301891 | | 2515603 | 2,4-Dichlorophenol | 80 | 59 | 120 |
| | 301891 | | 2515592 | 2,4-Dichlorophenol | 80 | 59 | 120 |
| | 301891 | | 2515592 | 2,4-Dimethylphenol | 84.5 | 41 | 120 |
| | 301891 | | 2515603 | 2,4-Dimethylphenol | 84.5 | 41 | 120 |
| | 301891 | | 2515603 | 2,4-Dinitrophenol | 71.8 | 30 | 136 |
| | 301891 | | 2515592 | 2,4-Dinitrophenol | 71.8 | 30 | 136 |
| | 301891 | | 2515603 | 2,4-Dinitrotoluene | 83.8 | 51 | 120 |
| | 301891 | | 2515592 | 2,4-Dinitrotoluene | 83.8 | 51 | 120 |
| | 301891 | | 2515603 | 2,6-Dinitrotoluene | 83 | 42 | 125 |
| | 301891 | | 2515592 | 2,6-Dinitrotoluene | 83 | 42 | 125 |
| | 301891 | | 2515603 | 2-Chloronaphthalene | 79.5 | 47 | 120 |
| | 301891 | | 2515592 | 2-Chloronaphthalene | 79.5 | 47 | 120 |
| | 301891 | | 2515592 | 2-Chlorophenol | 79 | 57 | 120 |
| | 301891 | | 2515603 | 2-Chlorophenol | 79 | 57 | 120 |
| | 301891 | | 2515592 | 2-Methylnaphthalene | 80.5 | 54 | 120 |
| | 301891 | | 2515603 | 2-Methylnaphthalene | 80.5 | 54 | 120 |
| | 301891 | | 2515592 | 2-Methylphenol | 76.5 | 50 | 120 |
| | 301891 | | 2515603 | 2-Methylphenol | 76.5 | 50 | 120 |
| | 301891 | | 2515603 | 2-Nitroaniline | 83.8 | 44 | 120 |
| | 301891 | | 2515592 | 2-Nitroaniline | 83.8 | 44 | 120 |
| | 301891 | | 2515592 | 2-Nitrophenol | 81 | 51 | 120 |
| | 301891 | | 2515603 | 2-Nitrophenol | 81 | 51 | 120 |
| | 301891 | | 2515603 | 3,3'-Dichlorobenzidine | 91.2 | 29 | 120 |
| | 301891 | | 2515592 | 3,3'-Dichlorobenzidine | 91.2 | 29 | 120 |
| | 301891 | | 2515603 | 3-Nitroaniline | 90 | 49 | 120 |
| | 301891 | | 2515592 | 3-Nitroaniline | 90 | 49 | 120 |
| | 301891 | | 2515603 | 4,6-Dinitro-2-methylphenol | 73.2 | 37 | 126 |
| | 301891 | | 2515592 | 4,6-Dinitro-2-methylphenol | 73.2 | 37 | 126 |
| | 301891 | | 2515603 | 4-Bromophenyl phenyl ether | 90 | 52 | 120 |
| | 301891 | | 2515592 | 4-Bromophenyl phenyl ether | 90 | 52 | 120 |
| | 301891 | | 2515603 | 4-Chloro-3-methylphenol | 80.5 | 63 | 120 |
| | 301891 | | 2515592 | 4-Chloro-3-methylphenol | 80.5 | 63 | 120 |
| | 301891 | | 2515592 | 4-Chloroaniline | 91 | 52 | 120 |
| | 301891 | | 2515603 | 4-Chloroaniline | 91 | 52 | 120 |
| | 301891 | | 2515592 | 4-Chlorophenyl phenyl ether | 84.8 | 56 | 120 |
| | 301891 | | 2515603 | 4-Chlorophenyl phenyl ether | 84.8 | 56 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301891 | WATER | 2515592 | **4-Methylphenol** | **145** | **37** | **110** |
| | 301891 | | 2515603 | **4-Methylphenol** | **145** | **37** | **110** |
| | 301891 | | 2515603 | 4-Nitroaniline | 105 | 67 | 120 |
| | 301891 | | 2515592 | 4-Nitroaniline | 105 | 67 | 120 |
| | 301891 | | 2515603 | **4-Nitrophenol** | **37** | **49** | **124** |
| | 301891 | | 2515592 | **4-Nitrophenol** | **37** | **49** | **124** |
| | 301891 | | 2515603 | Acenaphthene | 70.8 | 53 | 120 |
| | 301891 | | 2515592 | Acenaphthene | 70.8 | 53 | 120 |
| | 301891 | | 2515603 | Acenaphthylene | 71.8 | 54 | 120 |
| | 301891 | | 2515592 | Acenaphthylene | 71.8 | 54 | 120 |
| | 301891 | | 2515603 | Anthracene | 78.2 | 56 | 120 |
| | 301891 | | 2515592 | Anthracene | 78.2 | 56 | 120 |
| | 301891 | | 2515592 | Benzidine | 53.2 | 10 | 218 |
| | 301891 | | 2515603 | Benzidine | 53.2 | 10 | 218 |
| | 301891 | | 2515603 | Benzo (a) anthracene | 72.2 | 54 | 120 |
| | 301891 | | 2515592 | Benzo (a) anthracene | 72.2 | 54 | 120 |
| | 301891 | | 2515603 | Benzo (a) pyrene | 72 | 53 | 120 |
| | 301891 | | 2515592 | Benzo (a) pyrene | 72 | 53 | 120 |
| | 301891 | | 2515603 | Benzo (b) fluoranthene | 74 | 57 | 120 |
| | 301891 | | 2515592 | Benzo (b) fluoranthene | 74 | 57 | 120 |
| | 301891 | | 2515603 | Benzo (g,h,i) perylene | 85 | 53 | 120 |
| | 301891 | | 2515592 | Benzo (g,h,i) perylene | 85 | 53 | 120 |
| | 301891 | | 2515603 | Benzo (k) fluoranthene | 73.8 | 54 | 120 |
| | 301891 | | 2515592 | Benzo (k) fluoranthene | 73.8 | 54 | 120 |
| | 301891 | | 2515592 | **Benzoic acid** | **14.1** | **16** | **120** |
| | 301891 | | 2515603 | **Benzoic acid** | **14.1** | **16** | **120** |
| | 301891 | | 2515592 | Bis (2-chloroethoxy) methane | 94.8 | 52 | 120 |
| | 301891 | | 2515603 | Bis (2-chloroethoxy) methane | 94.8 | 52 | 120 |
| | 301891 | | 2515603 | Bis (2-chloroethyl) ether | 88.2 | 49 | 120 |
| | 301891 | | 2515592 | Bis (2-chloroethyl) ether | 88.2 | 49 | 120 |
| | 301891 | | 2515603 | **Bis (2-ethylhexyl) phthalate** | **130** | **48** | **120** |
| | 301891 | | 2515592 | **Bis (2-ethylhexyl) phthalate** | **130** | **48** | **120** |
| | 301891 | | 2515603 | Butyl benzylphthalate | 94.8 | 55 | 120 |
| | 301891 | | 2515592 | Butyl benzylphthalate | 94.8 | 55 | 120 |
| | 301891 | | 2515603 | Chrysene | 71.2 | 56 | 120 |
| | 301891 | | 2515592 | Chrysene | 71.2 | 56 | 120 |
| | 301891 | | 2515603 | Dibenzo (a,h) anthracene | 79 | 54 | 120 |
| | 301891 | | 2515592 | Dibenzo (a,h) anthracene | 79 | 54 | 120 |
| | 301891 | | 2515603 | Dibenzofuran | 83.2 | 58 | 120 |
| | 301891 | | 2515592 | Dibenzofuran | 83.2 | 58 | 120 |
| | 301891 | | 2515603 | Diethyl phthalate | 87.5 | 61 | 120 |
| | 301891 | | 2515592 | Diethyl phthalate | 87.5 | 61 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301891 | WATER | 2515603 | Dimethyl phthalate | 89.8 | 61 | 120 |
| | 301891 | | 2515592 | Dimethyl phthalate | 89.8 | 61 | 120 |
| | 301891 | | 2515592 | Di-n-butylphthalate | 90 | 52 | 120 |
| | 301891 | | 2515603 | Di-n-butylphthalate | 90 | 52 | 120 |
| | 301891 | | 2515592 | **Di-n-octylphthalate** | **123** | **47** | **120** |
| | 301891 | | 2515603 | **Di-n-octylphthalate** | **123** | **47** | **120** |
| | 301891 | | 2515603 | Fluoranthene | 75 | 64 | 120 |
| | 301891 | | 2515603 | Fluoranthene | 75 | 49 | 120 |
| | 301891 | | 2515592 | Fluoranthene | 75 | 49 | 120 |
| | 301891 | | 2515592 | Fluoranthene | 75 | 64 | 120 |
| | 301891 | | 2515592 | Fluorene | 70.8 | 56 | 120 |
| | 301891 | | 2515592 | Fluorene | 70.8 | 57 | 120 |
| | 301891 | | 2515603 | Fluorene | 70.8 | 56 | 120 |
| | 301891 | | 2515603 | Fluorene | 70.8 | 57 | 120 |
| | 301891 | | 2515592 | Hexachlorobenzene | 81.2 | 53 | 120 |
| | 301891 | | 2515603 | Hexachlorobenzene | 81.2 | 53 | 120 |
| | 301891 | | 2515592 | Hexachlorobutadiene | 75.5 | 40 | 120 |
| | 301891 | | 2515603 | Hexachlorobutadiene | 75.5 | 42 | 120 |
| | 301891 | | 2515603 | Hexachlorobutadiene | 75.5 | 40 | 120 |
| | 301891 | | 2515592 | Hexachlorobutadiene | 75.5 | 42 | 120 |
| | 301891 | | 2515603 | Hexachlorocyclopentadiene | 62 | 10 | 120 |
| | 301891 | | 2515592 | Hexachlorocyclopentadiene | 62 | 10 | 120 |
| | 301891 | | 2515603 | Hexachloroethane | 69.8 | 36 | 120 |
| | 301891 | | 2515592 | Hexachloroethane | 69.8 | 36 | 120 |
| | 301891 | | 2515592 | Indeno (1,2,3-c,d) pyrene | 75.5 | 56 | 120 |
| | 301891 | | 2515603 | Indeno (1,2,3-c,d) pyrene | 75.5 | 56 | 120 |
| | 301891 | | 2515603 | Naphthalene | 71 | 46 | 120 |
| | 301891 | | 2515592 | Naphthalene | 71 | 46 | 120 |
| | 301891 | | 2515603 | Nitrobenzene | 85 | 41 | 120 |
| | 301891 | | 2515592 | Nitrobenzene | 85 | 41 | 120 |
| | 301891 | | 2515592 | n-Nitrosodi-n-propylamine | 90.5 | 57 | 120 |
| | 301891 | | 2515603 | n-Nitrosodi-n-propylamine | 90.5 | 57 | 120 |
| | 301891 | | 2515603 | n-Nitrosodiphenylamine | 93.5 | 58 | 120 |
| | 301891 | | 2515592 | n-Nitrosodiphenylamine | 93.5 | 58 | 120 |
| | 301891 | | 2515592 | Pentachlorophenol | 73.8 | 52 | 120 |
| | 301891 | | 2515603 | Pentachlorophenol | 73.8 | 52 | 120 |
| | 301891 | | 2515592 | Phenanthrene | 71.2 | 57 | 120 |
| | 301891 | | 2515603 | Phenanthrene | 71.2 | 57 | 120 |
| | 301891 | | 2515603 | **Phenol** | **46.8** | **52** | **120** |
| | 301891 | | 2515592 | **Phenol** | **46.8** | **52** | **120** |
| | 301891 | | 2515603 | Pyrene | 71.2 | 62 | 130 |
| | 301891 | | 2515592 | Pyrene | 71.2 | 62 | 130 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301892 | WATER | 2515603 | 1,2-Dichlorobenzene | 79.5 | 40 | 120 |
| | 301892 | | 2515592 | 1,2-Dichlorobenzene | 79.5 | 40 | 120 |
| | 301892 | | 2515592 | 1,2-Diphenylhydrazine | 91.8 | 55 | 120 |
| | 301892 | | 2515603 | 1,2-Diphenylhydrazine | 91.8 | 55 | 120 |
| | 301892 | | 2515592 | 1,3-Dinitrobenzene | 88 | 45 | 135 |
| | 301892 | | 2515603 | 1,3-Dinitrobenzene | 88 | 45 | 135 |
| | 301892 | | 2515603 | 2,4,5-Trichlorophenol | 83.2 | 60 | 120 |
| | 301892 | | 2515592 | 2,4,5-Trichlorophenol | 83.2 | 60 | 120 |
| | 301892 | | 2515592 | 2,4,6-Trichlorophenol | 85.5 | 52 | 120 |
| | 301892 | | 2515603 | 2,4,6-Trichlorophenol | 85.5 | 52 | 120 |
| | 301892 | | 2515592 | 2,4-Dichlorophenol | 84.8 | 59 | 120 |
| | 301892 | | 2515603 | 2,4-Dichlorophenol | 84.8 | 59 | 120 |
| | 301892 | | 2515603 | 2,4-Dimethylphenol | 91.5 | 41 | 120 |
| | 301892 | | 2515592 | 2,4-Dimethylphenol | 91.5 | 41 | 120 |
| | 301892 | | 2515603 | 2,4-Dinitrophenol | 76 | 30 | 136 |
| | 301892 | | 2515592 | 2,4-Dinitrophenol | 76 | 30 | 136 |
| | 301892 | | 2515603 | 2,4-Dinitrotoluene | 88.8 | 51 | 120 |
| | 301892 | | 2515592 | 2,4-Dinitrotoluene | 88.8 | 51 | 120 |
| | 301892 | | 2515592 | 2,6-Dinitrotoluene | 89 | 42 | 125 |
| | 301892 | | 2515603 | 2,6-Dinitrotoluene | 89 | 42 | 125 |
| | 301892 | | 2515592 | 2-Chloronaphthalene | 84.2 | 47 | 120 |
| | 301892 | | 2515603 | 2-Chloronaphthalene | 84.2 | 47 | 120 |
| | 301892 | | 2515592 | 2-Chlorophenol | 84 | 57 | 120 |
| | 301892 | | 2515603 | 2-Chlorophenol | 84 | 57 | 120 |
| | 301892 | | 2515592 | 2-Methylnaphthalene | 87 | 54 | 120 |
| | 301892 | | 2515603 | 2-Methylnaphthalene | 87 | 54 | 120 |
| | 301892 | | 2515592 | 2-Methylphenol | 81 | 50 | 120 |
| | 301892 | | 2515603 | 2-Methylphenol | 81 | 50 | 120 |
| | 301892 | | 2515603 | 2-Nitroaniline | 86.8 | 44 | 120 |
| | 301892 | | 2515592 | 2-Nitroaniline | 86.8 | 44 | 120 |
| | 301892 | | 2515603 | 2-Nitrophenol | 87 | 51 | 120 |
| | 301892 | | 2515592 | 2-Nitrophenol | 87 | 51 | 120 |
| | 301892 | | 2515603 | 3,3'-Dichlorobenzidine | 96.4 | 29 | 120 |
| | 301892 | | 2515592 | 3,3'-Dichlorobenzidine | 96.4 | 29 | 120 |
| | 301892 | | 2515592 | 3-Nitroaniline | 93 | 49 | 120 |
| | 301892 | | 2515603 | 3-Nitroaniline | 93 | 49 | 120 |
| | 301892 | | 2515603 | 4,6-Dinitro-2-methylphenol | 77 | 37 | 126 |
| | 301892 | | 2515592 | 4,6-Dinitro-2-methylphenol | 77 | 37 | 126 |
| | 301892 | | 2515603 | 4-Bromophenyl phenyl ether | 96 | 52 | 120 |
| | 301892 | | 2515592 | 4-Bromophenyl phenyl ether | 96 | 52 | 120 |
| | 301892 | | 2515603 | 4-Chloro-3-methylphenol | 87 | 63 | 120 |
| | 301892 | | 2515592 | 4-Chloro-3-methylphenol | 87 | 63 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301892 | WATER | 2515603 | 4-Chloroaniline | 95.2 | 52 | 120 |
| | 301892 | | 2515592 | 4-Chloroaniline | 95.2 | 52 | 120 |
| | 301892 | | 2515603 | 4-Chlorophenyl phenyl ether | 90.2 | 56 | 120 |
| | 301892 | | 2515592 | 4-Chlorophenyl phenyl ether | 90.2 | 56 | 120 |
| | 301892 | | 2515592 | **4-Methylphenol** | **150** | **37** | **110** |
| | 301892 | | 2515603 | **4-Methylphenol** | **150** | **37** | **110** |
| | 301892 | | 2515592 | 4-Nitroaniline | 112 | 67 | 120 |
| | 301892 | | 2515603 | 4-Nitroaniline | 112 | 67 | 120 |
| | 301892 | | 2515592 | **4-Nitrophenol** | **41** | **49** | **124** |
| | 301892 | | 2515603 | **4-Nitrophenol** | **41** | **49** | **124** |
| | 301892 | | 2515603 | Acenaphthene | 75.2 | 53 | 120 |
| | 301892 | | 2515592 | Acenaphthene | 75.2 | 53 | 120 |
| | 301892 | | 2515603 | Acenaphthylene | 75.2 | 54 | 120 |
| | 301892 | | 2515592 | Acenaphthylene | 75.2 | 54 | 120 |
| | 301892 | | 2515592 | Anthracene | 84 | 56 | 120 |
| | 301892 | | 2515603 | Anthracene | 84 | 56 | 120 |
| | 301892 | | 2515603 | Benzidine | 29.4 | 10 | 218 |
| | 301892 | | 2515592 | Benzidine | 29.4 | 10 | 218 |
| | 301892 | | 2515592 | Benzo (a) anthracene | 78.2 | 54 | 120 |
| | 301892 | | 2515603 | Benzo (a) anthracene | 78.2 | 54 | 120 |
| | 301892 | | 2515603 | Benzo (a) pyrene | 77.8 | 53 | 120 |
| | 301892 | | 2515592 | Benzo (a) pyrene | 77.8 | 53 | 120 |
| | 301892 | | 2515603 | Benzo (b) fluoranthene | 80.5 | 57 | 120 |
| | 301892 | | 2515592 | Benzo (b) fluoranthene | 80.5 | 57 | 120 |
| | 301892 | | 2515592 | Benzo (g,h,i) perylene | 93 | 53 | 120 |
| | 301892 | | 2515603 | Benzo (g,h,i) perylene | 93 | 53 | 120 |
| | 301892 | | 2515592 | Benzo (k) fluoranthene | 79.5 | 54 | 120 |
| | 301892 | | 2515603 | Benzo (k) fluoranthene | 79.5 | 54 | 120 |
| | 301892 | | 2515592 | Benzoic acid | 18.6 | 16 | 120 |
| | 301892 | | 2515603 | Benzoic acid | 18.6 | 16 | 120 |
| | 301892 | | 2515592 | Bis (2-chloroethoxy) methane | 100 | 52 | 120 |
| | 301892 | | 2515603 | Bis (2-chloroethoxy) methane | 100 | 52 | 120 |
| | 301892 | | 2515592 | Bis (2-chloroethyl) ether | 93.8 | 49 | 120 |
| | 301892 | | 2515603 | Bis (2-chloroethyl) ether | 93.8 | 49 | 120 |
| | 301892 | | 2515603 | Bis (2-ethylhexyl) phthalate | 106 | 48 | 120 |
| | 301892 | | 2515592 | Bis (2-ethylhexyl) phthalate | 106 | 48 | 120 |
| | 301892 | | 2515603 | Butyl benzylphthalate | 104 | 55 | 120 |
| | 301892 | | 2515592 | Butyl benzylphthalate | 104 | 55 | 120 |
| | 301892 | | 2515592 | Chrysene | 77 | 56 | 120 |
| | 301892 | | 2515603 | Chrysene | 77 | 56 | 120 |
| | 301892 | | 2515592 | Dibenzo (a,h) anthracene | 87.8 | 54 | 120 |
| | 301892 | | 2515603 | Dibenzo (a,h) anthracene | 87.8 | 54 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301892 | WATER | 2515592 | Dibenzofuran | 87.2 | 58 | 120 |
| | 301892 | | 2515603 | Dibenzofuran | 87.2 | 58 | 120 |
| | 301892 | | 2515592 | Diethyl phthalate | 92.8 | 61 | 120 |
| | 301892 | | 2515603 | Diethyl phthalate | 92.8 | 61 | 120 |
| | 301892 | | 2515592 | Dimethyl phthalate | 94 | 61 | 120 |
| | 301892 | | 2515603 | Dimethyl phthalate | 94 | 61 | 120 |
| | 301892 | | 2515592 | Di-n-butylphthalate | 96.2 | 52 | 120 |
| | 301892 | | 2515603 | Di-n-butylphthalate | 96.2 | 52 | 120 |
| | 301892 | | 2515592 | Di-n-octylphthalate | 110 | 47 | 120 |
| | 301892 | | 2515603 | Di-n-octylphthalate | 110 | 47 | 120 |
| | 301892 | | 2515592 | Fluoranthene | 80.5 | 64 | 120 |
| | 301892 | | 2515592 | Fluoranthene | 80.5 | 49 | 120 |
| | 301892 | | 2515603 | Fluoranthene | 80.5 | 49 | 120 |
| | 301892 | | 2515603 | Fluoranthene | 80.5 | 64 | 120 |
| | 301892 | | 2515592 | Fluorene | 75.2 | 57 | 120 |
| | 301892 | | 2515603 | Fluorene | 75.2 | 56 | 120 |
| | 301892 | | 2515603 | Fluorene | 75.2 | 57 | 120 |
| | 301892 | | 2515592 | Fluorene | 75.2 | 56 | 120 |
| | 301892 | | 2515603 | Hexachlorobenzene | 87.5 | 53 | 120 |
| | 301892 | | 2515592 | Hexachlorobenzene | 87.5 | 53 | 120 |
| | 301892 | | 2515592 | Hexachlorobutadiene | 82 | 40 | 120 |
| | 301892 | | 2515592 | Hexachlorobutadiene | 82 | 42 | 120 |
| | 301892 | | 2515603 | Hexachlorobutadiene | 82 | 40 | 120 |
| | 301892 | | 2515603 | Hexachlorobutadiene | 82 | 42 | 120 |
| | 301892 | | 2515603 | Hexachlorocyclopentadiene | 64.5 | 10 | 120 |
| | 301892 | | 2515592 | Hexachlorocyclopentadiene | 64.5 | 10 | 120 |
| | 301892 | | 2515603 | Hexachloroethane | 79 | 36 | 120 |
| | 301892 | | 2515592 | Hexachloroethane | 79 | 36 | 120 |
| | 301892 | | 2515603 | Indeno (1,2,3-c,d) pyrene | 83.5 | 56 | 120 |
| | 301892 | | 2515592 | Indeno (1,2,3-c,d) pyrene | 83.5 | 56 | 120 |
| | 301892 | | 2515603 | Naphthalene | 75.2 | 46 | 120 |
| | 301892 | | 2515592 | Naphthalene | 75.2 | 46 | 120 |
| | 301892 | | 2515592 | Nitrobenzene | 90 | 41 | 120 |
| | 301892 | | 2515603 | Nitrobenzene | 90 | 41 | 120 |
| | 301892 | | 2515592 | n-Nitrosodi-n-propylamine | 93.8 | 57 | 120 |
| | 301892 | | 2515603 | n-Nitrosodi-n-propylamine | 93.8 | 57 | 120 |
| | 301892 | | 2515603 | n-Nitrosodiphenylamine | 101 | 58 | 120 |
| | 301892 | | 2515592 | n-Nitrosodiphenylamine | 101 | 58 | 120 |
| | 301892 | | 2515603 | Pentachlorophenol | 78.8 | 52 | 120 |
| | 301892 | | 2515592 | Pentachlorophenol | 78.8 | 52 | 120 |
| | 301892 | | 2515603 | Phenanthrene | 76 | 57 | 120 |
| | 301892 | | 2515592 | Phenanthrene | 76 | 57 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 301892 | WATER | 2515603 | **Phenol** | **47.2** | **52** | **120** |
| | 301892 | | 2515592 | **Phenol** | **47.2** | **52** | **120** |
| | 301892 | | 2515592 | Pyrene | 77 | 62 | 130 |
| | 301892 | | 2515603 | Pyrene | 77 | 62 | 130 |
| | 302016 | | 2515619 | 1,2-Dichlorobenzene | 69.5 | 40 | 120 |
| | 302016 | | 2515638 | 1,2-Dichlorobenzene | 69.5 | 40 | 120 |
| | 302016 | | 2515619 | 1,2-Diphenylhydrazine | 78.8 | 55 | 120 |
| | 302016 | | 2515638 | 1,2-Diphenylhydrazine | 78.8 | 55 | 120 |
| | 302016 | | 2515619 | 1,3-Dinitrobenzene | 82.8 | 45 | 135 |
| | 302016 | | 2515638 | 1,3-Dinitrobenzene | 82.8 | 45 | 135 |
| | 302016 | | 2515619 | 2,4,5-Trichlorophenol | 72 | 60 | 120 |
| | 302016 | | 2515638 | 2,4,5-Trichlorophenol | 72 | 60 | 120 |
| | 302016 | | 2515619 | 2,4,6-Trichlorophenol | 73 | 52 | 120 |
| | 302016 | | 2515638 | 2,4,6-Trichlorophenol | 73 | 52 | 120 |
| | 302016 | | 2515619 | 2,4-Dichlorophenol | 74 | 59 | 120 |
| | 302016 | | 2515638 | 2,4-Dichlorophenol | 74 | 59 | 120 |
| | 302016 | | 2515619 | 2,4-Dimethylphenol | 79 | 41 | 120 |
| | 302016 | | 2515638 | 2,4-Dimethylphenol | 79 | 41 | 120 |
| | 302016 | | 2515619 | 2,4-Dinitrophenol | 77.8 | 30 | 136 |
| | 302016 | | 2515638 | 2,4-Dinitrophenol | 77.8 | 30 | 136 |
| | 302016 | | 2515638 | 2,4-Dinitrotoluene | 76 | 51 | 120 |
| | 302016 | | 2515619 | 2,4-Dinitrotoluene | 76 | 51 | 120 |
| | 302016 | | 2515638 | 2,6-Dinitrotoluene | 75.5 | 42 | 125 |
| | 302016 | | 2515619 | 2,6-Dinitrotoluene | 75.5 | 42 | 125 |
| | 302016 | | 2515638 | 2-Chloronaphthalene | 73 | 47 | 120 |
| | 302016 | | 2515619 | 2-Chloronaphthalene | 73 | 47 | 120 |
| | 302016 | | 2515638 | 2-Chlorophenol | 73.2 | 57 | 120 |
| | 302016 | | 2515619 | 2-Chlorophenol | 73.2 | 57 | 120 |
| | 302016 | | 2515638 | 2-Methylnaphthalene | 77 | 54 | 120 |
| | 302016 | | 2515619 | 2-Methylnaphthalene | 77 | 54 | 120 |
| | 302016 | | 2515619 | 2-Methylphenol | 71.8 | 50 | 120 |
| | 302016 | | 2515638 | 2-Methylphenol | 71.8 | 50 | 120 |
| | 302016 | | 2515619 | 2-Nitroaniline | 75.2 | 44 | 120 |
| | 302016 | | 2515638 | 2-Nitroaniline | 75.2 | 44 | 120 |
| | 302016 | | 2515619 | 2-Nitrophenol | 76 | 51 | 120 |
| | 302016 | | 2515638 | 2-Nitrophenol | 76 | 51 | 120 |
| | 302016 | | 2515619 | 3,3'-Dichlorobenzidine | 84.4 | 29 | 120 |
| | 302016 | | 2515638 | 3,3'-Dichlorobenzidine | 84.4 | 29 | 120 |
| | 302016 | | 2515619 | 3-Nitroaniline | 82.2 | 49 | 120 |
| | 302016 | | 2515638 | 3-Nitroaniline | 82.2 | 49 | 120 |
| | 302016 | | 2515619 | 4,6-Dinitro-2-methylphenol | 71.2 | 37 | 126 |
| | 302016 | | 2515638 | 4,6-Dinitro-2-methylphenol | 71.2 | 37 | 126 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302016 | WATER | 2515619 | 4-Bromophenyl phenyl ether | 86 | 52 | 120 |
| | 302016 | | 2515638 | 4-Bromophenyl phenyl ether | 86 | 52 | 120 |
| | 302016 | | 2515638 | 4-Chloro-3-methylphenol | 77.2 | 63 | 120 |
| | 302016 | | 2515619 | 4-Chloro-3-methylphenol | 77.2 | 63 | 120 |
| | 302016 | | 2515638 | 4-Chloroaniline | 83.5 | 52 | 120 |
| | 302016 | | 2515619 | 4-Chloroaniline | 83.5 | 52 | 120 |
| | 302016 | | 2515638 | 4-Chlorophenyl phenyl ether | 77.8 | 56 | 120 |
| | 302016 | | 2515619 | 4-Chlorophenyl phenyl ether | 77.8 | 56 | 120 |
| | 302016 | | 2515638 | **4-Methylphenol** | **144** | **37** | **110** |
| | 302016 | | 2515619 | **4-Methylphenol** | **144** | **37** | **110** |
| | 302016 | | 2515619 | 4-Nitroaniline | 93.5 | 67 | 120 |
| | 302016 | | 2515638 | 4-Nitroaniline | 93.5 | 67 | 120 |
| | 302016 | | 2515619 | **4-Nitrophenol** | **35** | **49** | **124** |
| | 302016 | | 2515638 | **4-Nitrophenol** | **35** | **49** | **124** |
| | 302016 | | 2515619 | Acenaphthene | 65.8 | 53 | 120 |
| | 302016 | | 2515638 | Acenaphthene | 65.8 | 53 | 120 |
| | 302016 | | 2515619 | Acenaphthylene | 66.8 | 54 | 120 |
| | 302016 | | 2515638 | Acenaphthylene | 66.8 | 54 | 120 |
| | 302016 | | 2515619 | Anthracene | 74.5 | 56 | 120 |
| | 302016 | | 2515638 | Anthracene | 74.5 | 56 | 120 |
| | 302016 | | 2515619 | Benzidine | 39.2 | 10 | 218 |
| | 302016 | | 2515638 | Benzidine | 39.2 | 10 | 218 |
| | 302016 | | 2515619 | Benzo (a) anthracene | 67.5 | 54 | 120 |
| | 302016 | | 2515638 | Benzo (a) anthracene | 67.5 | 54 | 120 |
| | 302016 | | 2515619 | Benzo (a) pyrene | 68.8 | 53 | 120 |
| | 302016 | | 2515638 | Benzo (a) pyrene | 68.8 | 53 | 120 |
| | 302016 | | 2515619 | Benzo (b) fluoranthene | 75.8 | 57 | 120 |
| | 302016 | | 2515638 | Benzo (b) fluoranthene | 75.8 | 57 | 120 |
| | 302016 | | 2515638 | Benzo (g,h,i) perylene | 76 | 53 | 120 |
| | 302016 | | 2515619 | Benzo (g,h,i) perylene | 76 | 53 | 120 |
| | 302016 | | 2515638 | Benzo (k) fluoranthene | 65.8 | 54 | 120 |
| | 302016 | | 2515619 | Benzo (k) fluoranthene | 65.8 | 54 | 120 |
| | 302016 | | 2515638 | Benzoic acid | 23.1 | 16 | 120 |
| | 302016 | | 2515619 | Benzoic acid | 23.1 | 16 | 120 |
| | 302016 | | 2515638 | Bis (2-chloroethoxy) methane | 90.2 | 52 | 120 |
| | 302016 | | 2515619 | Bis (2-chloroethoxy) methane | 90.2 | 52 | 120 |
| | 302016 | | 2515638 | Bis (2-chloroethyl) ether | 84.2 | 49 | 120 |
| | 302016 | | 2515619 | Bis (2-chloroethyl) ether | 84.2 | 49 | 120 |
| | 302016 | | 2515638 | Bis (2-ethylhexyl) phthalate | 90 | 48 | 120 |
| | 302016 | | 2515619 | Bis (2-ethylhexyl) phthalate | 90 | 48 | 120 |
| | 302016 | | 2515619 | Butyl benzylphthalate | 89.5 | 55 | 120 |
| | 302016 | | 2515638 | Butyl benzylphthalate | 89.5 | 55 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302016 | WATER | 2515638 | Chrysene | 67.8 | 56 | 120 |
| | 302016 | | 2515619 | Chrysene | 67.8 | 56 | 120 |
| | 302016 | | 2515619 | Dibenzo (a,h) anthracene | 73.2 | 54 | 120 |
| | 302016 | | 2515638 | Dibenzo (a,h) anthracene | 73.2 | 54 | 120 |
| | 302016 | | 2515619 | Dibenzofuran | 76.2 | 58 | 120 |
| | 302016 | | 2515638 | Dibenzofuran | 76.2 | 58 | 120 |
| | 302016 | | 2515619 | Diethyl phthalate | 80.8 | 61 | 120 |
| | 302016 | | 2515638 | Diethyl phthalate | 80.8 | 61 | 120 |
| | 302016 | | 2515638 | Dimethyl phthalate | 81.8 | 61 | 120 |
| | 302016 | | 2515619 | Dimethyl phthalate | 81.8 | 61 | 120 |
| | 302016 | | 2515619 | Di-n-butylphthalate | 84.2 | 52 | 120 |
| | 302016 | | 2515638 | Di-n-butylphthalate | 84.2 | 52 | 120 |
| | 302016 | | 2515619 | Di-n-octylphthalate | 91.5 | 47 | 120 |
| | 302016 | | 2515638 | Di-n-octylphthalate | 91.5 | 47 | 120 |
| | 302016 | | 2515638 | Fluoranthene | 70.2 | 64 | 120 |
| | 302016 | | 2515619 | Fluoranthene | 70.2 | 49 | 120 |
| | 302016 | | 2515619 | Fluoranthene | 70.2 | 64 | 120 |
| | 302016 | | 2515638 | Fluoranthene | 70.2 | 49 | 120 |
| | 302016 | | 2515638 | Fluorene | 64.8 | 56 | 120 |
| | 302016 | | 2515638 | Fluorene | 64.8 | 57 | 120 |
| | 302016 | | 2515619 | Fluorene | 64.8 | 56 | 120 |
| | 302016 | | 2515619 | Fluorene | 64.8 | 57 | 120 |
| | 302016 | | 2515638 | Hexachlorobenzene | 77.5 | 53 | 120 |
| | 302016 | | 2515619 | Hexachlorobenzene | 77.5 | 53 | 120 |
| | 302016 | | 2515619 | Hexachlorobutadiene | 70.5 | 40 | 120 |
| | 302016 | | 2515619 | Hexachlorobutadiene | 70.5 | 42 | 120 |
| | 302016 | | 2515638 | Hexachlorobutadiene | 70.5 | 42 | 120 |
| | 302016 | | 2515638 | Hexachlorobutadiene | 70.5 | 40 | 120 |
| | 302016 | | 2515638 | Hexachlorocyclopentadiene | 60.2 | 10 | 120 |
| | 302016 | | 2515619 | Hexachlorocyclopentadiene | 60.2 | 10 | 120 |
| | 302016 | | 2515619 | Hexachloroethane | 79 | 36 | 120 |
| | 302016 | | 2515638 | Hexachloroethane | 79 | 36 | 120 |
| | 302016 | | 2515638 | Indeno (1,2,3-c,d) pyrene | 69.5 | 56 | 120 |
| | 302016 | | 2515619 | Indeno (1,2,3-c,d) pyrene | 69.5 | 56 | 120 |
| | 302016 | | 2515619 | Naphthalene | 67 | 46 | 120 |
| | 302016 | | 2515638 | Naphthalene | 67 | 46 | 120 |
| | 302016 | | 2515638 | Nitrobenzene | 78.5 | 41 | 120 |
| | 302016 | | 2515619 | Nitrobenzene | 78.5 | 41 | 120 |
| | 302016 | | 2515619 | n-Nitrosodi-n-propylamine | 85.8 | 57 | 120 |
| | 302016 | | 2515638 | n-Nitrosodi-n-propylamine | 85.8 | 57 | 120 |
| | 302016 | | 2515638 | n-Nitrosodiphenylamine | 88.5 | 58 | 120 |
| | 302016 | | 2515619 | n-Nitrosodiphenylamine | 88.5 | 58 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302016 | WATER | 2515619 | Pentachlorophenol | 74.5 | 52 | 120 |
| | 302016 | | 2515638 | Pentachlorophenol | 74.5 | 52 | 120 |
| | 302016 | | 2515638 | Phenanthrene | 67.8 | 57 | 120 |
| | 302016 | | 2515619 | Phenanthrene | 67.8 | 57 | 120 |
| | 302016 | | 2515619 | **Phenol** | **44** | **52** | **120** |
| | 302016 | | 2515638 | **Phenol** | **44** | **52** | **120** |
| | 302016 | | 2515638 | Pyrene | 67.5 | 62 | 130 |
| | 302016 | | 2515619 | Pyrene | 67.5 | 62 | 130 |
| | 302017 | | 2515638 | 1,2-Dichlorobenzene | 72.5 | 40 | 120 |
| | 302017 | | 2515619 | 1,2-Dichlorobenzene | 72.5 | 40 | 120 |
| | 302017 | | 2515638 | 1,2-Diphenylhydrazine | 84 | 55 | 120 |
| | 302017 | | 2515619 | 1,2-Diphenylhydrazine | 84 | 55 | 120 |
| | 302017 | | 2515638 | 1,3-Dinitrobenzene | 90.2 | 45 | 135 |
| | 302017 | | 2515619 | 1,3-Dinitrobenzene | 90.2 | 45 | 135 |
| | 302017 | | 2515638 | 2,4,5-Trichlorophenol | 77 | 60 | 120 |
| | 302017 | | 2515619 | 2,4,5-Trichlorophenol | 77 | 60 | 120 |
| | 302017 | | 2515619 | 2,4,6-Trichlorophenol | 75.8 | 52 | 120 |
| | 302017 | | 2515638 | 2,4,6-Trichlorophenol | 75.8 | 52 | 120 |
| | 302017 | | 2515619 | 2,4-Dichlorophenol | 80 | 59 | 120 |
| | 302017 | | 2515638 | 2,4-Dichlorophenol | 80 | 59 | 120 |
| | 302017 | | 2515638 | 2,4-Dimethylphenol | 83.2 | 41 | 120 |
| | 302017 | | 2515619 | 2,4-Dimethylphenol | 83.2 | 41 | 120 |
| | 302017 | | 2515619 | 2,4-Dinitrophenol | 83.1 | 30 | 136 |
| | 302017 | | 2515638 | 2,4-Dinitrophenol | 83.1 | 30 | 136 |
| | 302017 | | 2515638 | 2,4-Dinitrotoluene | 81.8 | 51 | 120 |
| | 302017 | | 2515619 | 2,4-Dinitrotoluene | 81.8 | 51 | 120 |
| | 302017 | | 2515619 | 2,6-Dinitrotoluene | 79.8 | 42 | 125 |
| | 302017 | | 2515638 | 2,6-Dinitrotoluene | 79.8 | 42 | 125 |
| | 302017 | | 2515638 | 2-Chloronaphthalene | 77.5 | 47 | 120 |
| | 302017 | | 2515619 | 2-Chloronaphthalene | 77.5 | 47 | 120 |
| | 302017 | | 2515638 | 2-Chlorophenol | 75.5 | 57 | 120 |
| | 302017 | | 2515619 | 2-Chlorophenol | 75.5 | 57 | 120 |
| | 302017 | | 2515619 | 2-Methylnaphthalene | 80.2 | 54 | 120 |
| | 302017 | | 2515638 | 2-Methylnaphthalene | 80.2 | 54 | 120 |
| | 302017 | | 2515638 | 2-Methylphenol | 76.2 | 50 | 120 |
| | 302017 | | 2515619 | 2-Methylphenol | 76.2 | 50 | 120 |
| | 302017 | | 2515638 | 2-Nitroaniline | 79.5 | 44 | 120 |
| | 302017 | | 2515619 | 2-Nitroaniline | 79.5 | 44 | 120 |
| | 302017 | | 2515619 | 2-Nitrophenol | 79.5 | 51 | 120 |
| | 302017 | | 2515638 | 2-Nitrophenol | 79.5 | 51 | 120 |
| | 302017 | | 2515619 | 3,3'-Dichlorobenzidine | 86.4 | 29 | 120 |
| | 302017 | | 2515638 | 3,3'-Dichlorobenzidine | 86.4 | 29 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302017 | WATER | 2515638 | 3-Nitroaniline | 88.5 | 49 | 120 |
| | 302017 | | 2515619 | 3-Nitroaniline | 88.5 | 49 | 120 |
| | 302017 | | 2515619 | 4,6-Dinitro-2-methylphenol | 76.2 | 37 | 126 |
| | 302017 | | 2515638 | 4,6-Dinitro-2-methylphenol | 76.2 | 37 | 126 |
| | 302017 | | 2515619 | 4-Bromophenyl phenyl ether | 87 | 52 | 120 |
| | 302017 | | 2515638 | 4-Bromophenyl phenyl ether | 87 | 52 | 120 |
| | 302017 | | 2515619 | 4-Chloro-3-methylphenol | 81 | 63 | 120 |
| | 302017 | | 2515638 | 4-Chloro-3-methylphenol | 81 | 63 | 120 |
| | 302017 | | 2515619 | 4-Chloroaniline | 88 | 52 | 120 |
| | 302017 | | 2515638 | 4-Chloroaniline | 88 | 52 | 120 |
| | 302017 | | 2515619 | 4-Chlorophenyl phenyl ether | 82 | 56 | 120 |
| | 302017 | | 2515638 | 4-Chlorophenyl phenyl ether | 82 | 56 | 120 |
| | 302017 | | 2515619 | **4-Methylphenol** | **151** | **37** | **110** |
| | 302017 | | 2515638 | **4-Methylphenol** | **151** | **37** | **110** |
| | 302017 | | 2515619 | 4-Nitroaniline | 101 | 67 | 120 |
| | 302017 | | 2515638 | 4-Nitroaniline | 101 | 67 | 120 |
| | 302017 | | 2515638 | **4-Nitrophenol** | **38.8** | **49** | **124** |
| | 302017 | | 2515619 | **4-Nitrophenol** | **38.8** | **49** | **124** |
| | 302017 | | 2515619 | Acenaphthene | 69.8 | 53 | 120 |
| | 302017 | | 2515638 | Acenaphthene | 69.8 | 53 | 120 |
| | 302017 | | 2515638 | Acenaphthylene | 70.5 | 54 | 120 |
| | 302017 | | 2515619 | Acenaphthylene | 70.5 | 54 | 120 |
| | 302017 | | 2515638 | Anthracene | 76.5 | 56 | 120 |
| | 302017 | | 2515619 | Anthracene | 76.5 | 56 | 120 |
| | 302017 | | 2515619 | Benzidine | 28.9 | 10 | 218 |
| | 302017 | | 2515638 | Benzidine | 28.9 | 10 | 218 |
| | 302017 | | 2515619 | Benzo (a) anthracene | 69.8 | 54 | 120 |
| | 302017 | | 2515638 | Benzo (a) anthracene | 69.8 | 54 | 120 |
| | 302017 | | 2515638 | Benzo (a) pyrene | 70 | 53 | 120 |
| | 302017 | | 2515619 | Benzo (a) pyrene | 70 | 53 | 120 |
| | 302017 | | 2515638 | Benzo (b) fluoranthene | 76.5 | 57 | 120 |
| | 302017 | | 2515619 | Benzo (b) fluoranthene | 76.5 | 57 | 120 |
| | 302017 | | 2515619 | Benzo (g,h,i) perylene | 83.2 | 53 | 120 |
| | 302017 | | 2515638 | Benzo (g,h,i) perylene | 83.2 | 53 | 120 |
| | 302017 | | 2515638 | Benzo (k) fluoranthene | 66 | 54 | 120 |
| | 302017 | | 2515619 | Benzo (k) fluoranthene | 66 | 54 | 120 |
| | 302017 | | 2515638 | Benzoic acid | 17.8 | 16 | 120 |
| | 302017 | | 2515619 | Benzoic acid | 17.8 | 16 | 120 |
| | 302017 | | 2515638 | Bis (2-chloroethoxy) methane | 94.2 | 52 | 120 |
| | 302017 | | 2515619 | Bis (2-chloroethoxy) methane | 94.2 | 52 | 120 |
| | 302017 | | 2515619 | Bis (2-chloroethyl) ether | 86.2 | 49 | 120 |
| | 302017 | | 2515638 | Bis (2-chloroethyl) ether | 86.2 | 49 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302017 | WATER | 2515619 | **Bis (2-ethylhexyl) phthalate** | **123** | **48** | **120** |
| | 302017 | | 2515638 | **Bis (2-ethylhexyl) phthalate** | **123** | **48** | **120** |
| | 302017 | | 2515619 | Butyl benzylphthalate | 93.2 | 55 | 120 |
| | 302017 | | 2515638 | Butyl benzylphthalate | 93.2 | 55 | 120 |
| | 302017 | | 2515619 | Chrysene | 68.5 | 56 | 120 |
| | 302017 | | 2515638 | Chrysene | 68.5 | 56 | 120 |
| | 302017 | | 2515619 | Dibenzo (a,h) anthracene | 79 | 54 | 120 |
| | 302017 | | 2515638 | Dibenzo (a,h) anthracene | 79 | 54 | 120 |
| | 302017 | | 2515638 | Dibenzofuran | 80.8 | 58 | 120 |
| | 302017 | | 2515619 | Dibenzofuran | 80.8 | 58 | 120 |
| | 302017 | | 2515619 | Diethyl phthalate | 85 | 61 | 120 |
| | 302017 | | 2515638 | Diethyl phthalate | 85 | 61 | 120 |
| | 302017 | | 2515638 | Dimethyl phthalate | 86.5 | 61 | 120 |
| | 302017 | | 2515619 | Dimethyl phthalate | 86.5 | 61 | 120 |
| | 302017 | | 2515619 | Di-n-butylphthalate | 86.8 | 52 | 120 |
| | 302017 | | 2515638 | Di-n-butylphthalate | 86.8 | 52 | 120 |
| | 302017 | | 2515619 | **Di-n-octylphthalate** | **128** | **47** | **120** |
| | 302017 | | 2515638 | **Di-n-octylphthalate** | **128** | **47** | **120** |
| | 302017 | | 2515638 | Fluoranthene | 72.5 | 49 | 120 |
| | 302017 | | 2515619 | Fluoranthene | 72.5 | 64 | 120 |
| | 302017 | | 2515638 | Fluoranthene | 72.5 | 64 | 120 |
| | 302017 | | 2515619 | Fluoranthene | 72.5 | 49 | 120 |
| | 302017 | | 2515638 | Fluorene | 68.8 | 57 | 120 |
| | 302017 | | 2515619 | Fluorene | 68.8 | 56 | 120 |
| | 302017 | | 2515619 | Fluorene | 68.8 | 57 | 120 |
| | 302017 | | 2515638 | Fluorene | 68.8 | 56 | 120 |
| | 302017 | | 2515638 | Hexachlorobenzene | 79.2 | 53 | 120 |
| | 302017 | | 2515619 | Hexachlorobenzene | 79.2 | 53 | 120 |
| | 302017 | | 2515638 | Hexachlorobutadiene | 74.2 | 42 | 120 |
| | 302017 | | 2515619 | Hexachlorobutadiene | 74.2 | 42 | 120 |
| | 302017 | | 2515638 | Hexachlorobutadiene | 74.2 | 40 | 120 |
| | 302017 | | 2515619 | Hexachlorobutadiene | 74.2 | 40 | 120 |
| | 302017 | | 2515619 | Hexachlorocyclopentadiene | 64.2 | 10 | 120 |
| | 302017 | | 2515638 | Hexachlorocyclopentadiene | 64.2 | 10 | 120 |
| | 302017 | | 2515619 | Hexachloroethane | 83.2 | 36 | 120 |
| | 302017 | | 2515638 | Hexachloroethane | 83.2 | 36 | 120 |
| | 302017 | | 2515619 | Indeno (1,2,3-c,d) pyrene | 76.8 | 56 | 120 |
| | 302017 | | 2515638 | Indeno (1,2,3-c,d) pyrene | 76.8 | 56 | 120 |
| | 302017 | | 2515619 | Naphthalene | 69.5 | 46 | 120 |
| | 302017 | | 2515638 | Naphthalene | 69.5 | 46 | 120 |
| | 302017 | | 2515619 | Nitrobenzene | 83 | 41 | 120 |
| | 302017 | | 2515638 | Nitrobenzene | 83 | 41 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302017 | WATER | 2515619 | n-Nitrosodi-n-propylamine | 85.5 | 57 | 120 |
| | 302017 | | 2515638 | n-Nitrosodi-n-propylamine | 85.5 | 57 | 120 |
| | 302017 | | 2515619 | n-Nitrosodiphenylamine | 91.8 | 58 | 120 |
| | 302017 | | 2515638 | n-Nitrosodiphenylamine | 91.8 | 58 | 120 |
| | 302017 | | 2515638 | Pentachlorophenol | 79.2 | 52 | 120 |
| | 302017 | | 2515619 | Pentachlorophenol | 79.2 | 52 | 120 |
| | 302017 | | 2515638 | Phenanthrene | 70 | 57 | 120 |
| | 302017 | | 2515619 | Phenanthrene | 70 | 57 | 120 |
| | 302017 | | 2515638 | **Phenol** | **43.5** | **52** | **120** |
| | 302017 | | 2515619 | **Phenol** | **43.5** | **52** | **120** |
| | 302017 | | 2515638 | Pyrene | 69.8 | 62 | 130 |
| | 302017 | | 2515619 | Pyrene | 69.8 | 62 | 130 |
| | 302130 | | 2515679 | 1,2-Dichlorobenzene | 76.8 | 40 | 120 |
| | 302130 | | 2515679 | 1,2-Diphenylhydrazine | 94.5 | 55 | 120 |
| | 302130 | | 2515679 | 1,3-Dinitrobenzene | 96.2 | 45 | 135 |
| | 302130 | | 2515679 | 2,4,5-Trichlorophenol | 81.2 | 60 | 120 |
| | 302130 | | 2515679 | 2,4,6-Trichlorophenol | 82.5 | 52 | 120 |
| | 302130 | | 2515679 | 2,4-Dichlorophenol | 84.8 | 59 | 120 |
| | 302130 | | 2515679 | 2,4-Dimethylphenol | 89.8 | 41 | 120 |
| | 302130 | | 2515679 | 2,4-Dinitrophenol | 65.6 | 30 | 136 |
| | 302130 | | 2515679 | 2,4-Dinitrotoluene | 89 | 51 | 120 |
| | 302130 | | 2515679 | 2,6-Dinitrotoluene | 88.2 | 42 | 125 |
| | 302130 | | 2515679 | 2-Chloronaphthalene | 84 | 47 | 120 |
| | 302130 | | 2515679 | 2-Chlorophenol | 81.5 | 57 | 120 |
| | 302130 | | 2515679 | 2-Methylnaphthalene | 86.8 | 54 | 120 |
| | 302130 | | 2515679 | 2-Methylphenol | 81 | 50 | 120 |
| | 302130 | | 2515679 | 2-Nitroaniline | 90.8 | 44 | 120 |
| | 302130 | | 2515679 | 2-Nitrophenol | 85.2 | 51 | 120 |
| | 302130 | | 2515679 | 3,3'-Dichlorobenzidine | 94.8 | 29 | 120 |
| | 302130 | | 2515679 | 3-Nitroaniline | 96.5 | 49 | 120 |
| | 302130 | | 2515679 | 4,6-Dinitro-2-methylphenol | 70.2 | 37 | 126 |
| | 302130 | | 2515679 | 4-Bromophenyl phenyl ether | 96 | 52 | 120 |
| | 302130 | | 2515679 | 4-Chloro-3-methylphenol | 88.5 | 63 | 120 |
| | 302130 | | 2515679 | 4-Chloroaniline | 96.8 | 52 | 120 |
| | 302130 | | 2515679 | 4-Chlorophenyl phenyl ether | 89.8 | 56 | 120 |
| | 302130 | | 2515679 | **4-Methylphenol** | **164** | **37** | **110** |
| | 302130 | | 2515679 | 4-Nitroaniline | 110 | 67 | 120 |
| | 302130 | | 2515679 | **4-Nitrophenol** | **38** | **49** | **124** |
| | 302130 | | 2515679 | Acenaphthene | 76.5 | 53 | 120 |
| | 302130 | | 2515679 | Acenaphthylene | 76.8 | 54 | 120 |
| | 302130 | | 2515679 | Anthracene | 84.5 | 56 | 120 |
| | 302130 | | 2515679 | Benzidine | 52.2 | 10 | 218 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302130 | WATER | 2515679 | Benzo (a) anthracene | 76.5 | 54 | 120 |
| | 302130 | | 2515679 | Benzo (a) pyrene | 76.2 | 53 | 120 |
| | 302130 | | 2515679 | Benzo (b) fluoranthene | 80.2 | 57 | 120 |
| | 302130 | | 2515679 | Benzo (g,h,i) perylene | 63.5 | 53 | 120 |
| | 302130 | | 2515679 | Benzo (k) fluoranthene | 73.8 | 54 | 120 |
| | 302130 | | 2515679 | **Benzoic acid** | **12.9** | **16** | **120** |
| | 302130 | | 2515679 | Bis (2-chloroethoxy) methane | 103 | 52 | 120 |
| | 302130 | | 2515679 | Bis (2-chloroethyl) ether | 93 | 49 | 120 |
| | 302130 | | 2515679 | Bis (2-ethylhexyl) phthalate | 104 | 48 | 120 |
| | 302130 | | 2515679 | Butyl benzylphthalate | 102 | 55 | 120 |
| | 302130 | | 2515679 | Chrysene | 74.8 | 56 | 120 |
| | 302130 | | 2515679 | Dibenzo (a,h) anthracene | 71.8 | 54 | 120 |
| | 302130 | | 2515679 | Dibenzofuran | 87.8 | 58 | 120 |
| | 302130 | | 2515679 | Diethyl phthalate | 94 | 61 | 120 |
| | 302130 | | 2515679 | Dimethyl phthalate | 94.8 | 61 | 120 |
| | 302130 | | 2515679 | Di-n-butylphthalate | 97.5 | 52 | 120 |
| | 302130 | | 2515679 | Di-n-octylphthalate | 104 | 47 | 120 |
| | 302130 | | 2515679 | Fluoranthene | 79.2 | 49 | 120 |
| | 302130 | | 2515679 | Fluoranthene | 79.2 | 64 | 120 |
| | 302130 | | 2515679 | Fluorene | 75 | 57 | 120 |
| | 302130 | | 2515679 | Fluorene | 75 | 56 | 120 |
| | 302130 | | 2515679 | Hexachlorobenzene | 86 | 53 | 120 |
| | 302130 | | 2515679 | Hexachlorobutadiene | 80.5 | 40 | 120 |
| | 302130 | | 2515679 | Hexachlorobutadiene | 80.5 | 42 | 120 |
| | 302130 | | 2515679 | Hexachlorocyclopentadiene | 72.2 | 10 | 120 |
| | 302130 | | 2515679 | Hexachloroethane | 76.8 | 36 | 120 |
| | 302130 | | 2515679 | Indeno (1,2,3-c,d) pyrene | 70.5 | 56 | 120 |
| | 302130 | | 2515679 | Naphthalene | 75.8 | 46 | 120 |
| | 302130 | | 2515679 | Nitrobenzene | 92.2 | 41 | 120 |
| | 302130 | | 2515679 | n-Nitrosodi-n-propylamine | 95.5 | 57 | 120 |
| | 302130 | | 2515679 | n-Nitrosodiphenylamine | 100 | 58 | 120 |
| | 302130 | | 2515679 | Pentachlorophenol | 56 | 52 | 120 |
| | 302130 | | 2515679 | Phenanthrene | 76.8 | 57 | 120 |
| | 302130 | | 2515679 | **Phenol** | **47.2** | **52** | **120** |
| | 302130 | | 2515679 | Pyrene | 76 | 62 | 130 |
| | 302131 | | 2515679 | 1,2-Dichlorobenzene | 84.8 | 40 | 120 |
| | 302131 | | 2515679 | 1,2-Diphenylhydrazine | 100 | 55 | 120 |
| | 302131 | | 2515679 | 1,3-Dinitrobenzene | 102 | 45 | 135 |
| | 302131 | | 2515679 | 2,4,5-Trichlorophenol | 88.2 | 60 | 120 |
| | 302131 | | 2515679 | 2,4,6-Trichlorophenol | 89.8 | 52 | 120 |
| | 302131 | | 2515679 | 2,4-Dichlorophenol | 90.2 | 59 | 120 |
| | 302131 | | 2515679 | 2,4-Dimethylphenol | 95.8 | 41 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302131 | WATER | 2515679 | 2,4-Dinitrophenol | 77.8 | 30 | 136 |
| | 302131 | | 2515679 | 2,4-Dinitrotoluene | 96.2 | 51 | 120 |
| | 302131 | | 2515679 | 2,6-Dinitrotoluene | 93.8 | 42 | 125 |
| | 302131 | | 2515679 | 2-Chloronaphthalene | 91 | 47 | 120 |
| | 302131 | | 2515679 | 2-Chlorophenol | 86.8 | 57 | 120 |
| | 302131 | | 2515679 | 2-Methylnaphthalene | 92.2 | 54 | 120 |
| | 302131 | | 2515679 | 2-Methylphenol | 85.2 | 50 | 120 |
| | 302131 | | 2515679 | 2-Nitroaniline | 95.8 | 44 | 120 |
| | 302131 | | 2515679 | 2-Nitrophenol | 92 | 51 | 120 |
| | 302131 | | 2515679 | 3,3'-Dichlorobenzidine | 103 | 29 | 120 |
| | 302131 | | 2515679 | 3-Nitroaniline | 103 | 49 | 120 |
| | 302131 | | 2515679 | 4,6-Dinitro-2-methylphenol | 76.8 | 37 | 126 |
| | 302131 | | 2515679 | 4-Bromophenyl phenyl ether | 102 | 52 | 120 |
| | 302131 | | 2515679 | 4-Chloro-3-methylphenol | 91.5 | 63 | 120 |
| | 302131 | | 2515679 | 4-Chloroaniline | 103 | 52 | 120 |
| | 302131 | | 2515679 | 4-Chlorophenyl phenyl ether | 97.2 | 56 | 120 |
| | 302131 | | 2515679 | **4-Methylphenol** | **170** | **37** | **110** |
| | 302131 | | 2515679 | 4-Nitroaniline | 118 | 67 | 120 |
| | 302131 | | 2515679 | **4-Nitrophenol** | **38.8** | **49** | **124** |
| | 302131 | | 2515679 | Acenaphthene | 81.5 | 53 | 120 |
| | 302131 | | 2515679 | Acenaphthylene | 83.2 | 54 | 120 |
| | 302131 | | 2515679 | Anthracene | 89.5 | 56 | 120 |
| | 302131 | | 2515679 | Benzidine | 54.4 | 10 | 218 |
| | 302131 | | 2515679 | Benzo (a) anthracene | 82.2 | 54 | 120 |
| | 302131 | | 2515679 | Benzo (a) pyrene | 84.5 | 53 | 120 |
| | 302131 | | 2515679 | Benzo (b) fluoranthene | 88.5 | 57 | 120 |
| | 302131 | | 2515679 | Benzo (g,h,i) perylene | 69.2 | 53 | 120 |
| | 302131 | | 2515679 | Benzo (k) fluoranthene | 76 | 54 | 120 |
| | 302131 | | 2515679 | Benzoic acid | 20.6 | 16 | 120 |
| | 302131 | | 2515679 | Bis (2-chloroethoxy) methane | 106 | 52 | 120 |
| | 302131 | | 2515679 | Bis (2-chloroethyl) ether | 100 | 49 | 120 |
| | 302131 | | 2515679 | Bis (2-ethylhexyl) phthalate | 112 | 48 | 120 |
| | 302131 | | 2515679 | Butyl benzylphthalate | 112 | 55 | 120 |
| | 302131 | | 2515679 | Chrysene | 82.2 | 56 | 120 |
| | 302131 | | 2515679 | Dibenzo (a,h) anthracene | 78.2 | 54 | 120 |
| | 302131 | | 2515679 | Dibenzofuran | 94.5 | 58 | 120 |
| | 302131 | | 2515679 | Diethyl phthalate | 102 | 61 | 120 |
| | 302131 | | 2515679 | Dimethyl phthalate | 102 | 61 | 120 |
| | 302131 | | 2515679 | Di-n-butylphthalate | 106 | 52 | 120 |
| | 302131 | | 2515679 | Di-n-octylphthalate | 114 | 47 | 120 |
| | 302131 | | 2515679 | Fluoranthene | 84 | 64 | 120 |
| | 302131 | | 2515679 | Fluoranthene | 84 | 49 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302131 | WATER | 2515679 | Fluorene | 80.8 | 56 | 120 |
| | 302131 | | 2515679 | Fluorene | 80.8 | 57 | 120 |
| | 302131 | | 2515679 | Hexachlorobenzene | 92.8 | 53 | 120 |
| | 302131 | | 2515679 | Hexachlorobutadiene | 87.8 | 42 | 120 |
| | 302131 | | 2515679 | Hexachlorobutadiene | 87.8 | 40 | 120 |
| | 302131 | | 2515679 | Hexachlorocyclopentadiene | 79.5 | 10 | 120 |
| | 302131 | | 2515679 | Hexachloroethane | 84.8 | 36 | 120 |
| | 302131 | | 2515679 | Indeno (1,2,3-c,d) pyrene | 78 | 56 | 120 |
| | 302131 | | 2515679 | Naphthalene | 80.5 | 46 | 120 |
| | 302131 | | 2515679 | Nitrobenzene | 97.5 | 41 | 120 |
| | 302131 | | 2515679 | n-Nitrosodi-n-propylamine | 101 | 57 | 120 |
| | 302131 | | 2515679 | n-Nitrosodiphenylamine | 108 | 58 | 120 |
| | 302131 | | 2515679 | Pentachlorophenol | 63.8 | 52 | 120 |
| | 302131 | | 2515679 | Phenanthrene | 82 | 57 | 120 |
| | 302131 | | 2515679 | **Phenol** | **49.8** | **52** | **120** |
| | 302131 | | 2515679 | Pyrene | 82.2 | 62 | 130 |
| | 302142 | | 2515690 | 1,2-Dichlorobenzene | 74.2 | 40 | 120 |
| | 302142 | | 2515691 | 1,2-Dichlorobenzene | 74.2 | 40 | 120 |
| | 302142 | | 2515691 | 1,2-Diphenylhydrazine | 89 | 55 | 120 |
| | 302142 | | 2515690 | 1,2-Diphenylhydrazine | 89 | 55 | 120 |
| | 302142 | | 2515691 | 1,3-Dinitrobenzene | 93.5 | 45 | 135 |
| | 302142 | | 2515690 | 1,3-Dinitrobenzene | 93.5 | 45 | 135 |
| | 302142 | | 2515691 | 2,4,5-Trichlorophenol | 77.5 | 60 | 120 |
| | 302142 | | 2515690 | 2,4,5-Trichlorophenol | 77.5 | 60 | 120 |
| | 302142 | | 2515691 | 2,4,6-Trichlorophenol | 77.8 | 52 | 120 |
| | 302142 | | 2515690 | 2,4,6-Trichlorophenol | 77.8 | 52 | 120 |
| | 302142 | | 2515691 | 2,4-Dichlorophenol | 81.5 | 59 | 120 |
| | 302142 | | 2515690 | 2,4-Dichlorophenol | 81.5 | 59 | 120 |
| | 302142 | | 2515691 | 2,4-Dimethylphenol | 86.8 | 41 | 120 |
| | 302142 | | 2515690 | 2,4-Dimethylphenol | 86.8 | 41 | 120 |
| | 302142 | | 2515691 | 2,4-Dinitrophenol | 68.9 | 30 | 136 |
| | 302142 | | 2515690 | 2,4-Dinitrophenol | 68.9 | 30 | 136 |
| | 302142 | | 2515691 | 2,4-Dinitrotoluene | 84.8 | 51 | 120 |
| | 302142 | | 2515690 | 2,4-Dinitrotoluene | 84.8 | 51 | 120 |
| | 302142 | | 2515691 | 2,6-Dinitrotoluene | 83.2 | 42 | 125 |
| | 302142 | | 2515690 | 2,6-Dinitrotoluene | 83.2 | 42 | 125 |
| | 302142 | | 2515690 | 2-Chloronaphthalene | 78 | 47 | 120 |
| | 302142 | | 2515691 | 2-Chloronaphthalene | 78 | 47 | 120 |
| | 302142 | | 2515690 | 2-Chlorophenol | 77.5 | 57 | 120 |
| | 302142 | | 2515691 | 2-Chlorophenol | 77.5 | 57 | 120 |
| | 302142 | | 2515690 | 2-Methylnaphthalene | 81.2 | 54 | 120 |
| | 302142 | | 2515691 | 2-Methylnaphthalene | 81.2 | 54 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302142 | WATER | 2515690 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 302142 | | 2515691 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 302142 | | 2515691 | 2-Nitroaniline | 85.5 | 44 | 120 |
| | 302142 | | 2515690 | 2-Nitroaniline | 85.5 | 44 | 120 |
| | 302142 | | 2515691 | 2-Nitrophenol | 81.5 | 51 | 120 |
| | 302142 | | 2515690 | 2-Nitrophenol | 81.5 | 51 | 120 |
| | 302142 | | 2515690 | 3,3'-Dichlorobenzidine | 90.9 | 29 | 120 |
| | 302142 | | 2515691 | 3,3'-Dichlorobenzidine | 90.9 | 29 | 120 |
| | 302142 | | 2515691 | 3-Nitroaniline | 92.8 | 49 | 120 |
| | 302142 | | 2515690 | 3-Nitroaniline | 92.8 | 49 | 120 |
| | 302142 | | 2515691 | 4,6-Dinitro-2-methylphenol | 73 | 37 | 126 |
| | 302142 | | 2515690 | 4,6-Dinitro-2-methylphenol | 73 | 37 | 126 |
| | 302142 | | 2515691 | 4-Bromophenyl phenyl ether | 90.8 | 52 | 120 |
| | 302142 | | 2515690 | 4-Bromophenyl phenyl ether | 90.8 | 52 | 120 |
| | 302142 | | 2515691 | 4-Chloro-3-methylphenol | 83 | 63 | 120 |
| | 302142 | | 2515690 | 4-Chloro-3-methylphenol | 83 | 63 | 120 |
| | 302142 | | 2515690 | 4-Chloroaniline | 92.2 | 52 | 120 |
| | 302142 | | 2515691 | 4-Chloroaniline | 92.2 | 52 | 120 |
| | 302142 | | 2515691 | 4-Chlorophenyl phenyl ether | 85 | 56 | 120 |
| | 302142 | | 2515690 | 4-Chlorophenyl phenyl ether | 85 | 56 | 120 |
| | 302142 | | 2515691 | **4-Methylphenol** | **158** | **37** | **110** |
| | 302142 | | 2515690 | **4-Methylphenol** | **158** | **37** | **110** |
| | 302142 | | 2515691 | 4-Nitroaniline | 104 | 67 | 120 |
| | 302142 | | 2515690 | 4-Nitroaniline | 104 | 67 | 120 |
| | 302142 | | 2515690 | **4-Nitrophenol** | **36.5** | **49** | **124** |
| | 302142 | | 2515691 | **4-Nitrophenol** | **36.5** | **49** | **124** |
| | 302142 | | 2515690 | Acenaphthene | 71.5 | 53 | 120 |
| | 302142 | | 2515691 | Acenaphthene | 71.5 | 53 | 120 |
| | 302142 | | 2515691 | Acenaphthylene | 72.5 | 54 | 120 |
| | 302142 | | 2515690 | Acenaphthylene | 72.5 | 54 | 120 |
| | 302142 | | 2515691 | Anthracene | 80.8 | 56 | 120 |
| | 302142 | | 2515690 | Anthracene | 80.8 | 56 | 120 |
| | 302142 | | 2515691 | Benzidine | 45.9 | 10 | 218 |
| | 302142 | | 2515690 | Benzidine | 45.9 | 10 | 218 |
| | 302142 | | 2515690 | Benzo (a) anthracene | 73 | 54 | 120 |
| | 302142 | | 2515691 | Benzo (a) anthracene | 73 | 54 | 120 |
| | 302142 | | 2515691 | Benzo (a) pyrene | 74 | 53 | 120 |
| | 302142 | | 2515690 | Benzo (a) pyrene | 74 | 53 | 120 |
| | 302142 | | 2515691 | Benzo (b) fluoranthene | 77.5 | 57 | 120 |
| | 302142 | | 2515690 | Benzo (b) fluoranthene | 77.5 | 57 | 120 |
| | 302142 | | 2515690 | Benzo (g,h,i) perylene | 57.2 | 53 | 120 |
| | 302142 | | 2515691 | Benzo (g,h,i) perylene | 57.2 | 53 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302142 | WATER | 2515690 | Benzo (k) fluoranthene | 70.8 | 54 | 120 |
| | 302142 | | 2515691 | Benzo (k) fluoranthene | 70.8 | 54 | 120 |
| | 302142 | | 2515690 | **Benzoic acid** | **15.4** | **16** | **120** |
| | 302142 | | 2515691 | **Benzoic acid** | **15.4** | **16** | **120** |
| | 302142 | | 2515691 | Bis (2-chloroethoxy) methane | 98.8 | 52 | 120 |
| | 302142 | | 2515690 | Bis (2-chloroethoxy) methane | 98.8 | 52 | 120 |
| | 302142 | | 2515691 | Bis (2-chloroethyl) ether | 89 | 49 | 120 |
| | 302142 | | 2515690 | Bis (2-chloroethyl) ether | 89 | 49 | 120 |
| | 302142 | | 2515691 | Bis (2-ethylhexyl) phthalate | 98.8 | 48 | 120 |
| | 302142 | | 2515690 | Bis (2-ethylhexyl) phthalate | 98.8 | 48 | 120 |
| | 302142 | | 2515691 | Butyl benzylphthalate | 98.2 | 55 | 120 |
| | 302142 | | 2515690 | Butyl benzylphthalate | 98.2 | 55 | 120 |
| | 302142 | | 2515691 | Chrysene | 72 | 56 | 120 |
| | 302142 | | 2515690 | Chrysene | 72 | 56 | 120 |
| | 302142 | | 2515691 | Dibenzo (a,h) anthracene | 66 | 54 | 120 |
| | 302142 | | 2515690 | Dibenzo (a,h) anthracene | 66 | 54 | 120 |
| | 302142 | | 2515691 | Dibenzofuran | 83.5 | 58 | 120 |
| | 302142 | | 2515690 | Dibenzofuran | 83.5 | 58 | 120 |
| | 302142 | | 2515690 | Diethyl phthalate | 88.8 | 61 | 120 |
| | 302142 | | 2515691 | Diethyl phthalate | 88.8 | 61 | 120 |
| | 302142 | | 2515690 | Dimethyl phthalate | 89.8 | 61 | 120 |
| | 302142 | | 2515691 | Dimethyl phthalate | 89.8 | 61 | 120 |
| | 302142 | | 2515691 | Di-n-butylphthalate | 92.5 | 52 | 120 |
| | 302142 | | 2515690 | Di-n-butylphthalate | 92.5 | 52 | 120 |
| | 302142 | | 2515691 | Di-n-octylphthalate | 100 | 47 | 120 |
| | 302142 | | 2515690 | Di-n-octylphthalate | 100 | 47 | 120 |
| | 302142 | | 2515691 | Fluoranthene | 75 | 64 | 120 |
| | 302142 | | 2515690 | Fluoranthene | 75 | 49 | 120 |
| | 302142 | | 2515691 | Fluoranthene | 75 | 49 | 120 |
| | 302142 | | 2515690 | Fluoranthene | 75 | 64 | 120 |
| | 302142 | | 2515690 | Fluorene | 72.5 | 56 | 120 |
| | 302142 | | 2515690 | Fluorene | 72.5 | 57 | 120 |
| | 302142 | | 2515691 | Fluorene | 72.5 | 57 | 120 |
| | 302142 | | 2515691 | Fluorene | 72.5 | 56 | 120 |
| | 302142 | | 2515690 | Hexachlorobenzene | 81.8 | 53 | 120 |
| | 302142 | | 2515691 | Hexachlorobenzene | 81.8 | 53 | 120 |
| | 302142 | | 2515691 | Hexachlorobutadiene | 73.8 | 40 | 120 |
| | 302142 | | 2515691 | Hexachlorobutadiene | 73.8 | 42 | 120 |
| | 302142 | | 2515690 | Hexachlorobutadiene | 73.8 | 42 | 120 |
| | 302142 | | 2515690 | Hexachlorobutadiene | 73.8 | 40 | 120 |
| | 302142 | | 2515691 | Hexachlorocyclopentadiene | 61.2 | 10 | 120 |
| | 302142 | | 2515690 | Hexachlorocyclopentadiene | 61.2 | 10 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302142 | WATER | 2515691 | Hexachloroethane | 71.8 | 36 | 120 |
| | 302142 | | 2515690 | Hexachloroethane | 71.8 | 36 | 120 |
| | 302142 | | 2515691 | Indeno (1,2,3-c,d) pyrene | 64.5 | 56 | 120 |
| | 302142 | | 2515690 | Indeno (1,2,3-c,d) pyrene | 64.5 | 56 | 120 |
| | 302142 | | 2515690 | Naphthalene | 73 | 46 | 120 |
| | 302142 | | 2515691 | Naphthalene | 73 | 46 | 120 |
| | 302142 | | 2515691 | Nitrobenzene | 86.8 | 41 | 120 |
| | 302142 | | 2515690 | Nitrobenzene | 86.8 | 41 | 120 |
| | 302142 | | 2515691 | n-Nitrosodi-n-propylamine | 90.5 | 57 | 120 |
| | 302142 | | 2515690 | n-Nitrosodi-n-propylamine | 90.5 | 57 | 120 |
| | 302142 | | 2515691 | n-Nitrosodiphenylamine | 95.8 | 58 | 120 |
| | 302142 | | 2515690 | n-Nitrosodiphenylamine | 95.8 | 58 | 120 |
| | 302142 | | 2515691 | Pentachlorophenol | 66.2 | 52 | 120 |
| | 302142 | | 2515690 | Pentachlorophenol | 66.2 | 52 | 120 |
| | 302142 | | 2515691 | Phenanthrene | 73.8 | 57 | 120 |
| | 302142 | | 2515690 | Phenanthrene | 73.8 | 57 | 120 |
| | 302142 | | 2515691 | **Phenol** | **46.2** | **52** | **120** |
| | 302142 | | 2515690 | **Phenol** | **46.2** | **52** | **120** |
| | 302142 | | 2515691 | Pyrene | 72.8 | 62 | 130 |
| | 302142 | | 2515690 | Pyrene | 72.8 | 62 | 130 |
| | 302230 | | 2515707 | 1,2-Dichlorobenzene | 66.5 | 40 | 120 |
| | 302230 | | 2515736 | 1,2-Dichlorobenzene | 66.5 | 40 | 120 |
| | 302230 | | 2515725 | 1,2-Dichlorobenzene | 66.5 | 40 | 120 |
| | 302230 | | 2515707 | 1,2-Diphenylhydrazine | 82.2 | 55 | 120 |
| | 302230 | | 2515736 | 1,2-Diphenylhydrazine | 82.2 | 55 | 120 |
| | 302230 | | 2515725 | 1,2-Diphenylhydrazine | 82.2 | 55 | 120 |
| | 302230 | | 2515707 | 1,3-Dinitrobenzene | 87.2 | 45 | 135 |
| | 302230 | | 2515725 | 1,3-Dinitrobenzene | 87.2 | 45 | 135 |
| | 302230 | | 2515736 | 1,3-Dinitrobenzene | 87.2 | 45 | 135 |
| | 302230 | | 2515707 | 2,4,5-Trichlorophenol | 76.2 | 60 | 120 |
| | 302230 | | 2515736 | 2,4,5-Trichlorophenol | 76.2 | 60 | 120 |
| | 302230 | | 2515725 | 2,4,5-Trichlorophenol | 76.2 | 60 | 120 |
| | 302230 | | 2515707 | 2,4,6-Trichlorophenol | 77.8 | 52 | 120 |
| | 302230 | | 2515725 | 2,4,6-Trichlorophenol | 77.8 | 52 | 120 |
| | 302230 | | 2515736 | 2,4,6-Trichlorophenol | 77.8 | 52 | 120 |
| | 302230 | | 2515707 | 2,4-Dichlorophenol | 75.2 | 59 | 120 |
| | 302230 | | 2515725 | 2,4-Dichlorophenol | 75.2 | 59 | 120 |
| | 302230 | | 2515736 | 2,4-Dichlorophenol | 75.2 | 59 | 120 |
| | 302230 | | 2515707 | 2,4-Dimethylphenol | 88.5 | 41 | 120 |
| | 302230 | | 2515725 | 2,4-Dimethylphenol | 88.5 | 41 | 120 |
| | 302230 | | 2515736 | 2,4-Dimethylphenol | 88.5 | 41 | 120 |
| | 302230 | | 2515707 | 2,4-Dinitrophenol | 80.6 | 30 | 136 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302230 | WATER | 2515725 | 2,4-Dinitrophenol | 80.6 | 30 | 136 |
| | 302230 | | 2515736 | 2,4-Dinitrophenol | 80.6 | 30 | 136 |
| | 302230 | | 2515707 | 2,4-Dinitrotoluene | 83.2 | 51 | 120 |
| | 302230 | | 2515725 | 2,4-Dinitrotoluene | 83.2 | 51 | 120 |
| | 302230 | | 2515736 | 2,4-Dinitrotoluene | 83.2 | 51 | 120 |
| | 302230 | | 2515707 | 2,6-Dinitrotoluene | 81 | 42 | 125 |
| | 302230 | | 2515736 | 2,6-Dinitrotoluene | 81 | 42 | 125 |
| | 302230 | | 2515725 | 2,6-Dinitrotoluene | 81 | 42 | 125 |
| | 302230 | | 2515707 | 2-Chloronaphthalene | 77.2 | 47 | 120 |
| | 302230 | | 2515736 | 2-Chloronaphthalene | 77.2 | 47 | 120 |
| | 302230 | | 2515725 | 2-Chloronaphthalene | 77.2 | 47 | 120 |
| | 302230 | | 2515707 | 2-Chlorophenol | 73.8 | 57 | 120 |
| | 302230 | | 2515725 | 2-Chlorophenol | 73.8 | 57 | 120 |
| | 302230 | | 2515736 | 2-Chlorophenol | 73.8 | 57 | 120 |
| | 302230 | | 2515707 | 2-Methylnaphthalene | 78.5 | 54 | 120 |
| | 302230 | | 2515725 | 2-Methylnaphthalene | 78.5 | 54 | 120 |
| | 302230 | | 2515736 | 2-Methylnaphthalene | 78.5 | 54 | 120 |
| | 302230 | | 2515707 | 2-Methylphenol | 74.5 | 50 | 120 |
| | 302230 | | 2515736 | 2-Methylphenol | 74.5 | 50 | 120 |
| | 302230 | | 2515725 | 2-Methylphenol | 74.5 | 50 | 120 |
| | 302230 | | 2515707 | 2-Nitroaniline | 81 | 44 | 120 |
| | 302230 | | 2515725 | 2-Nitroaniline | 81 | 44 | 120 |
| | 302230 | | 2515736 | 2-Nitroaniline | 81 | 44 | 120 |
| | 302230 | | 2515707 | 2-Nitrophenol | 76.2 | 51 | 120 |
| | 302230 | | 2515725 | 2-Nitrophenol | 76.2 | 51 | 120 |
| | 302230 | | 2515736 | 2-Nitrophenol | 76.2 | 51 | 120 |
| | 302230 | | 2515707 | 3,3'-Dichlorobenzidine | 96.2 | 29 | 120 |
| | 302230 | | 2515736 | 3,3'-Dichlorobenzidine | 96.2 | 29 | 120 |
| | 302230 | | 2515725 | 3,3'-Dichlorobenzidine | 96.2 | 29 | 120 |
| | 302230 | | 2515707 | 3-Nitroaniline | 88.2 | 49 | 120 |
| | 302230 | | 2515725 | 3-Nitroaniline | 88.2 | 49 | 120 |
| | 302230 | | 2515736 | 3-Nitroaniline | 88.2 | 49 | 120 |
| | 302230 | | 2515707 | 4,6-Dinitro-2-methylphenol | 78.5 | 37 | 126 |
| | 302230 | | 2515725 | 4,6-Dinitro-2-methylphenol | 78.5 | 37 | 126 |
| | 302230 | | 2515736 | 4,6-Dinitro-2-methylphenol | 78.5 | 37 | 126 |
| | 302230 | | 2515707 | 4-Bromophenyl phenyl ether | 89 | 52 | 120 |
| | 302230 | | 2515736 | 4-Bromophenyl phenyl ether | 89 | 52 | 120 |
| | 302230 | | 2515725 | 4-Bromophenyl phenyl ether | 89 | 52 | 120 |
| | 302230 | | 2515707 | 4-Chloro-3-methylphenol | 77.2 | 63 | 120 |
| | 302230 | | 2515736 | 4-Chloro-3-methylphenol | 77.2 | 63 | 120 |
| | 302230 | | 2515725 | 4-Chloro-3-methylphenol | 77.2 | 63 | 120 |
| | 302230 | | 2515707 | 4-Chloroaniline | 85.8 | 52 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302230 | WATER | 2515725 | 4-Chloroaniline | 85.8 | 52 | 120 |
| | 302230 | | 2515736 | 4-Chloroaniline | 85.8 | 52 | 120 |
| | 302230 | | 2515707 | 4-Chlorophenyl phenyl ether | 84.2 | 56 | 120 |
| | 302230 | | 2515725 | 4-Chlorophenyl phenyl ether | 84.2 | 56 | 120 |
| | 302230 | | 2515736 | 4-Chlorophenyl phenyl ether | 84.2 | 56 | 120 |
| | 302230 | | 2515707 | 4-Methylphenol | 70.8 | 37 | 110 |
| | 302230 | | 2515725 | 4-Methylphenol | 70.8 | 37 | 110 |
| | 302230 | | 2515736 | 4-Methylphenol | 70.8 | 37 | 110 |
| | 302230 | | 2515707 | 4-Nitroaniline | 91.5 | 67 | 120 |
| | 302230 | | 2515725 | 4-Nitroaniline | 91.5 | 67 | 120 |
| | 302230 | | 2515736 | 4-Nitroaniline | 91.5 | 67 | 120 |
| | 302230 | | 2515707 | **4-Nitrophenol** | **33.2** | **49** | **124** |
| | 302230 | | 2515725 | **4-Nitrophenol** | **33.2** | **49** | **124** |
| | 302230 | | 2515736 | **4-Nitrophenol** | **33.2** | **49** | **124** |
| | 302230 | | 2515707 | Acenaphthene | 69.2 | 53 | 120 |
| | 302230 | | 2515736 | Acenaphthene | 69.2 | 53 | 120 |
| | 302230 | | 2515725 | Acenaphthene | 69.2 | 53 | 120 |
| | 302230 | | 2515707 | Acenaphthylene | 69.8 | 54 | 120 |
| | 302230 | | 2515736 | Acenaphthylene | 69.8 | 54 | 120 |
| | 302230 | | 2515725 | Acenaphthylene | 69.8 | 54 | 120 |
| | 302230 | | 2515707 | Anthracene | 77 | 56 | 120 |
| | 302230 | | 2515736 | Anthracene | 77 | 56 | 120 |
| | 302230 | | 2515725 | Anthracene | 77 | 56 | 120 |
| | 302230 | | 2515707 | Benzidine | 46 | 10 | 218 |
| | 302230 | | 2515725 | Benzidine | 46 | 10 | 218 |
| | 302230 | | 2515736 | Benzidine | 46 | 10 | 218 |
| | 302230 | | 2515707 | Benzo (a) anthracene | 72.2 | 54 | 120 |
| | 302230 | | 2515736 | Benzo (a) anthracene | 72.2 | 54 | 120 |
| | 302230 | | 2515725 | Benzo (a) anthracene | 72.2 | 54 | 120 |
| | 302230 | | 2515707 | Benzo (a) pyrene | 70.5 | 53 | 120 |
| | 302230 | | 2515725 | Benzo (a) pyrene | 70.5 | 53 | 120 |
| | 302230 | | 2515736 | Benzo (a) pyrene | 70.5 | 53 | 120 |
| | 302230 | | 2515707 | Benzo (b) fluoranthene | 79.5 | 57 | 120 |
| | 302230 | | 2515736 | Benzo (b) fluoranthene | 79.5 | 57 | 120 |
| | 302230 | | 2515725 | Benzo (b) fluoranthene | 79.5 | 57 | 120 |
| | 302230 | | 2515707 | Benzo (g,h,i) perylene | 63.8 | 53 | 120 |
| | 302230 | | 2515725 | Benzo (g,h,i) perylene | 63.8 | 53 | 120 |
| | 302230 | | 2515736 | Benzo (g,h,i) perylene | 63.8 | 53 | 120 |
| | 302230 | | 2515707 | Benzo (k) fluoranthene | 69.8 | 54 | 120 |
| | 302230 | | 2515736 | Benzo (k) fluoranthene | 69.8 | 54 | 120 |
| | 302230 | | 2515725 | Benzo (k) fluoranthene | 69.8 | 54 | 120 |
| | 302230 | | 2515707 | Benzoic acid | 26.7 | 16 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302230 | WATER | 2515736 | Benzoic acid | 26.7 | 16 | 120 |
| | 302230 | | 2515725 | Benzoic acid | 26.7 | 16 | 120 |
| | 302230 | | 2515707 | Bis (2-chloroethoxy) methane | 92 | 52 | 120 |
| | 302230 | | 2515736 | Bis (2-chloroethoxy) methane | 92 | 52 | 120 |
| | 302230 | | 2515725 | Bis (2-chloroethoxy) methane | 92 | 52 | 120 |
| | 302230 | | 2515707 | Bis (2-chloroethyl) ether | 86.5 | 49 | 120 |
| | 302230 | | 2515725 | Bis (2-chloroethyl) ether | 86.5 | 49 | 120 |
| | 302230 | | 2515736 | Bis (2-chloroethyl) ether | 86.5 | 49 | 120 |
| | 302230 | | 2515707 | Bis (2-ethylhexyl) phthalate | 87 | 48 | 120 |
| | 302230 | | 2515725 | Bis (2-ethylhexyl) phthalate | 87 | 48 | 120 |
| | 302230 | | 2515736 | Bis (2-ethylhexyl) phthalate | 87 | 48 | 120 |
| | 302230 | | 2515707 | Butyl benzylphthalate | 87.5 | 55 | 120 |
| | 302230 | | 2515736 | Butyl benzylphthalate | 87.5 | 55 | 120 |
| | 302230 | | 2515725 | Butyl benzylphthalate | 87.5 | 55 | 120 |
| | 302230 | | 2515707 | Chrysene | 66.5 | 56 | 120 |
| | 302230 | | 2515725 | Chrysene | 66.5 | 56 | 120 |
| | 302230 | | 2515736 | Chrysene | 66.5 | 56 | 120 |
| | 302230 | | 2515707 | Dibenzo (a,h) anthracene | 69 | 54 | 120 |
| | 302230 | | 2515736 | Dibenzo (a,h) anthracene | 69 | 54 | 120 |
| | 302230 | | 2515725 | Dibenzo (a,h) anthracene | 69 | 54 | 120 |
| | 302230 | | 2515707 | Dibenzofuran | 80 | 58 | 120 |
| | 302230 | | 2515725 | Dibenzofuran | 80 | 58 | 120 |
| | 302230 | | 2515736 | Dibenzofuran | 80 | 58 | 120 |
| | 302230 | | 2515707 | Diethyl phthalate | 83.5 | 61 | 120 |
| | 302230 | | 2515725 | Diethyl phthalate | 83.5 | 61 | 120 |
| | 302230 | | 2515736 | Diethyl phthalate | 83.5 | 61 | 120 |
| | 302230 | | 2515707 | Dimethyl phthalate | 85 | 61 | 120 |
| | 302230 | | 2515736 | Dimethyl phthalate | 85 | 61 | 120 |
| | 302230 | | 2515725 | Dimethyl phthalate | 85 | 61 | 120 |
| | 302230 | | 2515707 | Di-n-butylphthalate | 84.8 | 52 | 120 |
| | 302230 | | 2515736 | Di-n-butylphthalate | 84.8 | 52 | 120 |
| | 302230 | | 2515725 | Di-n-butylphthalate | 84.8 | 52 | 120 |
| | 302230 | | 2515707 | Di-n-octylphthalate | 90.5 | 47 | 120 |
| | 302230 | | 2515736 | Di-n-octylphthalate | 90.5 | 47 | 120 |
| | 302230 | | 2515725 | Di-n-octylphthalate | 90.5 | 47 | 120 |
| | 302230 | | 2515707 | Fluoranthene | 70.2 | 64 | 120 |
| | 302230 | | 2515707 | Fluoranthene | 70.2 | 49 | 120 |
| | 302230 | | 2515736 | Fluoranthene | 70.2 | 49 | 120 |
| | 302230 | | 2515736 | Fluoranthene | 70.2 | 64 | 120 |
| | 302230 | | 2515725 | Fluoranthene | 70.2 | 64 | 120 |
| | 302230 | | 2515725 | Fluoranthene | 70.2 | 49 | 120 |
| | 302230 | | 2515707 | Fluorene | 69.5 | 57 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302230 | WATER | 2515707 | Fluorene | 69.5 | 56 | 120 |
| | 302230 | | 2515725 | Fluorene | 69.5 | 56 | 120 |
| | 302230 | | 2515725 | Fluorene | 69.5 | 57 | 120 |
| | 302230 | | 2515736 | Fluorene | 69.5 | 56 | 120 |
| | 302230 | | 2515736 | Fluorene | 69.5 | 57 | 120 |
| | 302230 | | 2515707 | Hexachlorobenzene | 81.2 | 53 | 120 |
| | 302230 | | 2515736 | Hexachlorobenzene | 81.2 | 53 | 120 |
| | 302230 | | 2515725 | Hexachlorobenzene | 81.2 | 53 | 120 |
| | 302230 | | 2515707 | Hexachlorobutadiene | 70.2 | 40 | 120 |
| | 302230 | | 2515707 | Hexachlorobutadiene | 70.2 | 42 | 120 |
| | 302230 | | 2515725 | Hexachlorobutadiene | 70.2 | 40 | 120 |
| | 302230 | | 2515725 | Hexachlorobutadiene | 70.2 | 42 | 120 |
| | 302230 | | 2515736 | Hexachlorobutadiene | 70.2 | 40 | 120 |
| | 302230 | | 2515736 | Hexachlorobutadiene | 70.2 | 42 | 120 |
| | 302230 | | 2515707 | Hexachlorocyclopentadiene | 69.5 | 10 | 120 |
| | 302230 | | 2515725 | Hexachlorocyclopentadiene | 69.5 | 10 | 120 |
| | 302230 | | 2515736 | Hexachlorocyclopentadiene | 69.5 | 10 | 120 |
| | 302230 | | 2515707 | Hexachloroethane | 70.8 | 36 | 120 |
| | 302230 | | 2515725 | Hexachloroethane | 70.8 | 36 | 120 |
| | 302230 | | 2515736 | Hexachloroethane | 70.8 | 36 | 120 |
| | 302230 | | 2515707 | Indeno (1,2,3-c,d) pyrene | 66.2 | 56 | 120 |
| | 302230 | | 2515725 | Indeno (1,2,3-c,d) pyrene | 66.2 | 56 | 120 |
| | 302230 | | 2515736 | Indeno (1,2,3-c,d) pyrene | 66.2 | 56 | 120 |
| | 302230 | | 2515707 | Naphthalene | 67 | 46 | 120 |
| | 302230 | | 2515736 | Naphthalene | 67 | 46 | 120 |
| | 302230 | | 2515725 | Naphthalene | 67 | 46 | 120 |
| | 302230 | | 2515707 | Nitrobenzene | 79.5 | 41 | 120 |
| | 302230 | | 2515736 | Nitrobenzene | 79.5 | 41 | 120 |
| | 302230 | | 2515725 | Nitrobenzene | 79.5 | 41 | 120 |
| | 302230 | | 2515707 | n-Nitrosodi-n-propylamine | 88.5 | 57 | 120 |
| | 302230 | | 2515725 | n-Nitrosodi-n-propylamine | 88.5 | 57 | 120 |
| | 302230 | | 2515736 | n-Nitrosodi-n-propylamine | 88.5 | 57 | 120 |
| | 302230 | | 2515707 | n-Nitrosodiphenylamine | 92.8 | 58 | 120 |
| | 302230 | | 2515736 | n-Nitrosodiphenylamine | 92.8 | 58 | 120 |
| | 302230 | | 2515725 | n-Nitrosodiphenylamine | 92.8 | 58 | 120 |
| | 302230 | | 2515707 | Pentachlorophenol | 82.2 | 52 | 120 |
| | 302230 | | 2515736 | Pentachlorophenol | 82.2 | 52 | 120 |
| | 302230 | | 2515725 | Pentachlorophenol | 82.2 | 52 | 120 |
| | 302230 | | 2515707 | Phenanthrene | 71.8 | 57 | 120 |
| | 302230 | | 2515736 | Phenanthrene | 71.8 | 57 | 120 |
| | 302230 | | 2515725 | Phenanthrene | 71.8 | 57 | 120 |
| | 302230 | | 2515707 | **Phenol** | **46.5** | **52** | **120** |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302230 | WATER | 2515725 | **Phenol** | **46.5** | **52** | **120** |
| | 302230 | | 2515736 | **Phenol** | **46.5** | **52** | **120** |
| | 302230 | | 2515707 | Pyrene | 69.8 | 62 | 130 |
| | 302230 | | 2515725 | Pyrene | 69.8 | 62 | 130 |
| | 302230 | | 2515736 | Pyrene | 69.8 | 62 | 130 |
| | 302231 | | 2515707 | 1,2-Dichlorobenzene | 71 | 40 | 120 |
| | 302231 | | 2515725 | 1,2-Dichlorobenzene | 71 | 40 | 120 |
| | 302231 | | 2515736 | 1,2-Dichlorobenzene | 71 | 40 | 120 |
| | 302231 | | 2515707 | 1,2-Diphenylhydrazine | 86 | 55 | 120 |
| | 302231 | | 2515725 | 1,2-Diphenylhydrazine | 86 | 55 | 120 |
| | 302231 | | 2515736 | 1,2-Diphenylhydrazine | 86 | 55 | 120 |
| | 302231 | | 2515707 | 1,3-Dinitrobenzene | 95.8 | 45 | 135 |
| | 302231 | | 2515725 | 1,3-Dinitrobenzene | 95.8 | 45 | 135 |
| | 302231 | | 2515736 | 1,3-Dinitrobenzene | 95.8 | 45 | 135 |
| | 302231 | | 2515707 | 2,4,5-Trichlorophenol | 83 | 60 | 120 |
| | 302231 | | 2515736 | 2,4,5-Trichlorophenol | 83 | 60 | 120 |
| | 302231 | | 2515725 | 2,4,5-Trichlorophenol | 83 | 60 | 120 |
| | 302231 | | 2515707 | 2,4,6-Trichlorophenol | 82 | 52 | 120 |
| | 302231 | | 2515725 | 2,4,6-Trichlorophenol | 82 | 52 | 120 |
| | 302231 | | 2515736 | 2,4,6-Trichlorophenol | 82 | 52 | 120 |
| | 302231 | | 2515707 | 2,4-Dichlorophenol | 79.2 | 59 | 120 |
| | 302231 | | 2515725 | 2,4-Dichlorophenol | 79.2 | 59 | 120 |
| | 302231 | | 2515736 | 2,4-Dichlorophenol | 79.2 | 59 | 120 |
| | 302231 | | 2515707 | 2,4-Dimethylphenol | 93 | 41 | 120 |
| | 302231 | | 2515725 | 2,4-Dimethylphenol | 93 | 41 | 120 |
| | 302231 | | 2515736 | 2,4-Dimethylphenol | 93 | 41 | 120 |
| | 302231 | | 2515707 | 2,4-Dinitrophenol | 85.5 | 30 | 136 |
| | 302231 | | 2515736 | 2,4-Dinitrophenol | 85.5 | 30 | 136 |
| | 302231 | | 2515725 | 2,4-Dinitrophenol | 85.5 | 30 | 136 |
| | 302231 | | 2515707 | 2,4-Dinitrotoluene | 89.5 | 51 | 120 |
| | 302231 | | 2515725 | 2,4-Dinitrotoluene | 89.5 | 51 | 120 |
| | 302231 | | 2515736 | 2,4-Dinitrotoluene | 89.5 | 51 | 120 |
| | 302231 | | 2515707 | 2,6-Dinitrotoluene | 85.5 | 42 | 125 |
| | 302231 | | 2515736 | 2,6-Dinitrotoluene | 85.5 | 42 | 125 |
| | 302231 | | 2515725 | 2,6-Dinitrotoluene | 85.5 | 42 | 125 |
| | 302231 | | 2515707 | 2-Chloronaphthalene | 79.8 | 47 | 120 |
| | 302231 | | 2515736 | 2-Chloronaphthalene | 79.8 | 47 | 120 |
| | 302231 | | 2515725 | 2-Chloronaphthalene | 79.8 | 47 | 120 |
| | 302231 | | 2515707 | 2-Chlorophenol | 79.5 | 57 | 120 |
| | 302231 | | 2515725 | 2-Chlorophenol | 79.5 | 57 | 120 |
| | 302231 | | 2515736 | 2-Chlorophenol | 79.5 | 57 | 120 |
| | 302231 | | 2515707 | 2-Methylnaphthalene | 81 | 54 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302231 | WATER | 2515736 | 2-Methylnaphthalene | 81 | 54 | 120 |
| | 302231 | | 2515725 | 2-Methylnaphthalene | 81 | 54 | 120 |
| | 302231 | | 2515707 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 302231 | | 2515736 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 302231 | | 2515725 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 302231 | | 2515707 | 2-Nitroaniline | 86 | 44 | 120 |
| | 302231 | | 2515736 | 2-Nitroaniline | 86 | 44 | 120 |
| | 302231 | | 2515725 | 2-Nitroaniline | 86 | 44 | 120 |
| | 302231 | | 2515707 | 2-Nitrophenol | 80.8 | 51 | 120 |
| | 302231 | | 2515736 | 2-Nitrophenol | 80.8 | 51 | 120 |
| | 302231 | | 2515725 | 2-Nitrophenol | 80.8 | 51 | 120 |
| | 302231 | | 2515707 | 3,3'-Dichlorobenzidine | 100 | 29 | 120 |
| | 302231 | | 2515736 | 3,3'-Dichlorobenzidine | 100 | 29 | 120 |
| | 302231 | | 2515725 | 3,3'-Dichlorobenzidine | 100 | 29 | 120 |
| | 302231 | | 2515707 | 3-Nitroaniline | 95 | 49 | 120 |
| | 302231 | | 2515725 | 3-Nitroaniline | 95 | 49 | 120 |
| | 302231 | | 2515736 | 3-Nitroaniline | 95 | 49 | 120 |
| | 302231 | | 2515707 | 4,6-Dinitro-2-methylphenol | 84 | 37 | 126 |
| | 302231 | | 2515736 | 4,6-Dinitro-2-methylphenol | 84 | 37 | 126 |
| | 302231 | | 2515725 | 4,6-Dinitro-2-methylphenol | 84 | 37 | 126 |
| | 302231 | | 2515707 | 4-Bromophenyl phenyl ether | 92.2 | 52 | 120 |
| | 302231 | | 2515736 | 4-Bromophenyl phenyl ether | 92.2 | 52 | 120 |
| | 302231 | | 2515725 | 4-Bromophenyl phenyl ether | 92.2 | 52 | 120 |
| | 302231 | | 2515707 | 4-Chloro-3-methylphenol | 81.5 | 63 | 120 |
| | 302231 | | 2515725 | 4-Chloro-3-methylphenol | 81.5 | 63 | 120 |
| | 302231 | | 2515736 | 4-Chloro-3-methylphenol | 81.5 | 63 | 120 |
| | 302231 | | 2515707 | 4-Chloroaniline | 89.2 | 52 | 120 |
| | 302231 | | 2515725 | 4-Chloroaniline | 89.2 | 52 | 120 |
| | 302231 | | 2515736 | 4-Chloroaniline | 89.2 | 52 | 120 |
| | 302231 | | 2515707 | 4-Chlorophenyl phenyl ether | 88.2 | 56 | 120 |
| | 302231 | | 2515736 | 4-Chlorophenyl phenyl ether | 88.2 | 56 | 120 |
| | 302231 | | 2515725 | 4-Chlorophenyl phenyl ether | 88.2 | 56 | 120 |
| | 302231 | | 2515707 | 4-Methylphenol | 69.5 | 37 | 110 |
| | 302231 | | 2515725 | 4-Methylphenol | 69.5 | 37 | 110 |
| | 302231 | | 2515736 | 4-Methylphenol | 69.5 | 37 | 110 |
| | 302231 | | 2515707 | 4-Nitroaniline | 98.8 | 67 | 120 |
| | 302231 | | 2515725 | 4-Nitroaniline | 98.8 | 67 | 120 |
| | 302231 | | 2515736 | 4-Nitroaniline | 98.8 | 67 | 120 |
| | 302231 | | 2515707 | **4-Nitrophenol** | **33.8** | **49** | **124** |
| | 302231 | | 2515725 | **4-Nitrophenol** | **33.8** | **49** | **124** |
| | 302231 | | 2515736 | **4-Nitrophenol** | **33.8** | **49** | **124** |
| | 302231 | | 2515707 | Acenaphthene | 72 | 53 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302231 | WATER | 2515725 | Acenaphthene | 72 | 53 | 120 |
| | 302231 | | 2515736 | Acenaphthene | 72 | 53 | 120 |
| | 302231 | | 2515707 | Acenaphthylene | 73.8 | 54 | 120 |
| | 302231 | | 2515725 | Acenaphthylene | 73.8 | 54 | 120 |
| | 302231 | | 2515736 | Acenaphthylene | 73.8 | 54 | 120 |
| | 302231 | | 2515707 | Anthracene | 81.2 | 56 | 120 |
| | 302231 | | 2515725 | Anthracene | 81.2 | 56 | 120 |
| | 302231 | | 2515736 | Anthracene | 81.2 | 56 | 120 |
| | 302231 | | 2515707 | Benzidine | 42.9 | 10 | 218 |
| | 302231 | | 2515725 | Benzidine | 42.9 | 10 | 218 |
| | 302231 | | 2515736 | Benzidine | 42.9 | 10 | 218 |
| | 302231 | | 2515707 | Benzo (a) anthracene | 75.2 | 54 | 120 |
| | 302231 | | 2515725 | Benzo (a) anthracene | 75.2 | 54 | 120 |
| | 302231 | | 2515736 | Benzo (a) anthracene | 75.2 | 54 | 120 |
| | 302231 | | 2515707 | Benzo (a) pyrene | 74.2 | 53 | 120 |
| | 302231 | | 2515736 | Benzo (a) pyrene | 74.2 | 53 | 120 |
| | 302231 | | 2515725 | Benzo (a) pyrene | 74.2 | 53 | 120 |
| | 302231 | | 2515707 | Benzo (b) fluoranthene | 80 | 57 | 120 |
| | 302231 | | 2515736 | Benzo (b) fluoranthene | 80 | 57 | 120 |
| | 302231 | | 2515725 | Benzo (b) fluoranthene | 80 | 57 | 120 |
| | 302231 | | 2515707 | Benzo (g,h,i) perylene | 68.2 | 53 | 120 |
| | 302231 | | 2515736 | Benzo (g,h,i) perylene | 68.2 | 53 | 120 |
| | 302231 | | 2515725 | Benzo (g,h,i) perylene | 68.2 | 53 | 120 |
| | 302231 | | 2515707 | Benzo (k) fluoranthene | 76 | 54 | 120 |
| | 302231 | | 2515736 | Benzo (k) fluoranthene | 76 | 54 | 120 |
| | 302231 | | 2515725 | Benzo (k) fluoranthene | 76 | 54 | 120 |
| | 302231 | | 2515707 | Benzoic acid | 29.4 | 16 | 120 |
| | 302231 | | 2515736 | Benzoic acid | 29.4 | 16 | 120 |
| | 302231 | | 2515725 | Benzoic acid | 29.4 | 16 | 120 |
| | 302231 | | 2515707 | Bis (2-chloroethoxy) methane | 102 | 52 | 120 |
| | 302231 | | 2515725 | Bis (2-chloroethoxy) methane | 102 | 52 | 120 |
| | 302231 | | 2515736 | Bis (2-chloroethoxy) methane | 102 | 52 | 120 |
| | 302231 | | 2515707 | Bis (2-chloroethyl) ether | 90.8 | 49 | 120 |
| | 302231 | | 2515736 | Bis (2-chloroethyl) ether | 90.8 | 49 | 120 |
| | 302231 | | 2515725 | Bis (2-chloroethyl) ether | 90.8 | 49 | 120 |
| | 302231 | | 2515707 | Bis (2-ethylhexyl) phthalate | 92.2 | 48 | 120 |
| | 302231 | | 2515725 | Bis (2-ethylhexyl) phthalate | 92.2 | 48 | 120 |
| | 302231 | | 2515736 | Bis (2-ethylhexyl) phthalate | 92.2 | 48 | 120 |
| | 302231 | | 2515707 | Butyl benzylphthalate | 92.8 | 55 | 120 |
| | 302231 | | 2515725 | Butyl benzylphthalate | 92.8 | 55 | 120 |
| | 302231 | | 2515736 | Butyl benzylphthalate | 92.8 | 55 | 120 |
| | 302231 | | 2515707 | Chrysene | 70.2 | 56 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302231 | WATER | 2515725 | Chrysene | 70.2 | 56 | 120 |
| | 302231 | | 2515736 | Chrysene | 70.2 | 56 | 120 |
| | 302231 | | 2515707 | Dibenzo (a,h) anthracene | 72.8 | 54 | 120 |
| | 302231 | | 2515725 | Dibenzo (a,h) anthracene | 72.8 | 54 | 120 |
| | 302231 | | 2515736 | Dibenzo (a,h) anthracene | 72.8 | 54 | 120 |
| | 302231 | | 2515707 | Dibenzofuran | 84 | 58 | 120 |
| | 302231 | | 2515725 | Dibenzofuran | 84 | 58 | 120 |
| | 302231 | | 2515736 | Dibenzofuran | 84 | 58 | 120 |
| | 302231 | | 2515707 | Diethyl phthalate | 88 | 61 | 120 |
| | 302231 | | 2515725 | Diethyl phthalate | 88 | 61 | 120 |
| | 302231 | | 2515736 | Diethyl phthalate | 88 | 61 | 120 |
| | 302231 | | 2515707 | Dimethyl phthalate | 90.8 | 61 | 120 |
| | 302231 | | 2515736 | Dimethyl phthalate | 90.8 | 61 | 120 |
| | 302231 | | 2515725 | Dimethyl phthalate | 90.8 | 61 | 120 |
| | 302231 | | 2515707 | Di-n-butylphthalate | 90.2 | 52 | 120 |
| | 302231 | | 2515725 | Di-n-butylphthalate | 90.2 | 52 | 120 |
| | 302231 | | 2515736 | Di-n-butylphthalate | 90.2 | 52 | 120 |
| | 302231 | | 2515707 | Di-n-octylphthalate | 94.8 | 47 | 120 |
| | 302231 | | 2515736 | Di-n-octylphthalate | 94.8 | 47 | 120 |
| | 302231 | | 2515725 | Di-n-octylphthalate | 94.8 | 47 | 120 |
| | 302231 | | 2515707 | Fluoranthene | 75 | 49 | 120 |
| | 302231 | | 2515707 | Fluoranthene | 75 | 64 | 120 |
| | 302231 | | 2515725 | Fluoranthene | 75 | 64 | 120 |
| | 302231 | | 2515725 | Fluoranthene | 75 | 49 | 120 |
| | 302231 | | 2515736 | Fluoranthene | 75 | 64 | 120 |
| | 302231 | | 2515736 | Fluoranthene | 75 | 49 | 120 |
| | 302231 | | 2515707 | Fluorene | 71.8 | 57 | 120 |
| | 302231 | | 2515707 | Fluorene | 71.8 | 56 | 120 |
| | 302231 | | 2515736 | Fluorene | 71.8 | 57 | 120 |
| | 302231 | | 2515736 | Fluorene | 71.8 | 56 | 120 |
| | 302231 | | 2515725 | Fluorene | 71.8 | 57 | 120 |
| | 302231 | | 2515725 | Fluorene | 71.8 | 56 | 120 |
| | 302231 | | 2515707 | Hexachlorobenzene | 84.8 | 53 | 120 |
| | 302231 | | 2515736 | Hexachlorobenzene | 84.8 | 53 | 120 |
| | 302231 | | 2515725 | Hexachlorobenzene | 84.8 | 53 | 120 |
| | 302231 | | 2515707 | Hexachlorobutadiene | 71.5 | 42 | 120 |
| | 302231 | | 2515707 | Hexachlorobutadiene | 71.5 | 40 | 120 |
| | 302231 | | 2515736 | Hexachlorobutadiene | 71.5 | 40 | 120 |
| | 302231 | | 2515725 | Hexachlorobutadiene | 71.5 | 42 | 120 |
| | 302231 | | 2515725 | Hexachlorobutadiene | 71.5 | 40 | 120 |
| | 302231 | | 2515736 | Hexachlorobutadiene | 71.5 | 42 | 120 |
| | 302231 | | 2515707 | Hexachlorocyclopentadiene | 71 | 10 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302231 | WATER | 2515725 | Hexachlorocyclopentadiene | 71 | 10 | 120 |
| | 302231 | | 2515736 | Hexachlorocyclopentadiene | 71 | 10 | 120 |
| | 302231 | | 2515707 | Hexachloroethane | 74.8 | 36 | 120 |
| | 302231 | | 2515725 | Hexachloroethane | 74.8 | 36 | 120 |
| | 302231 | | 2515736 | Hexachloroethane | 74.8 | 36 | 120 |
| | 302231 | | 2515707 | Indeno (1,2,3-c,d) pyrene | 70.2 | 56 | 120 |
| | 302231 | | 2515725 | Indeno (1,2,3-c,d) pyrene | 70.2 | 56 | 120 |
| | 302231 | | 2515736 | Indeno (1,2,3-c,d) pyrene | 70.2 | 56 | 120 |
| | 302231 | | 2515707 | Naphthalene | 69 | 46 | 120 |
| | 302231 | | 2515725 | Naphthalene | 69 | 46 | 120 |
| | 302231 | | 2515736 | Naphthalene | 69 | 46 | 120 |
| | 302231 | | 2515707 | Nitrobenzene | 83.2 | 41 | 120 |
| | 302231 | | 2515725 | Nitrobenzene | 83.2 | 41 | 120 |
| | 302231 | | 2515736 | Nitrobenzene | 83.2 | 41 | 120 |
| | 302231 | | 2515707 | n-Nitrosodi-n-propylamine | 92 | 57 | 120 |
| | 302231 | | 2515736 | n-Nitrosodi-n-propylamine | 92 | 57 | 120 |
| | 302231 | | 2515725 | n-Nitrosodi-n-propylamine | 92 | 57 | 120 |
| | 302231 | | 2515707 | n-Nitrosodiphenylamine | 98 | 58 | 120 |
| | 302231 | | 2515725 | n-Nitrosodiphenylamine | 98 | 58 | 120 |
| | 302231 | | 2515736 | n-Nitrosodiphenylamine | 98 | 58 | 120 |
| | 302231 | | 2515707 | Pentachlorophenol | 86 | 52 | 120 |
| | 302231 | | 2515725 | Pentachlorophenol | 86 | 52 | 120 |
| | 302231 | | 2515736 | Pentachlorophenol | 86 | 52 | 120 |
| | 302231 | | 2515707 | Phenanthrene | 75.8 | 57 | 120 |
| | 302231 | | 2515736 | Phenanthrene | 75.8 | 57 | 120 |
| | 302231 | | 2515725 | Phenanthrene | 75.8 | 57 | 120 |
| | 302231 | | 2515707 | **Phenol** | **49.2** | **52** | **120** |
| | 302231 | | 2515725 | **Phenol** | **49.2** | **52** | **120** |
| | 302231 | | 2515736 | **Phenol** | **49.2** | **52** | **120** |
| | 302231 | | 2515707 | Pyrene | 72 | 62 | 130 |
| | 302231 | | 2515736 | Pyrene | 72 | 62 | 130 |
| | 302231 | | 2515725 | Pyrene | 72 | 62 | 130 |
| | 302300 | | 2515752 | 1,2-Dichlorobenzene | 63.5 | 40 | 120 |
| | 302300 | | 2515752 | 1,2-Diphenylhydrazine | 77 | 55 | 120 |
| | 302300 | | 2515752 | 1,3-Dinitrobenzene | 79.2 | 45 | 135 |
| | 302300 | | 2515752 | 2,4,5-Trichlorophenol | 73.2 | 60 | 120 |
| | 302300 | | 2515752 | 2,4,6-Trichlorophenol | 71.8 | 52 | 120 |
| | 302300 | | 2515752 | 2,4-Dichlorophenol | 73.2 | 59 | 120 |
| | 302300 | | 2515752 | 2,4-Dimethylphenol | 81.2 | 41 | 120 |
| | 302300 | | 2515752 | 2,4-Dinitrophenol | 76 | 30 | 136 |
| | 302300 | | 2515752 | 2,4-Dinitrotoluene | 76 | 51 | 120 |
| | 302300 | | 2515752 | 2,6-Dinitrotoluene | 75.8 | 42 | 125 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302300 | WATER | 2515752 | 2-Chloronaphthalene | 68 | 47 | 120 |
| | 302300 | | 2515752 | 2-Chlorophenol | 73.8 | 57 | 120 |
| | 302300 | | 2515752 | 2-Methylnaphthalene | 69.8 | 54 | 120 |
| | 302300 | | 2515752 | 2-Methylphenol | 68 | 50 | 120 |
| | 302300 | | 2515752 | 2-Nitroaniline | 75.2 | 44 | 120 |
| | 302300 | | 2515752 | 2-Nitrophenol | 75 | 51 | 120 |
| | 302300 | | 2515752 | 3,3'-Dichlorobenzidine | 78.2 | 29 | 120 |
| | 302300 | | 2515752 | 3-Nitroaniline | 73.2 | 49 | 120 |
| | 302300 | | 2515752 | 4,6-Dinitro-2-methylphenol | 72.8 | 37 | 126 |
| | 302300 | | 2515752 | 4-Bromophenyl phenyl ether | 78 | 52 | 120 |
| | 302300 | | 2515752 | 4-Chloro-3-methylphenol | 73 | 63 | 120 |
| | 302300 | | 2515752 | 4-Chloroaniline | 77.2 | 52 | 120 |
| | 302300 | | 2515752 | 4-Chlorophenyl phenyl ether | 75.8 | 56 | 120 |
| | 302300 | | 2515752 | 4-Methylphenol | 62.8 | 37 | 110 |
| | 302300 | | 2515752 | 4-Nitroaniline | 85.5 | 67 | 120 |
| | 302300 | | 2515752 | **4-Nitrophenol** | **38.2** | **49** | **124** |
| | 302300 | | 2515752 | Acenaphthene | 62.2 | 53 | 120 |
| | 302300 | | 2515752 | Acenaphthylene | 63.8 | 54 | 120 |
| | 302300 | | 2515752 | Anthracene | 71.8 | 56 | 120 |
| | 302300 | | 2515752 | Benzidine | 46.2 | 10 | 218 |
| | 302300 | | 2515752 | Benzo (a) anthracene | 67.5 | 54 | 120 |
| | 302300 | | 2515752 | Benzo (a) pyrene | 69 | 53 | 120 |
| | 302300 | | 2515752 | Benzo (b) fluoranthene | 69.5 | 57 | 120 |
| | 302300 | | 2515752 | Benzo (g,h,i) perylene | 62.8 | 53 | 120 |
| | 302300 | | 2515752 | Benzo (k) fluoranthene | 64.8 | 54 | 120 |
| | 302300 | | 2515752 | Benzoic acid | 27.1 | 16 | 120 |
| | 302300 | | 2515752 | Bis (2-chloroethoxy) methane | 85.2 | 52 | 120 |
| | 302300 | | 2515752 | Bis (2-chloroethyl) ether | 81.2 | 49 | 120 |
| | 302300 | | 2515752 | Bis (2-ethylhexyl) phthalate | 108 | 48 | 120 |
| | 302300 | | 2515752 | Butyl benzylphthalate | 90.2 | 55 | 120 |
| | 302300 | | 2515752 | Chrysene | 63.2 | 56 | 120 |
| | 302300 | | 2515752 | Dibenzo (a,h) anthracene | 65 | 54 | 120 |
| | 302300 | | 2515752 | Dibenzofuran | 73 | 58 | 120 |
| | 302300 | | 2515752 | Diethyl phthalate | 80 | 61 | 120 |
| | 302300 | | 2515752 | Dimethyl phthalate | 77.5 | 61 | 120 |
| | 302300 | | 2515752 | Di-n-butylphthalate | 83.2 | 52 | 120 |
| | 302300 | | 2515752 | Di-n-octylphthalate | 116 | 47 | 120 |
| | 302300 | | 2515752 | Fluoranthene | 65.5 | 49 | 120 |
| | 302300 | | 2515752 | Fluoranthene | 65.5 | 64 | 120 |
| | 302300 | | 2515752 | Fluorene | 62.8 | 56 | 120 |
| | 302300 | | 2515752 | Fluorene | 62.8 | 57 | 120 |
| | 302300 | | 2515752 | Hexachlorobenzene | 71.5 | 53 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302300 | WATER | 2515752 | Hexachlorobutadiene | 62.2 | 42 | 120 |
| | 302300 | | 2515752 | Hexachlorobutadiene | 62.2 | 40 | 120 |
| | 302300 | | 2515752 | Hexachlorocyclopentadiene | 56 | 10 | 120 |
| | 302300 | | 2515752 | Hexachloroethane | 68.5 | 36 | 120 |
| | 302300 | | 2515752 | Indeno (1,2,3-c,d) pyrene | 64.5 | 56 | 120 |
| | 302300 | | 2515752 | Naphthalene | 61 | 46 | 120 |
| | 302300 | | 2515752 | Nitrobenzene | 75.5 | 41 | 120 |
| | 302300 | | 2515752 | n-Nitrosodi-n-propylamine | 81.5 | 57 | 120 |
| | 302300 | | 2515752 | n-Nitrosodiphenylamine | 82.2 | 58 | 120 |
| | 302300 | | 2515752 | Pentachlorophenol | 76 | 52 | 120 |
| | 302300 | | 2515752 | Phenanthrene | 65 | 57 | 120 |
| | 302300 | | 2515752 | **Phenol** | **44.8** | **52** | **120** |
| | 302300 | | 2515752 | Pyrene | 64.8 | 62 | 130 |
| | 302301 | | 2515752 | 1,2-Dichlorobenzene | 59.5 | 40 | 120 |
| | 302301 | | 2515752 | 1,2-Diphenylhydrazine | 75.2 | 55 | 120 |
| | 302301 | | 2515752 | 1,3-Dinitrobenzene | 85.2 | 45 | 135 |
| | 302301 | | 2515752 | 2,4,5-Trichlorophenol | 71.2 | 60 | 120 |
| | 302301 | | 2515752 | 2,4,6-Trichlorophenol | 72 | 52 | 120 |
| | 302301 | | 2515752 | 2,4-Dichlorophenol | 71.2 | 59 | 120 |
| | 302301 | | 2515752 | 2,4-Dimethylphenol | 79.2 | 41 | 120 |
| | 302301 | | 2515752 | 2,4-Dinitrophenol | 77.6 | 30 | 136 |
| | 302301 | | 2515752 | 2,4-Dinitrotoluene | 76.2 | 51 | 120 |
| | 302301 | | 2515752 | 2,6-Dinitrotoluene | 75.8 | 42 | 125 |
| | 302301 | | 2515752 | 2-Chloronaphthalene | 67.2 | 47 | 120 |
| | 302301 | | 2515752 | 2-Chlorophenol | 71.5 | 57 | 120 |
| | 302301 | | 2515752 | 2-Methylnaphthalene | 67.8 | 54 | 120 |
| | 302301 | | 2515752 | 2-Methylphenol | 66.8 | 50 | 120 |
| | 302301 | | 2515752 | 2-Nitroaniline | 74.8 | 44 | 120 |
| | 302301 | | 2515752 | 2-Nitrophenol | 74.5 | 51 | 120 |
| | 302301 | | 2515752 | 3,3'-Dichlorobenzidine | 78.5 | 29 | 120 |
| | 302301 | | 2515752 | 3-Nitroaniline | 73.8 | 49 | 120 |
| | 302301 | | 2515752 | 4,6-Dinitro-2-methylphenol | 73.5 | 37 | 126 |
| | 302301 | | 2515752 | 4-Bromophenyl phenyl ether | 76 | 52 | 120 |
| | 302301 | | 2515752 | 4-Chloro-3-methylphenol | 71.2 | 63 | 120 |
| | 302301 | | 2515752 | 4-Chloroaniline | 76.5 | 52 | 120 |
| | 302301 | | 2515752 | 4-Chlorophenyl phenyl ether | 74.2 | 56 | 120 |
| | 302301 | | 2515752 | 4-Methylphenol | 61 | 37 | 110 |
| | 302301 | | 2515752 | 4-Nitroaniline | 85.5 | 67 | 120 |
| | 302301 | | 2515752 | **4-Nitrophenol** | **39** | **49** | **124** |
| | 302301 | | 2515752 | Acenaphthene | 60.8 | 53 | 120 |
| | 302301 | | 2515752 | Acenaphthylene | 62 | 54 | 120 |
| | 302301 | | 2515752 | Anthracene | 70.2 | 56 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302301 | WATER | 2515752 | Benzidine | 55 | 10 | 218 |
| | 302301 | | 2515752 | Benzo (a) anthracene | 66 | 54 | 120 |
| | 302301 | | 2515752 | Benzo (a) pyrene | 67.5 | 53 | 120 |
| | 302301 | | 2515752 | Benzo (b) fluoranthene | 66 | 57 | 120 |
| | 302301 | | 2515752 | Benzo (g,h,i) perylene | 64 | 53 | 120 |
| | 302301 | | 2515752 | Benzo (k) fluoranthene | 65 | 54 | 120 |
| | 302301 | | 2515752 | Benzoic acid | 25.4 | 16 | 120 |
| | 302301 | | 2515752 | Bis (2-chloroethoxy) methane | 83.5 | 52 | 120 |
| | 302301 | | 2515752 | Bis (2-chloroethyl) ether | 79 | 49 | 120 |
| | 302301 | | 2515752 | Bis (2-ethylhexyl) phthalate | 85.2 | 48 | 120 |
| | 302301 | | 2515752 | Butyl benzylphthalate | 88.5 | 55 | 120 |
| | 302301 | | 2515752 | Chrysene | 63 | 56 | 120 |
| | 302301 | | 2515752 | Dibenzo (a,h) anthracene | 64.5 | 54 | 120 |
| | 302301 | | 2515752 | Dibenzofuran | 72.2 | 58 | 120 |
| | 302301 | | 2515752 | Diethyl phthalate | 78.2 | 61 | 120 |
| | 302301 | | 2515752 | Dimethyl phthalate | 76 | 61 | 120 |
| | 302301 | | 2515752 | Di-n-butylphthalate | 82 | 52 | 120 |
| | 302301 | | 2515752 | Di-n-octylphthalate | 90 | 47 | 120 |
| | 302301 | | 2515752 | Fluoranthene | 64.8 | 64 | 120 |
| | 302301 | | 2515752 | Fluoranthene | 64.8 | 49 | 120 |
| | 302301 | | 2515752 | Fluorene | 60.8 | 56 | 120 |
| | 302301 | | 2515752 | Fluorene | 60.8 | 57 | 120 |
| | 302301 | | 2515752 | Hexachlorobenzene | 70.2 | 53 | 120 |
| | 302301 | | 2515752 | Hexachlorobutadiene | 57.5 | 42 | 120 |
| | 302301 | | 2515752 | Hexachlorobutadiene | 57.5 | 40 | 120 |
| | 302301 | | 2515752 | Hexachlorocyclopentadiene | 52 | 10 | 120 |
| | 302301 | | 2515752 | Hexachloroethane | 63 | 36 | 120 |
| | 302301 | | 2515752 | Indeno (1,2,3-c,d) pyrene | 65 | 56 | 120 |
| | 302301 | | 2515752 | Naphthalene | 57.2 | 46 | 120 |
| | 302301 | | 2515752 | Nitrobenzene | 72.8 | 41 | 120 |
| | 302301 | | 2515752 | n-Nitrosodi-n-propylamine | 80.5 | 57 | 120 |
| | 302301 | | 2515752 | n-Nitrosodiphenylamine | 80 | 58 | 120 |
| | 302301 | | 2515752 | Pentachlorophenol | 74.2 | 52 | 120 |
| | 302301 | | 2515752 | Phenanthrene | 64 | 57 | 120 |
| | 302301 | | 2515752 | **Phenol** | **43.5** | **52** | **120** |
| | 302301 | | 2515752 | Pyrene | 63 | 62 | 130 |
| | 302457 | | 2515786 | 1,2-Dichlorobenzene | 74.2 | 40 | 120 |
| | 302457 | | 2515786 | 1,2-Diphenylhydrazine | 96 | 55 | 120 |
| | 302457 | | 2515786 | 1,3-Dinitrobenzene | 104 | 45 | 135 |
| | 302457 | | 2515786 | 2,4,5-Trichlorophenol | 87 | 60 | 120 |
| | 302457 | | 2515786 | 2,4,6-Trichlorophenol | 86.2 | 52 | 120 |
| | 302457 | | 2515786 | 2,4-Dichlorophenol | 83.5 | 59 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302457 | WATER | 2515786 | 2,4-Dimethylphenol | 89.2 | 41 | 120 |
| | 302457 | | 2515786 | 2,4-Dinitrophenol | 98 | 30 | 136 |
| | 302457 | | 2515786 | 2,4-Dinitrotoluene | 98.8 | 51 | 120 |
| | 302457 | | 2515786 | 2,6-Dinitrotoluene | 95.8 | 42 | 125 |
| | 302457 | | 2515786 | 2-Chloronaphthalene | 80.8 | 47 | 120 |
| | 302457 | | 2515786 | 2-Chlorophenol | 84.5 | 57 | 120 |
| | 302457 | | 2515786 | 2-Methylnaphthalene | 84 | 54 | 120 |
| | 302457 | | 2515786 | 2-Methylphenol | 79.8 | 50 | 120 |
| | 302457 | | 2515786 | 2-Nitroaniline | 92.8 | 44 | 120 |
| | 302457 | | 2515786 | 2-Nitrophenol | 87.5 | 51 | 120 |
| | 302457 | | 2515786 | 3,3'-Dichlorobenzidine | 96.4 | 29 | 120 |
| | 302457 | | 2515786 | 3-Nitroaniline | 95.5 | 49 | 120 |
| | 302457 | | 2515786 | 4,6-Dinitro-2-methylphenol | 88.8 | 37 | 126 |
| | 302457 | | 2515786 | 4-Bromophenyl phenyl ether | 94 | 52 | 120 |
| | 302457 | | 2515786 | 4-Chloro-3-methylphenol | 88 | 63 | 120 |
| | 302457 | | 2515786 | 4-Chloroaniline | 89 | 52 | 120 |
| | 302457 | | 2515786 | 4-Chlorophenyl phenyl ether | 93.8 | 56 | 120 |
| | 302457 | | 2515786 | 4-Methylphenol | 72.5 | 37 | 110 |
| | 302457 | | 2515786 | 4-Nitroaniline | 109 | 67 | 120 |
| | 302457 | | 2515786 | 4-Nitrophenol | 49.8 | 49 | 124 |
| | 302457 | | 2515786 | Acenaphthene | 73.5 | 53 | 120 |
| | 302457 | | 2515786 | Acenaphthylene | 76 | 54 | 120 |
| | 302457 | | 2515786 | Anthracene | 85.5 | 56 | 120 |
| | 302457 | | 2515786 | Benzidine | 67.6 | 10 | 218 |
| | 302457 | | 2515786 | Benzo (a) anthracene | 80.8 | 54 | 120 |
| | 302457 | | 2515786 | Benzo (a) pyrene | 79.2 | 53 | 120 |
| | 302457 | | 2515786 | Benzo (b) fluoranthene | 83 | 57 | 120 |
| | 302457 | | 2515786 | Benzo (g,h,i) perylene | 77.2 | 53 | 120 |
| | 302457 | | 2515786 | Benzo (k) fluoranthene | 75.5 | 54 | 120 |
| | 302457 | | 2515786 | Benzoic acid | 19.6 | 16 | 120 |
| | 302457 | | 2515786 | Bis (2-chloroethoxy) methane | 94.8 | 52 | 120 |
| | 302457 | | 2515786 | Bis (2-chloroethyl) ether | 93 | 49 | 120 |
| | 302457 | | 2515786 | Bis (2-ethylhexyl) phthalate | 105 | 48 | 120 |
| | 302457 | | 2515786 | Butyl benzylphthalate | 108 | 55 | 120 |
| | 302457 | | 2515786 | Chrysene | 74.5 | 56 | 120 |
| | 302457 | | 2515786 | Dibenzo (a,h) anthracene | 80 | 54 | 120 |
| | 302457 | | 2515786 | Dibenzofuran | 89.5 | 58 | 120 |
| | 302457 | | 2515786 | Diethyl phthalate | 101 | 61 | 120 |
| | 302457 | | 2515786 | Dimethyl phthalate | 97.2 | 61 | 120 |
| | 302457 | | 2515786 | Di-n-butylphthalate | 100 | 52 | 120 |
| | 302457 | | 2515786 | Di-n-octylphthalate | 114 | 47 | 120 |
| | 302457 | | 2515786 | Fluoranthene | 81.8 | 49 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302457 | WATER | 2515786 | Fluoranthene | 81.8 | 64 | 120 |
| | 302457 | | 2515786 | Fluorene | 77.5 | 57 | 120 |
| | 302457 | | 2515786 | Fluorene | 77.5 | 56 | 120 |
| | 302457 | | 2515786 | Hexachlorobenzene | 87.8 | 53 | 120 |
| | 302457 | | 2515786 | Hexachlorobutadiene | 76.2 | 42 | 120 |
| | 302457 | | 2515786 | Hexachlorobutadiene | 76.2 | 40 | 120 |
| | 302457 | | 2515786 | Hexachlorocyclopentadiene | 71 | 10 | 120 |
| | 302457 | | 2515786 | Hexachloroethane | 82.5 | 36 | 120 |
| | 302457 | | 2515786 | Indeno (1,2,3-c,d) pyrene | 79.5 | 56 | 120 |
| | 302457 | | 2515786 | Naphthalene | 68.2 | 46 | 120 |
| | 302457 | | 2515786 | Nitrobenzene | 84.5 | 41 | 120 |
| | 302457 | | 2515786 | n-Nitrosodi-n-propylamine | 97 | 57 | 120 |
| | 302457 | | 2515786 | n-Nitrosodiphenylamine | 102 | 58 | 120 |
| | 302457 | | 2515786 | Pentachlorophenol | 72.5 | 52 | 120 |
| | 302457 | | 2515786 | Phenanthrene | 77 | 57 | 120 |
| | 302457 | | 2515786 | **Phenol** | **50.2** | **52** | **120** |
| | 302457 | | 2515786 | Pyrene | 75.5 | 62 | 130 |
| | 302458 | | 2515786 | 1,2-Dichlorobenzene | 79.5 | 40 | 120 |
| | 302458 | | 2515786 | 1,2-Diphenylhydrazine | 95.5 | 55 | 120 |
| | 302458 | | 2515786 | 1,3-Dinitrobenzene | 104 | 45 | 135 |
| | 302458 | | 2515786 | 2,4,5-Trichlorophenol | 90.5 | 60 | 120 |
| | 302458 | | 2515786 | 2,4,6-Trichlorophenol | 89.2 | 52 | 120 |
| | 302458 | | 2515786 | 2,4-Dichlorophenol | 88.2 | 59 | 120 |
| | 302458 | | 2515786 | 2,4-Dimethylphenol | 94.2 | 41 | 120 |
| | 302458 | | 2515786 | 2,4-Dinitrophenol | 108 | 30 | 136 |
| | 302458 | | 2515786 | 2,4-Dinitrotoluene | 103 | 51 | 120 |
| | 302458 | | 2515786 | 2,6-Dinitrotoluene | 99 | 42 | 125 |
| | 302458 | | 2515786 | 2-Chloronaphthalene | 84.5 | 47 | 120 |
| | 302458 | | 2515786 | 2-Chlorophenol | 88.2 | 57 | 120 |
| | 302458 | | 2515786 | 2-Methylnaphthalene | 87.5 | 54 | 120 |
| | 302458 | | 2515786 | 2-Methylphenol | 83.5 | 50 | 120 |
| | 302458 | | 2515786 | 2-Nitroaniline | 94.2 | 44 | 120 |
| | 302458 | | 2515786 | 2-Nitrophenol | 91 | 51 | 120 |
| | 302458 | | 2515786 | 3,3'-Dichlorobenzidine | 97.2 | 29 | 120 |
| | 302458 | | 2515786 | 3-Nitroaniline | 99 | 49 | 120 |
| | 302458 | | 2515786 | 4,6-Dinitro-2-methylphenol | 92.8 | 37 | 126 |
| | 302458 | | 2515786 | 4-Bromophenyl phenyl ether | 98 | 52 | 120 |
| | 302458 | | 2515786 | 4-Chloro-3-methylphenol | 93 | 63 | 120 |
| | 302458 | | 2515786 | 4-Chloroaniline | 93.2 | 52 | 120 |
| | 302458 | | 2515786 | 4-Chlorophenyl phenyl ether | 96 | 56 | 120 |
| | 302458 | | 2515786 | 4-Methylphenol | 75.5 | 37 | 110 |
| | 302458 | | 2515786 | 4-Nitroaniline | 112 | 67 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302458 | WATER | 2515786 | 4-Nitrophenol | 51.5 | 49 | 124 |
| | 302458 | | 2515786 | Acenaphthene | 76.5 | 53 | 120 |
| | 302458 | | 2515786 | Acenaphthylene | 79 | 54 | 120 |
| | 302458 | | 2515786 | Anthracene | 89 | 56 | 120 |
| | 302458 | | 2515786 | Benzidine | 40.2 | 10 | 218 |
| | 302458 | | 2515786 | Benzo (a) anthracene | 81.2 | 54 | 120 |
| | 302458 | | 2515786 | Benzo (a) pyrene | 82.2 | 53 | 120 |
| | 302458 | | 2515786 | Benzo (b) fluoranthene | 87.5 | 57 | 120 |
| | 302458 | | 2515786 | Benzo (g,h,i) perylene | 81.5 | 53 | 120 |
| | 302458 | | 2515786 | Benzo (k) fluoranthene | 77.8 | 54 | 120 |
| | 302458 | | 2515786 | Benzoic acid | 30.1 | 16 | 120 |
| | 302458 | | 2515786 | Bis (2-chloroethoxy) methane | 101 | 52 | 120 |
| | 302458 | | 2515786 | Bis (2-chloroethyl) ether | 97 | 49 | 120 |
| | 302458 | | 2515786 | Bis (2-ethylhexyl) phthalate | 110 | 48 | 120 |
| | 302458 | | 2515786 | Butyl benzylphthalate | 110 | 55 | 120 |
| | 302458 | | 2515786 | Chrysene | 76.8 | 56 | 120 |
| | 302458 | | 2515786 | Dibenzo (a,h) anthracene | 83.5 | 54 | 120 |
| | 302458 | | 2515786 | Dibenzofuran | 90.5 | 58 | 120 |
| | 302458 | | 2515786 | Diethyl phthalate | 104 | 61 | 120 |
| | 302458 | | 2515786 | Dimethyl phthalate | 98.8 | 61 | 120 |
| | 302458 | | 2515786 | Di-n-butylphthalate | 101 | 52 | 120 |
| | 302458 | | 2515786 | Di-n-octylphthalate | 120 | 47 | 120 |
| | 302458 | | 2515786 | Fluoranthene | 83.5 | 64 | 120 |
| | 302458 | | 2515786 | Fluoranthene | 83.5 | 49 | 120 |
| | 302458 | | 2515786 | Fluorene | 79 | 56 | 120 |
| | 302458 | | 2515786 | Fluorene | 79 | 57 | 120 |
| | 302458 | | 2515786 | Hexachlorobenzene | 90.5 | 53 | 120 |
| | 302458 | | 2515786 | Hexachlorobutadiene | 81 | 40 | 120 |
| | 302458 | | 2515786 | Hexachlorobutadiene | 81 | 42 | 120 |
| | 302458 | | 2515786 | Hexachlorocyclopentadiene | 75 | 10 | 120 |
| | 302458 | | 2515786 | Hexachloroethane | 88.5 | 36 | 120 |
| | 302458 | | 2515786 | Indeno (1,2,3-c,d) pyrene | 82.2 | 56 | 120 |
| | 302458 | | 2515786 | Naphthalene | 72 | 46 | 120 |
| | 302458 | | 2515786 | Nitrobenzene | 89.2 | 41 | 120 |
| | 302458 | | 2515786 | n-Nitrosodi-n-propylamine | 98.8 | 57 | 120 |
| | 302458 | | 2515786 | n-Nitrosodiphenylamine | 103 | 58 | 120 |
| | 302458 | | 2515786 | Pentachlorophenol | 81 | 52 | 120 |
| | 302458 | | 2515786 | Phenanthrene | 78.5 | 57 | 120 |
| | 302458 | | 2515786 | **Phenol** | **51.5** | **52** | **120** |
| | 302458 | | 2515786 | Pyrene | 76.2 | 62 | 130 |
| | 302524 | | 2515808 | 1,2-Dichlorobenzene | 70.2 | 40 | 120 |
| | 302524 | | 2515808 | 1,2-Diphenylhydrazine | 90.8 | 55 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302524 | WATER | 2515808 | 1,3-Dinitrobenzene | 99.2 | 45 | 135 |
| | 302524 | | 2515808 | 2,4,5-Trichlorophenol | 83.2 | 60 | 120 |
| | 302524 | | 2515808 | 2,4,6-Trichlorophenol | 83 | 52 | 120 |
| | 302524 | | 2515808 | 2,4-Dichlorophenol | 81.2 | 59 | 120 |
| | 302524 | | 2515808 | 2,4-Dimethylphenol | 88.2 | 41 | 120 |
| | 302524 | | 2515808 | 2,4-Dinitrophenol | 74.8 | 30 | 136 |
| | 302524 | | 2515808 | 2,4-Dinitrotoluene | 95.2 | 51 | 120 |
| | 302524 | | 2515808 | 2,6-Dinitrotoluene | 90.8 | 42 | 125 |
| | 302524 | | 2515808 | 2-Chloronaphthalene | 76.8 | 47 | 120 |
| | 302524 | | 2515808 | 2-Chlorophenol | 81 | 57 | 120 |
| | 302524 | | 2515808 | 2-Methylnaphthalene | 78.5 | 54 | 120 |
| | 302524 | | 2515808 | 2-Methylphenol | 77.8 | 50 | 120 |
| | 302524 | | 2515808 | 2-Nitroaniline | 89.5 | 44 | 120 |
| | 302524 | | 2515808 | 2-Nitrophenol | 85.2 | 51 | 120 |
| | 302524 | | 2515808 | 3,3'-Dichlorobenzidine | 90.4 | 29 | 120 |
| | 302524 | | 2515808 | 3-Nitroaniline | 92.2 | 49 | 120 |
| | 302524 | | 2515808 | 4,6-Dinitro-2-methylphenol | 78.2 | 37 | 126 |
| | 302524 | | 2515808 | 4-Bromophenyl phenyl ether | 89.8 | 52 | 120 |
| | 302524 | | 2515808 | 4-Chloro-3-methylphenol | 85.8 | 63 | 120 |
| | 302524 | | 2515808 | 4-Chloroaniline | 86.5 | 52 | 120 |
| | 302524 | | 2515808 | 4-Chlorophenyl phenyl ether | 88.2 | 56 | 120 |
| | 302524 | | 2515808 | 4-Methylphenol | 71 | 37 | 110 |
| | 302524 | | 2515808 | 4-Nitroaniline | 104 | 67 | 120 |
| | 302524 | | 2515808 | 4-Nitrophenol | 49.2 | 49 | 124 |
| | 302524 | | 2515808 | Acenaphthene | 70.8 | 53 | 120 |
| | 302524 | | 2515808 | Acenaphthylene | 72.5 | 54 | 120 |
| | 302524 | | 2515808 | Anthracene | 81.2 | 56 | 120 |
| | 302524 | | 2515808 | Benzidine | 31.5 | 10 | 218 |
| | 302524 | | 2515808 | Benzo (a) anthracene | 76.5 | 54 | 120 |
| | 302524 | | 2515808 | Benzo (a) pyrene | 76.8 | 53 | 120 |
| | 302524 | | 2515808 | Benzo (b) fluoranthene | 79.5 | 57 | 120 |
| | 302524 | | 2515808 | Benzo (g,h,i) perylene | 78.5 | 53 | 120 |
| | 302524 | | 2515808 | Benzo (k) fluoranthene | 74 | 54 | 120 |
| | 302524 | | 2515808 | **Benzoic acid** | **10.6** | **16** | **120** |
| | 302524 | | 2515808 | Bis (2-chloroethoxy) methane | 92.8 | 52 | 120 |
| | 302524 | | 2515808 | Bis (2-chloroethyl) ether | 90.5 | 49 | 120 |
| | 302524 | | 2515808 | Bis (2-ethylhexyl) phthalate | 97 | 48 | 120 |
| | 302524 | | 2515808 | Butyl benzylphthalate | 102 | 55 | 120 |
| | 302524 | | 2515808 | Chrysene | 70.2 | 56 | 120 |
| | 302524 | | 2515808 | Dibenzo (a,h) anthracene | 81 | 54 | 120 |
| | 302524 | | 2515808 | Dibenzofuran | 85.5 | 58 | 120 |
| | 302524 | | 2515808 | Diethyl phthalate | 97.8 | 61 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302524 | WATER | 2515808 | Dimethyl phthalate | 104 | 61 | 120 |
| | 302524 | | 2515808 | Di-n-butylphthalate | 93.2 | 52 | 120 |
| | 302524 | | 2515808 | Di-n-octylphthalate | 105 | 47 | 120 |
| | 302524 | | 2515808 | Fluoranthene | 78 | 49 | 120 |
| | 302524 | | 2515808 | Fluoranthene | 78 | 64 | 120 |
| | 302524 | | 2515808 | Fluorene | 74.2 | 57 | 120 |
| | 302524 | | 2515808 | Fluorene | 74.2 | 56 | 120 |
| | 302524 | | 2515808 | Hexachlorobenzene | 82.2 | 53 | 120 |
| | 302524 | | 2515808 | Hexachlorobutadiene | 70.5 | 42 | 120 |
| | 302524 | | 2515808 | Hexachlorobutadiene | 70.5 | 40 | 120 |
| | 302524 | | 2515808 | Hexachlorocyclopentadiene | 65 | 10 | 120 |
| | 302524 | | 2515808 | Hexachloroethane | 76.2 | 36 | 120 |
| | 302524 | | 2515808 | Indeno (1,2,3-c,d) pyrene | 80.2 | 56 | 120 |
| | 302524 | | 2515808 | Naphthalene | 67.2 | 46 | 120 |
| | 302524 | | 2515808 | Nitrobenzene | 82.2 | 41 | 120 |
| | 302524 | | 2515808 | n-Nitrosodi-n-propylamine | 92.2 | 57 | 120 |
| | 302524 | | 2515808 | n-Nitrosodiphenylamine | 94.8 | 58 | 120 |
| | 302524 | | 2515808 | Pentachlorophenol | 61 | 52 | 120 |
| | 302524 | | 2515808 | Phenanthrene | 73.8 | 57 | 120 |
| | 302524 | | 2515808 | **Phenol** | **50** | **52** | **120** |
| | 302524 | | 2515808 | Pyrene | 69.8 | 62 | 130 |
| | 302525 | | 2515808 | 1,2-Dichlorobenzene | 72.5 | 40 | 120 |
| | 302525 | | 2515808 | 1,2-Diphenylhydrazine | 95.5 | 55 | 120 |
| | 302525 | | 2515808 | 1,3-Dinitrobenzene | 109 | 45 | 135 |
| | 302525 | | 2515808 | 2,4,5-Trichlorophenol | 87.8 | 60 | 120 |
| | 302525 | | 2515808 | 2,4,6-Trichlorophenol | 89 | 52 | 120 |
| | 302525 | | 2515808 | 2,4-Dichlorophenol | 86 | 59 | 120 |
| | 302525 | | 2515808 | 2,4-Dimethylphenol | 92.2 | 41 | 120 |
| | 302525 | | 2515808 | 2,4-Dinitrophenol | 86.8 | 30 | 136 |
| | 302525 | | 2515808 | 2,4-Dinitrotoluene | 101 | 51 | 120 |
| | 302525 | | 2515808 | 2,6-Dinitrotoluene | 95 | 42 | 125 |
| | 302525 | | 2515808 | 2-Chloronaphthalene | 81.5 | 47 | 120 |
| | 302525 | | 2515808 | 2-Chlorophenol | 86.8 | 57 | 120 |
| | 302525 | | 2515808 | 2-Methylnaphthalene | 82.2 | 54 | 120 |
| | 302525 | | 2515808 | 2-Methylphenol | 82 | 50 | 120 |
| | 302525 | | 2515808 | 2-Nitroaniline | 94.5 | 44 | 120 |
| | 302525 | | 2515808 | 2-Nitrophenol | 90.2 | 51 | 120 |
| | 302525 | | 2515808 | 3,3'-Dichlorobenzidine | 95.4 | 29 | 120 |
| | 302525 | | 2515808 | 3-Nitroaniline | 98 | 49 | 120 |
| | 302525 | | 2515808 | 4,6-Dinitro-2-methylphenol | 85.8 | 37 | 126 |
| | 302525 | | 2515808 | 4-Bromophenyl phenyl ether | 95 | 52 | 120 |
| | 302525 | | 2515808 | 4-Chloro-3-methylphenol | 90.8 | 63 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302525 | WATER | 2515808 | 4-Chloroaniline | 90.5 | 52 | 120 |
| | 302525 | | 2515808 | 4-Chlorophenyl phenyl ether | 94.5 | 56 | 120 |
| | 302525 | | 2515808 | 4-Methylphenol | 77 | 37 | 110 |
| | 302525 | | 2515808 | 4-Nitroaniline | 111 | 67 | 120 |
| | 302525 | | 2515808 | 4-Nitrophenol | 51 | 49 | 124 |
| | 302525 | | 2515808 | Acenaphthene | 75 | 53 | 120 |
| | 302525 | | 2515808 | Acenaphthylene | 77.2 | 54 | 120 |
| | 302525 | | 2515808 | Anthracene | 86.5 | 56 | 120 |
| | 302525 | | 2515808 | Benzidine | 56.4 | 10 | 218 |
| | 302525 | | 2515808 | Benzo (a) anthracene | 81.8 | 54 | 120 |
| | 302525 | | 2515808 | Benzo (a) pyrene | 81.2 | 53 | 120 |
| | 302525 | | 2515808 | Benzo (b) fluoranthene | 86.5 | 57 | 120 |
| | 302525 | | 2515808 | Benzo (g,h,i) perylene | 82.5 | 53 | 120 |
| | 302525 | | 2515808 | Benzo (k) fluoranthene | 73.8 | 54 | 120 |
| | 302525 | | 2515808 | **Benzoic acid** | **11.5** | **16** | **120** |
| | 302525 | | 2515808 | Bis (2-chloroethoxy) methane | 97.5 | 52 | 120 |
| | 302525 | | 2515808 | Bis (2-chloroethyl) ether | 95.5 | 49 | 120 |
| | 302525 | | 2515808 | Bis (2-ethylhexyl) phthalate | 106 | 48 | 120 |
| | 302525 | | 2515808 | Butyl benzylphthalate | 107 | 55 | 120 |
| | 302525 | | 2515808 | Chrysene | 76.8 | 56 | 120 |
| | 302525 | | 2515808 | Dibenzo (a,h) anthracene | 84.5 | 54 | 120 |
| | 302525 | | 2515808 | Dibenzofuran | 88.8 | 58 | 120 |
| | 302525 | | 2515808 | Diethyl phthalate | 102 | 61 | 120 |
| | 302525 | | 2515808 | Dimethyl phthalate | 113 | 61 | 120 |
| | 302525 | | 2515808 | Di-n-butylphthalate | 98 | 52 | 120 |
| | 302525 | | 2515808 | Di-n-octylphthalate | 109 | 47 | 120 |
| | 302525 | | 2515808 | Fluoranthene | 83 | 64 | 120 |
| | 302525 | | 2515808 | Fluoranthene | 83 | 49 | 120 |
| | 302525 | | 2515808 | Fluorene | 78.2 | 57 | 120 |
| | 302525 | | 2515808 | Fluorene | 78.2 | 56 | 120 |
| | 302525 | | 2515808 | Hexachlorobenzene | 87.5 | 53 | 120 |
| | 302525 | | 2515808 | Hexachlorobutadiene | 73.2 | 40 | 120 |
| | 302525 | | 2515808 | Hexachlorobutadiene | 73.2 | 42 | 120 |
| | 302525 | | 2515808 | Hexachlorocyclopentadiene | 67.2 | 10 | 120 |
| | 302525 | | 2515808 | Hexachloroethane | 79 | 36 | 120 |
| | 302525 | | 2515808 | Indeno (1,2,3-c,d) pyrene | 83.8 | 56 | 120 |
| | 302525 | | 2515808 | Naphthalene | 69.2 | 46 | 120 |
| | 302525 | | 2515808 | Nitrobenzene | 88.5 | 41 | 120 |
| | 302525 | | 2515808 | n-Nitrosodi-n-propylamine | 98.2 | 57 | 120 |
| | 302525 | | 2515808 | n-Nitrosodiphenylamine | 102 | 58 | 120 |
| | 302525 | | 2515808 | Pentachlorophenol | 69.2 | 52 | 120 |
| | 302525 | | 2515808 | Phenanthrene | 77.5 | 57 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 302525 | WATER | 2515808 | Phenol | 53.5 | 52 | 120 |
| | 302525 | | 2515808 | Pyrene | 74.5 | 62 | 130 |
| | 303960 | | 2516238 | 1,2-Dichlorobenzene | 66.5 | 40 | 120 |
| | 303960 | | 2516238 | 1,2-Diphenylhydrazine | 84.8 | 55 | 120 |
| | 303960 | | 2516238 | 2,4,5-Trichlorophenol | 86 | 60 | 120 |
| | 303960 | | 2516238 | 2,4,6-Trichlorophenol | 86 | 52 | 120 |
| | 303960 | | 2516238 | 2,4-Dichlorophenol | 86.5 | 59 | 120 |
| | 303960 | | 2516238 | 2,4-Dimethylphenol | 76.5 | 41 | 120 |
| | 303960 | | 2516238 | 2,4-Dinitrophenol | 73.2 | 30 | 136 |
| | 303960 | | 2516238 | 2,4-Dinitrotoluene | 93.5 | 51 | 120 |
| | 303960 | | 2516238 | 2,6-Dinitrotoluene | 92.2 | 42 | 125 |
| | 303960 | | 2516238 | 2-Chloronaphthalene | 79.2 | 47 | 120 |
| | 303960 | | 2516238 | 2-Chlorophenol | 82.8 | 57 | 120 |
| | 303960 | | 2516238 | 2-Methylnaphthalene | 73 | 54 | 120 |
| | 303960 | | 2516238 | 2-Methylphenol | 74 | 50 | 120 |
| | 303960 | | 2516238 | 2-Nitroaniline | 75 | 44 | 120 |
| | 303960 | | 2516238 | 2-Nitrophenol | 87.8 | 51 | 120 |
| | 303960 | | 2516238 | 3,3'-Dichlorobenzidine | 89.4 | 29 | 120 |
| | 303960 | | 2516238 | 3-Nitroaniline | 81.5 | 49 | 120 |
| | 303960 | | 2516238 | 4,6-Dinitro-2-methylphenol | 82.2 | 37 | 126 |
| | 303960 | | 2516238 | 4-Bromophenyl phenyl ether | 88.8 | 52 | 120 |
| | 303960 | | 2516238 | 4-Chloro-3-methylphenol | 86.5 | 63 | 120 |
| | 303960 | | 2516238 | 4-Chloroaniline | 79 | 52 | 120 |
| | 303960 | | 2516238 | 4-Chlorophenyl phenyl ether | 89.5 | 56 | 120 |
| | 303960 | | 2516238 | 4-Methylphenol | 72.2 | 37 | 110 |
| | 303960 | | 2516238 | 4-Nitroaniline | 97.2 | 67 | 120 |
| | 303960 | | 2516238 | **4-Nitrophenol** | **45.2** | **49** | **124** |
| | 303960 | | 2516238 | Acenaphthene | 80.2 | 53 | 120 |
| | 303960 | | 2516238 | Acenaphthylene | 82.5 | 54 | 120 |
| | 303960 | | 2516238 | Anthracene | 91 | 56 | 120 |
| | 303960 | | 2516238 | Benzidine | 40.5 | 10 | 218 |
| | 303960 | | 2516238 | Benzo (a) anthracene | 90 | 54 | 120 |
| | 303960 | | 2516238 | Benzo (a) pyrene | 92.8 | 53 | 120 |
| | 303960 | | 2516238 | Benzo (b) fluoranthene | 88.5 | 57 | 120 |
| | 303960 | | 2516238 | Benzo (g,h,i) perylene | 93.5 | 53 | 120 |
| | 303960 | | 2516238 | Benzo (k) fluoranthene | 78.5 | 54 | 120 |
| | 303960 | | 2516238 | **Benzoic acid** | **13.3** | **16** | **120** |
| | 303960 | | 2516238 | Bis (2-chloroethoxy) methane | 85.8 | 52 | 120 |
| | 303960 | | 2516238 | Bis (2-chloroethyl) ether | 83.2 | 49 | 120 |
| | 303960 | | 2516238 | Bis (2-ethylhexyl) phthalate | 99 | 48 | 120 |
| | 303960 | | 2516238 | Butyl benzylphthalate | 97.2 | 55 | 120 |
| | 303960 | | 2516238 | Chrysene | 83.5 | 56 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 303960 | WATER | 2516238 | Dibenzo (a,h) anthracene | 98 | 54 | 120 |
| | 303960 | | 2516238 | Dibenzofuran | 77.2 | 58 | 120 |
| | 303960 | | 2516238 | Diethyl phthalate | 92.8 | 61 | 120 |
| | 303960 | | 2516238 | Dimethyl phthalate | 91.8 | 61 | 120 |
| | 303960 | | 2516238 | Di-n-butylphthalate | 97.2 | 52 | 120 |
| | 303960 | | 2516238 | Di-n-octylphthalate | 97.2 | 47 | 120 |
| | 303960 | | 2516238 | Fluoranthene | 96.2 | 49 | 120 |
| | 303960 | | 2516238 | Fluoranthene | 96.2 | 64 | 120 |
| | 303960 | | 2516238 | Fluorene | 84 | 56 | 120 |
| | 303960 | | 2516238 | Fluorene | 84 | 57 | 120 |
| | 303960 | | 2516238 | Hexachlorobenzene | 87.5 | 53 | 120 |
| | 303960 | | 2516238 | Hexachlorobutadiene | 69.5 | 42 | 120 |
| | 303960 | | 2516238 | Hexachlorobutadiene | 69.5 | 40 | 120 |
| | 303960 | | 2516238 | Hexachlorocyclopentadiene | 52.5 | 10 | 120 |
| | 303960 | | 2516238 | Hexachloroethane | 59.5 | 36 | 120 |
| | 303960 | | 2516238 | Indeno (1,2,3-c,d) pyrene | 96.2 | 56 | 120 |
| | 303960 | | 2516238 | Naphthalene | 75 | 46 | 120 |
| | 303960 | | 2516238 | Nitrobenzene | 77.5 | 41 | 120 |
| | 303960 | | 2516238 | n-Nitrosodi-n-propylamine | 84 | 57 | 120 |
| | 303960 | | 2516238 | n-Nitrosodiphenylamine | 92.2 | 58 | 120 |
| | 303960 | | 2516238 | Pentachlorophenol | 73.5 | 52 | 120 |
| | 303960 | | 2516238 | Phenanthrene | 83 | 57 | 120 |
| | 303960 | | 2516238 | **Phenol** | **46.2** | **52** | **120** |
| | 303960 | | 2516238 | Pyrene | 87 | 62 | 130 |
| | 303961 | | 2516238 | 1,2-Dichlorobenzene | 78.8 | 40 | 120 |
| | 303961 | | 2516238 | 1,2-Diphenylhydrazine | 96 | 55 | 120 |
| | 303961 | | 2516238 | 2,4,5-Trichlorophenol | 100 | 60 | 120 |
| | 303961 | | 2516238 | 2,4,6-Trichlorophenol | 100 | 52 | 120 |
| | 303961 | | 2516238 | 2,4-Dichlorophenol | 98 | 59 | 120 |
| | 303961 | | 2516238 | 2,4-Dimethylphenol | 88.2 | 41 | 120 |
| | 303961 | | 2516238 | 2,4-Dinitrophenol | 103 | 30 | 136 |
| | 303961 | | 2516238 | 2,4-Dinitrotoluene | 108 | 51 | 120 |
| | 303961 | | 2516238 | 2,6-Dinitrotoluene | 104 | 42 | 125 |
| | 303961 | | 2516238 | 2-Chloronaphthalene | 90 | 47 | 120 |
| | 303961 | | 2516238 | 2-Chlorophenol | 92.5 | 57 | 120 |
| | 303961 | | 2516238 | 2-Methylnaphthalene | 83.5 | 54 | 120 |
| | 303961 | | 2516238 | 2-Methylphenol | 84.2 | 50 | 120 |
| | 303961 | | 2516238 | 2-Nitroaniline | 83 | 44 | 120 |
| | 303961 | | 2516238 | 2-Nitrophenol | 99.5 | 51 | 120 |
| | 303961 | | 2516238 | 3,3'-Dichlorobenzidine | 99.9 | 29 | 120 |
| | 303961 | | 2516238 | 3-Nitroaniline | 91.8 | 49 | 120 |
| | 303961 | | 2516238 | 4,6-Dinitro-2-methylphenol | 101 | 37 | 126 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 303961 | WATER | 2516238 | 4-Bromophenyl phenyl ether | 99.8 | 52 | 120 |
| | 303961 | | 2516238 | 4-Chloro-3-methylphenol | 97.5 | 63 | 120 |
| | 303961 | | 2516238 | 4-Chloroaniline | 88.8 | 52 | 120 |
| | 303961 | | 2516238 | 4-Chlorophenyl phenyl ether | 101 | 56 | 120 |
| | 303961 | | 2516238 | 4-Methylphenol | 81.5 | 37 | 110 |
| | 303961 | | 2516238 | 4-Nitroaniline | 112 | 67 | 120 |
| | 303961 | | 2516238 | 4-Nitrophenol | 51.5 | 49 | 124 |
| | 303961 | | 2516238 | Acenaphthene | 103 | 53 | 120 |
| | 303961 | | 2516238 | Acenaphthylene | 93.8 | 54 | 120 |
| | 303961 | | 2516238 | Anthracene | 102 | 56 | 120 |
| | 303961 | | 2516238 | Benzidine | 61 | 10 | 218 |
| | 303961 | | 2516238 | Benzo (a) anthracene | 102 | 54 | 120 |
| | 303961 | | 2516238 | Benzo (a) pyrene | 103 | 53 | 120 |
| | 303961 | | 2516238 | Benzo (b) fluoranthene | 96.2 | 57 | 120 |
| | 303961 | | 2516238 | Benzo (g,h,i) perylene | 98.8 | 53 | 120 |
| | 303961 | | 2516238 | Benzo (k) fluoranthene | 88.2 | 54 | 120 |
| | 303961 | | 2516238 | Benzoic acid | 17.7 | 16 | 120 |
| | 303961 | | 2516238 | Bis (2-chloroethoxy) methane | 96.8 | 52 | 120 |
| | 303961 | | 2516238 | Bis (2-chloroethyl) ether | 93 | 49 | 120 |
| | 303961 | | 2516238 | **Bis (2-ethylhexyl) phthalate** | **225** | **48** | **120** |
| | 303961 | | 2516238 | Butyl benzylphthalate | 110 | 55 | 120 |
| | 303961 | | 2516238 | Chrysene | 92 | 56 | 120 |
| | 303961 | | 2516238 | Dibenzo (a,h) anthracene | 106 | 54 | 120 |
| | 303961 | | 2516238 | Dibenzofuran | 88.5 | 58 | 120 |
| | 303961 | | 2516238 | Diethyl phthalate | 105 | 61 | 120 |
| | 303961 | | 2516238 | Dimethyl phthalate | 102 | 61 | 120 |
| | 303961 | | 2516238 | Di-n-butylphthalate | 108 | 52 | 120 |
| | 303961 | | 2516238 | **Di-n-octylphthalate** | **216** | **47** | **120** |
| | 303961 | | 2516238 | Fluoranthene | 106 | 49 | 120 |
| | 303961 | | 2516238 | Fluoranthene | 106 | 64 | 120 |
| | 303961 | | 2516238 | Fluorene | 94.5 | 56 | 120 |
| | 303961 | | 2516238 | Fluorene | 94.5 | 57 | 120 |
| | 303961 | | 2516238 | Hexachlorobenzene | 98.2 | 53 | 120 |
| | 303961 | | 2516238 | Hexachlorobutadiene | 81 | 42 | 120 |
| | 303961 | | 2516238 | Hexachlorobutadiene | 81 | 40 | 120 |
| | 303961 | | 2516238 | Hexachlorocyclopentadiene | 66.5 | 10 | 120 |
| | 303961 | | 2516238 | Hexachloroethane | 71.2 | 36 | 120 |
| | 303961 | | 2516238 | Indeno (1,2,3-c,d) pyrene | 103 | 56 | 120 |
| | 303961 | | 2516238 | Naphthalene | 86 | 46 | 120 |
| | 303961 | | 2516238 | Nitrobenzene | 87.8 | 41 | 120 |
| | 303961 | | 2516238 | n-Nitrosodi-n-propylamine | 93.5 | 57 | 120 |
| | 303961 | | 2516238 | n-Nitrosodiphenylamine | 103 | 58 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 303961 | WATER | 2516238 | Pentachlorophenol | 96 | 52 | 120 |
| | 303961 | | 2516238 | Phenanthrene | 93.5 | 57 | 120 |
| | 303961 | | 2516238 | Phenol | 52 | 52 | 120 |
| | 303961 | | 2516238 | Pyrene | 97.2 | 62 | 130 |
| | 304040 | | 2516259 | 1,2-Dichlorobenzene | 71 | 40 | 120 |
| | 304040 | | 2516259 | 1,2-Diphenylhydrazine | 87.5 | 55 | 120 |
| | 304040 | | 2516259 | 2,4,5-Trichlorophenol | 85.8 | 60 | 120 |
| | 304040 | | 2516259 | 2,4,6-Trichlorophenol | 86.5 | 52 | 120 |
| | 304040 | | 2516259 | 2,4-Dichlorophenol | 85 | 59 | 120 |
| | 304040 | | 2516259 | 2,4-Dimethylphenol | 80.8 | 41 | 120 |
| | 304040 | | 2516259 | 2,4-Dinitrophenol | 93.4 | 30 | 136 |
| | 304040 | | 2516259 | 2,4-Dinitrotoluene | 92.8 | 51 | 120 |
| | 304040 | | 2516259 | 2,6-Dinitrotoluene | 90 | 42 | 125 |
| | 304040 | | 2516259 | 2-Chloronaphthalene | 81.2 | 47 | 120 |
| | 304040 | | 2516259 | 2-Chlorophenol | 83.2 | 57 | 120 |
| | 304040 | | 2516259 | 2-Methylnaphthalene | 74.5 | 54 | 120 |
| | 304040 | | 2516259 | 2-Methylphenol | 78.5 | 50 | 120 |
| | 304040 | | 2516259 | 2-Nitroaniline | 75 | 44 | 120 |
| | 304040 | | 2516259 | 2-Nitrophenol | 86.5 | 51 | 120 |
| | 304040 | | 2516259 | 3,3'-Dichlorobenzidine | 87.1 | 29 | 120 |
| | 304040 | | 2516259 | 3-Nitroaniline | 80 | 49 | 120 |
| | 304040 | | 2516259 | 4,6-Dinitro-2-methylphenol | 89.2 | 37 | 126 |
| | 304040 | | 2516259 | 4-Bromophenyl phenyl ether | 85 | 52 | 120 |
| | 304040 | | 2516259 | 4-Chloro-3-methylphenol | 86.8 | 63 | 120 |
| | 304040 | | 2516259 | 4-Chloroaniline | 81.2 | 52 | 120 |
| | 304040 | | 2516259 | 4-Chlorophenyl phenyl ether | 88.2 | 56 | 120 |
| | 304040 | | 2516259 | 4-Methylphenol | 74.8 | 37 | 110 |
| | 304040 | | 2516259 | 4-Nitroaniline | 95.2 | 67 | 120 |
| | 304040 | | 2516259 | **4-Nitrophenol** | **45** | **49** | **124** |
| | 304040 | | 2516259 | Acenaphthene | 84 | 53 | 120 |
| | 304040 | | 2516259 | Acenaphthylene | 83.2 | 54 | 120 |
| | 304040 | | 2516259 | Anthracene | 90.8 | 56 | 120 |
| | 304040 | | 2516259 | Benzidine | 30.8 | 10 | 218 |
| | 304040 | | 2516259 | Benzo (a) anthracene | 88.2 | 54 | 120 |
| | 304040 | | 2516259 | Benzo (a) pyrene | 93.5 | 53 | 120 |
| | 304040 | | 2516259 | Benzo (b) fluoranthene | 82.8 | 57 | 120 |
| | 304040 | | 2516259 | Benzo (g,h,i) perylene | 90.5 | 53 | 120 |
| | 304040 | | 2516259 | Benzo (k) fluoranthene | 81.2 | 54 | 120 |
| | 304040 | | 2516259 | Benzoic acid | 19.6 | 16 | 120 |
| | 304040 | | 2516259 | Bis (2-chloroethoxy) methane | 87.5 | 52 | 120 |
| | 304040 | | 2516259 | Bis (2-chloroethyl) ether | 85 | 49 | 120 |
| | 304040 | | 2516259 | Bis (2-ethylhexyl) phthalate | 111 | 48 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304040 | WATER | 2516259 | Butyl benzylphthalate | 97.5 | 55 | 120 |
| | 304040 | | 2516259 | Chrysene | 82.8 | 56 | 120 |
| | 304040 | | 2516259 | Dibenzo (a,h) anthracene | 96.5 | 54 | 120 |
| | 304040 | | 2516259 | Dibenzofuran | 77.5 | 58 | 120 |
| | 304040 | | 2516259 | Diethyl phthalate | 91.2 | 61 | 120 |
| | 304040 | | 2516259 | Dimethyl phthalate | 89 | 61 | 120 |
| | 304040 | | 2516259 | Di-n-butylphthalate | 96 | 52 | 120 |
| | 304040 | | 2516259 | Di-n-octylphthalate | 108 | 47 | 120 |
| | 304040 | | 2516259 | Fluoranthene | 95.2 | 49 | 120 |
| | 304040 | | 2516259 | Fluoranthene | 95.2 | 64 | 120 |
| | 304040 | | 2516259 | Fluorene | 83.5 | 56 | 120 |
| | 304040 | | 2516259 | Fluorene | 83.5 | 57 | 120 |
| | 304040 | | 2516259 | Hexachlorobenzene | 85 | 53 | 120 |
| | 304040 | | 2516259 | Hexachlorobutadiene | 71.8 | 40 | 120 |
| | 304040 | | 2516259 | Hexachlorobutadiene | 71.8 | 42 | 120 |
| | 304040 | | 2516259 | Hexachlorocyclopentadiene | 61 | 10 | 120 |
| | 304040 | | 2516259 | Hexachloroethane | 65 | 36 | 120 |
| | 304040 | | 2516259 | Indeno (1,2,3-c,d) pyrene | 94.2 | 56 | 120 |
| | 304040 | | 2516259 | Naphthalene | 77 | 46 | 120 |
| | 304040 | | 2516259 | Nitrobenzene | 80 | 41 | 120 |
| | 304040 | | 2516259 | n-Nitrosodi-n-propylamine | 86.5 | 57 | 120 |
| | 304040 | | 2516259 | n-Nitrosodiphenylamine | 91.5 | 58 | 120 |
| | 304040 | | 2516259 | Pentachlorophenol | 82 | 52 | 120 |
| | 304040 | | 2516259 | Phenanthrene | 82.5 | 57 | 120 |
| | 304040 | | 2516259 | **Phenol** | **50** | **52** | **120** |
| | 304040 | | 2516259 | Pyrene | 86.5 | 62 | 130 |
| | 304041 | | 2516259 | 1,2-Dichlorobenzene | 76.2 | 40 | 120 |
| | 304041 | | 2516259 | 1,2-Diphenylhydrazine | 95.2 | 55 | 120 |
| | 304041 | | 2516259 | 2,4,5-Trichlorophenol | 93.8 | 60 | 120 |
| | 304041 | | 2516259 | 2,4,6-Trichlorophenol | 91.8 | 52 | 120 |
| | 304041 | | 2516259 | 2,4-Dichlorophenol | 94.2 | 59 | 120 |
| | 304041 | | 2516259 | 2,4-Dimethylphenol | 84.2 | 41 | 120 |
| | 304041 | | 2516259 | 2,4-Dinitrophenol | 103 | 30 | 136 |
| | 304041 | | 2516259 | 2,4-Dinitrotoluene | 103 | 51 | 120 |
| | 304041 | | 2516259 | 2,6-Dinitrotoluene | 98.8 | 42 | 125 |
| | 304041 | | 2516259 | 2-Chloronaphthalene | 85.5 | 47 | 120 |
| | 304041 | | 2516259 | 2-Chlorophenol | 90.8 | 57 | 120 |
| | 304041 | | 2516259 | 2-Methylnaphthalene | 80 | 54 | 120 |
| | 304041 | | 2516259 | 2-Methylphenol | 85.2 | 50 | 120 |
| | 304041 | | 2516259 | 2-Nitroaniline | 81.5 | 44 | 120 |
| | 304041 | | 2516259 | 2-Nitrophenol | 92 | 51 | 120 |
| | 304041 | | 2516259 | 3,3'-Dichlorobenzidine | 93.2 | 29 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304041 | WATER | 2516259 | 3-Nitroaniline | 89.5 | 49 | 120 |
| | 304041 | | 2516259 | 4,6-Dinitro-2-methylphenol | 99.2 | 37 | 126 |
| | 304041 | | 2516259 | 4-Bromophenyl phenyl ether | 95 | 52 | 120 |
| | 304041 | | 2516259 | 4-Chloro-3-methylphenol | 94.8 | 63 | 120 |
| | 304041 | | 2516259 | 4-Chloroaniline | 86.8 | 52 | 120 |
| | 304041 | | 2516259 | 4-Chlorophenyl phenyl ether | 96.8 | 56 | 120 |
| | 304041 | | 2516259 | 4-Methylphenol | 80 | 37 | 110 |
| | 304041 | | 2516259 | 4-Nitroaniline | 108 | 67 | 120 |
| | 304041 | | 2516259 | 4-Nitrophenol | 49.2 | 49 | 124 |
| | 304041 | | 2516259 | Acenaphthene | 88 | 53 | 120 |
| | 304041 | | 2516259 | Acenaphthylene | 89.2 | 54 | 120 |
| | 304041 | | 2516259 | Anthracene | 99.5 | 56 | 120 |
| | 304041 | | 2516259 | Benzidine | 48.5 | 10 | 218 |
| | 304041 | | 2516259 | Benzo (a) anthracene | 97 | 54 | 120 |
| | 304041 | | 2516259 | Benzo (a) pyrene | 98.5 | 53 | 120 |
| | 304041 | | 2516259 | Benzo (b) fluoranthene | 97.5 | 57 | 120 |
| | 304041 | | 2516259 | Benzo (g,h,i) perylene | 98.5 | 53 | 120 |
| | 304041 | | 2516259 | Benzo (k) fluoranthene | 82.8 | 54 | 120 |
| | 304041 | | 2516259 | Benzoic acid | 25.4 | 16 | 120 |
| | 304041 | | 2516259 | Bis (2-chloroethoxy) methane | 94.5 | 52 | 120 |
| | 304041 | | 2516259 | Bis (2-chloroethyl) ether | 93.5 | 49 | 120 |
| | 304041 | | 2516259 | Bis (2-ethylhexyl) phthalate | 108 | 48 | 120 |
| | 304041 | | 2516259 | Butyl benzylphthalate | 107 | 55 | 120 |
| | 304041 | | 2516259 | Chrysene | 89.2 | 56 | 120 |
| | 304041 | | 2516259 | Dibenzo (a,h) anthracene | 106 | 54 | 120 |
| | 304041 | | 2516259 | Dibenzofuran | 82.8 | 58 | 120 |
| | 304041 | | 2516259 | Diethyl phthalate | 101 | 61 | 120 |
| | 304041 | | 2516259 | Dimethyl phthalate | 98 | 61 | 120 |
| | 304041 | | 2516259 | Di-n-butylphthalate | 106 | 52 | 120 |
| | 304041 | | 2516259 | Di-n-octylphthalate | 105 | 47 | 120 |
| | 304041 | | 2516259 | Fluoranthene | 104 | 49 | 120 |
| | 304041 | | 2516259 | Fluoranthene | 104 | 64 | 120 |
| | 304041 | | 2516259 | Fluorene | 90.8 | 57 | 120 |
| | 304041 | | 2516259 | Fluorene | 90.8 | 56 | 120 |
| | 304041 | | 2516259 | Hexachlorobenzene | 93.5 | 53 | 120 |
| | 304041 | | 2516259 | Hexachlorobutadiene | 76.5 | 40 | 120 |
| | 304041 | | 2516259 | Hexachlorobutadiene | 76.5 | 42 | 120 |
| | 304041 | | 2516259 | Hexachlorocyclopentadiene | 57.8 | 10 | 120 |
| | 304041 | | 2516259 | Hexachloroethane | 70 | 36 | 120 |
| | 304041 | | 2516259 | Indeno (1,2,3-c,d) pyrene | 104 | 56 | 120 |
| | 304041 | | 2516259 | Naphthalene | 82 | 46 | 120 |
| | 304041 | | 2516259 | Nitrobenzene | 86 | 41 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304041 | WATER | 2516259 | n-Nitrosodi-n-propylamine | 92 | 57 | 120 |
| | 304041 | | 2516259 | n-Nitrosodiphenylamine | 100 | 58 | 120 |
| | 304041 | | 2516259 | Pentachlorophenol | 91.5 | 52 | 120 |
| | 304041 | | 2516259 | Phenanthrene | 91 | 57 | 120 |
| | 304041 | | 2516259 | Phenol | 52.8 | 52 | 120 |
| | 304041 | | 2516259 | Pyrene | 93.5 | 62 | 130 |
| | 304128 | | 2516299 | 1,2-Dichlorobenzene | 75 | 40 | 120 |
| | 304128 | | 2516299 | 1,2-Diphenylhydrazine | 89.8 | 55 | 120 |
| | 304128 | | 2516299 | 2,4,5-Trichlorophenol | 94.8 | 60 | 120 |
| | 304128 | | 2516299 | 2,4,6-Trichlorophenol | 91.2 | 52 | 120 |
| | 304128 | | 2516299 | 2,4-Dichlorophenol | 92 | 59 | 120 |
| | 304128 | | 2516299 | 2,4-Dimethylphenol | 89.8 | 41 | 120 |
| | 304128 | | 2516299 | 2,4-Dinitrophenol | 108 | 30 | 136 |
| | 304128 | | 2516299 | 2,4-Dinitrotoluene | 99.2 | 51 | 120 |
| | 304128 | | 2516299 | 2,6-Dinitrotoluene | 94.8 | 42 | 125 |
| | 304128 | | 2516299 | 2-Chloronaphthalene | 84.2 | 47 | 120 |
| | 304128 | | 2516299 | 2-Chlorophenol | 88.2 | 57 | 120 |
| | 304128 | | 2516299 | 2-Methylnaphthalene | 79 | 54 | 120 |
| | 304128 | | 2516299 | 2-Methylphenol | 82.8 | 50 | 120 |
| | 304128 | | 2516299 | 2-Nitroaniline | 77.8 | 44 | 120 |
| | 304128 | | 2516299 | 2-Nitrophenol | 94.2 | 51 | 120 |
| | 304128 | | 2516299 | **3,3'-Dichlorobenzidine** | **8.5** | **29** | **120** |
| | 304128 | | 2516299 | **3-Nitroaniline** | **18** | **49** | **120** |
| | 304128 | | 2516299 | 4,6-Dinitro-2-methylphenol | 99.8 | 37 | 126 |
| | 304128 | | 2516299 | 4-Bromophenyl phenyl ether | 92.2 | 52 | 120 |
| | 304128 | | 2516299 | 4-Chloro-3-methylphenol | 93.5 | 63 | 120 |
| | 304128 | | 2516299 | **4-Chloroaniline** | **18** | **52** | **120** |
| | 304128 | | 2516299 | 4-Chlorophenyl phenyl ether | 93 | 56 | 120 |
| | 304128 | | 2516299 | 4-Methylphenol | 78.5 | 37 | 110 |
| | 304128 | | 2516299 | **4-Nitroaniline** | **49.8** | **67** | **120** |
| | 304128 | | 2516299 | 4-Nitrophenol | 52.8 | 49 | 124 |
| | 304128 | | 2516299 | Acenaphthene | 97.5 | 53 | 120 |
| | 304128 | | 2516299 | Acenaphthylene | 88 | 54 | 120 |
| | 304128 | | 2516299 | Anthracene | 96.5 | 56 | 120 |
| | 304128 | | 2516299 | **Benzidine** | **0** | **10** | **218** |
| | 304128 | | 2516299 | Benzo (a) anthracene | 93.8 | 54 | 120 |
| | 304128 | | 2516299 | Benzo (a) pyrene | 98.2 | 53 | 120 |
| | 304128 | | 2516299 | Benzo (b) fluoranthene | 97.8 | 57 | 120 |
| | 304128 | | 2516299 | Benzo (g,h,i) perylene | 98.2 | 53 | 120 |
| | 304128 | | 2516299 | Benzo (k) fluoranthene | 85.2 | 54 | 120 |
| | 304128 | | 2516299 | Benzoic acid | 36.8 | 16 | 120 |
| | 304128 | | 2516299 | Bis (2-chloroethoxy) methane | 92.2 | 52 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304128 | WATER | 2516299 | Bis (2-chloroethyl) ether | 90.2 | 49 | 120 |
| | 304128 | | 2516299 | **Bis (2-ethylhexyl) phthalate** | **122** | **48** | **120** |
| | 304128 | | 2516299 | Butyl benzylphthalate | 109 | 55 | 120 |
| | 304128 | | 2516299 | Chrysene | 90.2 | 56 | 120 |
| | 304128 | | 2516299 | Dibenzo (a,h) anthracene | 107 | 54 | 120 |
| | 304128 | | 2516299 | Dibenzofuran | 81.5 | 58 | 120 |
| | 304128 | | 2516299 | Diethyl phthalate | 96.8 | 61 | 120 |
| | 304128 | | 2516299 | Dimethyl phthalate | 95.8 | 61 | 120 |
| | 304128 | | 2516299 | Di-n-butylphthalate | 100 | 52 | 120 |
| | 304128 | | 2516299 | Di-n-octylphthalate | 120 | 47 | 120 |
| | 304128 | | 2516299 | Fluoranthene | 99.2 | 64 | 120 |
| | 304128 | | 2516299 | Fluoranthene | 99.2 | 49 | 120 |
| | 304128 | | 2516299 | Fluorene | 88.5 | 56 | 120 |
| | 304128 | | 2516299 | Fluorene | 88.5 | 57 | 120 |
| | 304128 | | 2516299 | Hexachlorobenzene | 90 | 53 | 120 |
| | 304128 | | 2516299 | Hexachlorobutadiene | 76.2 | 42 | 120 |
| | 304128 | | 2516299 | Hexachlorobutadiene | 76.2 | 40 | 120 |
| | 304128 | | 2516299 | Hexachlorocyclopentadiene | 48.2 | 10 | 120 |
| | 304128 | | 2516299 | Hexachloroethane | 67.2 | 36 | 120 |
| | 304128 | | 2516299 | Indeno (1,2,3-c,d) pyrene | 104 | 56 | 120 |
| | 304128 | | 2516299 | Naphthalene | 81.5 | 46 | 120 |
| | 304128 | | 2516299 | Nitrobenzene | 84 | 41 | 120 |
| | 304128 | | 2516299 | n-Nitrosodi-n-propylamine | 90 | 57 | 120 |
| | 304128 | | 2516299 | n-Nitrosodiphenylamine | 67.2 | 58 | 120 |
| | 304128 | | 2516299 | Pentachlorophenol | 101 | 52 | 120 |
| | 304128 | | 2516299 | Phenanthrene | 86.8 | 57 | 120 |
| | 304128 | | 2516299 | **Phenol** | **45** | **52** | **120** |
| | 304128 | | 2516299 | Pyrene | 94 | 62 | 130 |
| | 304129 | | 2516299 | 1,2-Dichlorobenzene | 77.8 | 40 | 120 |
| | 304129 | | 2516299 | 1,2-Diphenylhydrazine | 96.8 | 55 | 120 |
| | 304129 | | 2516299 | 2,4,5-Trichlorophenol | 98 | 60 | 120 |
| | 304129 | | 2516299 | 2,4,6-Trichlorophenol | 96.5 | 52 | 120 |
| | 304129 | | 2516299 | 2,4-Dichlorophenol | 95 | 59 | 120 |
| | 304129 | | 2516299 | 2,4-Dimethylphenol | 78.8 | 41 | 120 |
| | 304129 | | 2516299 | 2,4-Dinitrophenol | 117 | 30 | 136 |
| | 304129 | | 2516299 | 2,4-Dinitrotoluene | 106 | 51 | 120 |
| | 304129 | | 2516299 | 2,6-Dinitrotoluene | 102 | 42 | 125 |
| | 304129 | | 2516299 | 2-Chloronaphthalene | 88.2 | 47 | 120 |
| | 304129 | | 2516299 | 2-Chlorophenol | 91.8 | 57 | 120 |
| | 304129 | | 2516299 | 2-Methylnaphthalene | 81.8 | 54 | 120 |
| | 304129 | | 2516299 | 2-Methylphenol | 84.2 | 50 | 120 |
| | 304129 | | 2516299 | 2-Nitroaniline | 86 | 44 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304129 | WATER | 2516299 | 2-Nitrophenol | 97 | 51 | 120 |
| | 304129 | | 2516299 | 3,3'-Dichlorobenzidine | 88 | 29 | 120 |
| | 304129 | | 2516299 | 3-Nitroaniline | 87 | 49 | 120 |
| | 304129 | | 2516299 | 4,6-Dinitro-2-methylphenol | 106 | 37 | 126 |
| | 304129 | | 2516299 | 4-Bromophenyl phenyl ether | 97.5 | 52 | 120 |
| | 304129 | | 2516299 | 4-Chloro-3-methylphenol | 97.2 | 63 | 120 |
| | 304129 | | 2516299 | 4-Chloroaniline | 82.2 | 52 | 120 |
| | 304129 | | 2516299 | 4-Chlorophenyl phenyl ether | 97.8 | 56 | 120 |
| | 304129 | | 2516299 | 4-Methylphenol | 81.5 | 37 | 110 |
| | 304129 | | 2516299 | 4-Nitroaniline | 107 | 67 | 120 |
| | 304129 | | 2516299 | 4-Nitrophenol | 57.5 | 49 | 124 |
| | 304129 | | 2516299 | Acenaphthene | 90 | 53 | 120 |
| | 304129 | | 2516299 | Acenaphthylene | 91.2 | 54 | 120 |
| | 304129 | | 2516299 | Anthracene | 100 | 56 | 120 |
| | 304129 | | 2516299 | **Benzidine** | **0** | **10** | **218** |
| | 304129 | | 2516299 | Benzo (a) anthracene | 99.8 | 54 | 120 |
| | 304129 | | 2516299 | Benzo (a) pyrene | 99 | 53 | 120 |
| | 304129 | | 2516299 | Benzo (b) fluoranthene | 97.8 | 57 | 120 |
| | 304129 | | 2516299 | Benzo (g,h,i) perylene | 98 | 53 | 120 |
| | 304129 | | 2516299 | Benzo (k) fluoranthene | 85 | 54 | 120 |
| | 304129 | | 2516299 | Benzoic acid | 43.1 | 16 | 120 |
| | 304129 | | 2516299 | Bis (2-chloroethoxy) methane | 97.2 | 52 | 120 |
| | 304129 | | 2516299 | Bis (2-chloroethyl) ether | 93.8 | 49 | 120 |
| | 304129 | | 2516299 | Bis (2-ethylhexyl) phthalate | 111 | 48 | 120 |
| | 304129 | | 2516299 | Butyl benzylphthalate | 111 | 55 | 120 |
| | 304129 | | 2516299 | Chrysene | 91 | 56 | 120 |
| | 304129 | | 2516299 | Dibenzo (a,h) anthracene | 107 | 54 | 120 |
| | 304129 | | 2516299 | Dibenzofuran | 85.2 | 58 | 120 |
| | 304129 | | 2516299 | Diethyl phthalate | 104 | 61 | 120 |
| | 304129 | | 2516299 | Dimethyl phthalate | 98.5 | 61 | 120 |
| | 304129 | | 2516299 | Di-n-butylphthalate | 108 | 52 | 120 |
| | 304129 | | 2516299 | Di-n-octylphthalate | 105 | 47 | 120 |
| | 304129 | | 2516299 | Fluoranthene | 105 | 49 | 120 |
| | 304129 | | 2516299 | Fluoranthene | 105 | 64 | 120 |
| | 304129 | | 2516299 | Fluorene | 92 | 57 | 120 |
| | 304129 | | 2516299 | Fluorene | 92 | 56 | 120 |
| | 304129 | | 2516299 | Hexachlorobenzene | 95 | 53 | 120 |
| | 304129 | | 2516299 | Hexachlorobutadiene | 80.8 | 40 | 120 |
| | 304129 | | 2516299 | Hexachlorobutadiene | 80.8 | 42 | 120 |
| | 304129 | | 2516299 | Hexachlorocyclopentadiene | 52.8 | 10 | 120 |
| | 304129 | | 2516299 | Hexachloroethane | 71 | 36 | 120 |
| | 304129 | | 2516299 | Indeno (1,2,3-c,d) pyrene | 105 | 56 | 120 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | |
| | 304129 | WATER | 2516299 | Naphthalene | 84.5 | 46 | 120 |
| | 304129 | | 2516299 | Nitrobenzene | 87.5 | 41 | 120 |
| | 304129 | | 2516299 | n-Nitrosodi-n-propylamine | 96 | 57 | 120 |
| | 304129 | | 2516299 | n-Nitrosodiphenylamine | 101 | 58 | 120 |
| | 304129 | | 2516299 | Pentachlorophenol | 108 | 52 | 120 |
| | 304129 | | 2516299 | Phenanthrene | 91 | 57 | 120 |
| | 304129 | | 2516299 | Phenol | 54.8 | 52 | 120 |
| | 304129 | | 2516299 | Pyrene | 94.2 | 62 | 130 |
| **SW8310** | | | | | | | |
| | 301840 | WATER | 2515580 | 1-Methylnaphthalene | 87 | 68 | 114 |
| | 301840 | | 2515580 | 2-Methylnaphthalene | 78 | 62 | 108 |
| | 301840 | | 2515580 | Acenaphthene | 81 | 63 | 115 |
| | 301840 | | 2515580 | Acenaphthylene | 80 | 46 | 115 |
| | 301840 | | 2515580 | Anthracene | 85 | 59 | 115 |
| | 301840 | | 2515580 | Benz(a)anthracene | 79 | 73 | 115 |
| | 301840 | | 2515580 | Benzo(a)pyrene | 82 | 68 | 115 |
| | 301840 | | 2515580 | Benzo(b)fluoranthene | 80 | 74 | 115 |
| | 301840 | | 2515580 | Benzo(g,h,i)perylene | 78 | 68 | 115 |
| | 301840 | | 2515580 | **Benzo(k)fluoranthene** | **81** | **83** | **115** |
| | 301840 | | 2515580 | Chrysene | 80 | 68 | 115 |
| | 301840 | | 2515580 | **Dibenz(a,h)anthracene** | **76** | **77** | **115** |
| | 301840 | | 2515580 | Fluoranthene | 83 | 67 | 115 |
| | 301840 | | 2515580 | Fluorene | 79 | 58 | 116 |
| | 301840 | | 2515580 | Indeno(1,2,3-cd)pyrene | 82 | 52 | 115 |
| | 301840 | | 2515580 | Naphthalene | 82 | 72 | 115 |
| | 301840 | | 2515580 | Phenanthrene | 81 | 56 | 115 |
| | 301840 | | 2515580 | Pyrene | 84 | 72 | 115 |
| | 301907 | | 2515592 | 1-Methylnaphthalene | 95 | 68 | 114 |
| | 301907 | | 2515603 | 1-Methylnaphthalene | 95 | 68 | 114 |
| | 301907 | | 2515603 | 2-Methylnaphthalene | 84 | 62 | 108 |
| | 301907 | | 2515592 | 2-Methylnaphthalene | 84 | 62 | 108 |
| | 301907 | | 2515603 | Acenaphthene | 88 | 63 | 115 |
| | 301907 | | 2515592 | Acenaphthene | 88 | 63 | 115 |
| | 301907 | | 2515592 | Acenaphthylene | 87 | 46 | 115 |
| | 301907 | | 2515603 | Acenaphthylene | 87 | 46 | 115 |
| | 301907 | | 2515592 | Anthracene | 90 | 59 | 115 |
| | 301907 | | 2515603 | Anthracene | 90 | 59 | 115 |
| | 301907 | | 2515603 | Benz(a)anthracene | 84 | 73 | 115 |
| | 301907 | | 2515592 | Benz(a)anthracene | 84 | 73 | 115 |
| | 301907 | | 2515603 | Benzo(a)pyrene | 92 | 68 | 115 |
| | 301907 | | 2515592 | Benzo(a)pyrene | 92 | 68 | 115 |
| | 301907 | | 2515603 | Benzo(b)fluoranthene | 86 | 74 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 301907 | WATER | 2515592 | Benzo(b)fluoranthene | 86 | 74 | 115 |
| | 301907 | | 2515603 | Benzo(g,h,i)perylene | 85 | 68 | 115 |
| | 301907 | | 2515592 | Benzo(g,h,i)perylene | 85 | 68 | 115 |
| | 301907 | | 2515592 | Benzo(k)fluoranthene | 87 | 83 | 115 |
| | 301907 | | 2515603 | Benzo(k)fluoranthene | 87 | 83 | 115 |
| | 301907 | | 2515603 | Chrysene | 86 | 68 | 115 |
| | 301907 | | 2515592 | Chrysene | 86 | 68 | 115 |
| | 301907 | | 2515603 | Dibenz(a,h)anthracene | 82 | 77 | 115 |
| | 301907 | | 2515592 | Dibenz(a,h)anthracene | 82 | 77 | 115 |
| | 301907 | | 2515592 | Fluoranthene | 88 | 67 | 115 |
| | 301907 | | 2515603 | Fluoranthene | 88 | 67 | 115 |
| | 301907 | | 2515592 | Fluorene | 85 | 58 | 116 |
| | 301907 | | 2515603 | Fluorene | 85 | 58 | 116 |
| | 301907 | | 2515592 | Indeno(1,2,3-cd)pyrene | 89 | 52 | 115 |
| | 301907 | | 2515603 | Indeno(1,2,3-cd)pyrene | 89 | 52 | 115 |
| | 301907 | | 2515592 | Naphthalene | 88 | 72 | 115 |
| | 301907 | | 2515603 | Naphthalene | 88 | 72 | 115 |
| | 301907 | | 2515603 | Phenanthrene | 88 | 56 | 115 |
| | 301907 | | 2515592 | Phenanthrene | 88 | 56 | 115 |
| | 301907 | | 2515603 | Pyrene | 90 | 72 | 115 |
| | 301907 | | 2515592 | Pyrene | 90 | 72 | 115 |
| | 301908 | | 2515603 | 1-Methylnaphthalene | 96 | 68 | 114 |
| | 301908 | | 2515592 | 1-Methylnaphthalene | 96 | 68 | 114 |
| | 301908 | | 2515603 | 2-Methylnaphthalene | 86 | 62 | 108 |
| | 301908 | | 2515592 | 2-Methylnaphthalene | 86 | 62 | 108 |
| | 301908 | | 2515592 | Acenaphthene | 90 | 63 | 115 |
| | 301908 | | 2515603 | Acenaphthene | 90 | 63 | 115 |
| | 301908 | | 2515603 | Acenaphthylene | 88 | 46 | 115 |
| | 301908 | | 2515592 | Acenaphthylene | 88 | 46 | 115 |
| | 301908 | | 2515603 | Anthracene | 92 | 59 | 115 |
| | 301908 | | 2515592 | Anthracene | 92 | 59 | 115 |
| | 301908 | | 2515592 | Benz(a)anthracene | 87 | 73 | 115 |
| | 301908 | | 2515603 | Benz(a)anthracene | 87 | 73 | 115 |
| | 301908 | | 2515603 | Benzo(a)pyrene | 95 | 68 | 115 |
| | 301908 | | 2515592 | Benzo(a)pyrene | 95 | 68 | 115 |
| | 301908 | | 2515603 | Benzo(b)fluoranthene | 89 | 74 | 115 |
| | 301908 | | 2515592 | Benzo(b)fluoranthene | 89 | 74 | 115 |
| | 301908 | | 2515592 | Benzo(g,h,i)perylene | 94 | 68 | 115 |
| | 301908 | | 2515603 | Benzo(g,h,i)perylene | 94 | 68 | 115 |
| | 301908 | | 2515592 | Benzo(k)fluoranthene | 90 | 83 | 115 |
| | 301908 | | 2515603 | Benzo(k)fluoranthene | 90 | 83 | 115 |
| | 301908 | | 2515603 | Chrysene | 88 | 68 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 301908 | WATER | 2515592 | Chrysene | 88 | 68 | 115 |
| | 301908 | | 2515603 | Dibenz(a,h)anthracene | 90 | 77 | 115 |
| | 301908 | | 2515592 | Dibenz(a,h)anthracene | 90 | 77 | 115 |
| | 301908 | | 2515603 | Fluoranthene | 90 | 67 | 115 |
| | 301908 | | 2515592 | Fluoranthene | 90 | 67 | 115 |
| | 301908 | | 2515603 | Fluorene | 86 | 58 | 116 |
| | 301908 | | 2515592 | Fluorene | 86 | 58 | 116 |
| | 301908 | | 2515592 | Indeno(1,2,3-cd)pyrene | 96 | 52 | 115 |
| | 301908 | | 2515603 | Indeno(1,2,3-cd)pyrene | 96 | 52 | 115 |
| | 301908 | | 2515603 | Naphthalene | 90 | 72 | 115 |
| | 301908 | | 2515592 | Naphthalene | 90 | 72 | 115 |
| | 301908 | | 2515592 | Phenanthrene | 89 | 56 | 115 |
| | 301908 | | 2515603 | Phenanthrene | 89 | 56 | 115 |
| | 301908 | | 2515603 | Pyrene | 92 | 72 | 115 |
| | 301908 | | 2515592 | Pyrene | 92 | 72 | 115 |
| | 302034 | | 2515638 | 1-Methylnaphthalene | 97 | 68 | 114 |
| | 302034 | | 2515619 | 1-Methylnaphthalene | 97 | 68 | 114 |
| | 302034 | | 2515638 | 2-Methylnaphthalene | 87 | 62 | 108 |
| | 302034 | | 2515619 | 2-Methylnaphthalene | 87 | 62 | 108 |
| | 302034 | | 2515619 | Acenaphthene | 91 | 63 | 115 |
| | 302034 | | 2515638 | Acenaphthene | 91 | 63 | 115 |
| | 302034 | | 2515638 | Acenaphthylene | 90 | 46 | 115 |
| | 302034 | | 2515619 | Acenaphthylene | 90 | 46 | 115 |
| | 302034 | | 2515638 | Anthracene | 92 | 59 | 115 |
| | 302034 | | 2515619 | Anthracene | 92 | 59 | 115 |
| | 302034 | | 2515619 | Benz(a)anthracene | 88 | 73 | 115 |
| | 302034 | | 2515638 | Benz(a)anthracene | 88 | 73 | 115 |
| | 302034 | | 2515638 | Benzo(a)pyrene | 94 | 68 | 115 |
| | 302034 | | 2515619 | Benzo(a)pyrene | 94 | 68 | 115 |
| | 302034 | | 2515619 | Benzo(b)fluoranthene | 90 | 74 | 115 |
| | 302034 | | 2515638 | Benzo(b)fluoranthene | 90 | 74 | 115 |
| | 302034 | | 2515638 | Benzo(g,h,i)perylene | 91 | 68 | 115 |
| | 302034 | | 2515619 | Benzo(g,h,i)perylene | 91 | 68 | 115 |
| | 302034 | | 2515638 | Benzo(k)fluoranthene | 91 | 83 | 115 |
| | 302034 | | 2515619 | Benzo(k)fluoranthene | 91 | 83 | 115 |
| | 302034 | | 2515619 | Chrysene | 89 | 68 | 115 |
| | 302034 | | 2515638 | Chrysene | 89 | 68 | 115 |
| | 302034 | | 2515638 | Dibenz(a,h)anthracene | 89 | 77 | 115 |
| | 302034 | | 2515619 | Dibenz(a,h)anthracene | 89 | 77 | 115 |
| | 302034 | | 2515619 | Fluoranthene | 92 | 67 | 115 |
| | 302034 | | 2515638 | Fluoranthene | 92 | 67 | 115 |
| | 302034 | | 2515638 | Fluorene | 88 | 58 | 116 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302034 | WATER | 2515619 | Fluorene | 88 | 58 | 116 |
| | 302034 | | 2515638 | Indeno(1,2,3-cd)pyrene | 94 | 52 | 115 |
| | 302034 | | 2515619 | Indeno(1,2,3-cd)pyrene | 94 | 52 | 115 |
| | 302034 | | 2515619 | Naphthalene | 92 | 72 | 115 |
| | 302034 | | 2515638 | Naphthalene | 92 | 72 | 115 |
| | 302034 | | 2515619 | Phenanthrene | 90 | 56 | 115 |
| | 302034 | | 2515638 | Phenanthrene | 90 | 56 | 115 |
| | 302034 | | 2515619 | Pyrene | 92 | 72 | 115 |
| | 302034 | | 2515638 | Pyrene | 92 | 72 | 115 |
| | 302035 | | 2515638 | 1-Methylnaphthalene | 101 | 68 | 114 |
| | 302035 | | 2515619 | 1-Methylnaphthalene | 101 | 68 | 114 |
| | 302035 | | 2515619 | 2-Methylnaphthalene | 91 | 62 | 108 |
| | 302035 | | 2515638 | 2-Methylnaphthalene | 91 | 62 | 108 |
| | 302035 | | 2515638 | Acenaphthene | 94 | 63 | 115 |
| | 302035 | | 2515619 | Acenaphthene | 94 | 63 | 115 |
| | 302035 | | 2515619 | Acenaphthylene | 93 | 46 | 115 |
| | 302035 | | 2515638 | Acenaphthylene | 93 | 46 | 115 |
| | 302035 | | 2515638 | Anthracene | 95 | 59 | 115 |
| | 302035 | | 2515619 | Anthracene | 95 | 59 | 115 |
| | 302035 | | 2515638 | Benz(a)anthracene | 92 | 73 | 115 |
| | 302035 | | 2515619 | Benz(a)anthracene | 92 | 73 | 115 |
| | 302035 | | 2515619 | Benzo(a)pyrene | 96 | 68 | 115 |
| | 302035 | | 2515638 | Benzo(a)pyrene | 96 | 68 | 115 |
| | 302035 | | 2515619 | Benzo(b)fluoranthene | 94 | 74 | 115 |
| | 302035 | | 2515638 | Benzo(b)fluoranthene | 94 | 74 | 115 |
| | 302035 | | 2515619 | Benzo(g,h,i)perylene | 93 | 68 | 115 |
| | 302035 | | 2515638 | Benzo(g,h,i)perylene | 93 | 68 | 115 |
| | 302035 | | 2515638 | Benzo(k)fluoranthene | 96 | 83 | 115 |
| | 302035 | | 2515619 | Benzo(k)fluoranthene | 96 | 83 | 115 |
| | 302035 | | 2515638 | Chrysene | 93 | 68 | 115 |
| | 302035 | | 2515619 | Chrysene | 93 | 68 | 115 |
| | 302035 | | 2515619 | Dibenz(a,h)anthracene | 94 | 77 | 115 |
| | 302035 | | 2515638 | Dibenz(a,h)anthracene | 94 | 77 | 115 |
| | 302035 | | 2515619 | Fluoranthene | 96 | 67 | 115 |
| | 302035 | | 2515638 | Fluoranthene | 96 | 67 | 115 |
| | 302035 | | 2515638 | Fluorene | 91 | 58 | 116 |
| | 302035 | | 2515619 | Fluorene | 91 | 58 | 116 |
| | 302035 | | 2515619 | Indeno(1,2,3-cd)pyrene | 97 | 52 | 115 |
| | 302035 | | 2515638 | Indeno(1,2,3-cd)pyrene | 97 | 52 | 115 |
| | 302035 | | 2515638 | Naphthalene | 95 | 72 | 115 |
| | 302035 | | 2515619 | Naphthalene | 95 | 72 | 115 |
| | 302035 | | 2515638 | Phenanthrene | 94 | 56 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302035 | WATER | 2515619 | Phenanthrene | 94 | 56 | 115 |
| | 302035 | | 2515619 | Pyrene | 96 | 72 | 115 |
| | 302035 | | 2515638 | Pyrene | 96 | 72 | 115 |
| | 302122 | | 2515679 | 1-Methylnaphthalene | 97 | 68 | 114 |
| | 302122 | | 2515679 | 2-Methylnaphthalene | 87 | 62 | 108 |
| | 302122 | | 2515679 | Acenaphthene | 91 | 63 | 115 |
| | 302122 | | 2515679 | Acenaphthylene | 88 | 46 | 115 |
| | 302122 | | 2515679 | Anthracene | 93 | 59 | 115 |
| | 302122 | | 2515679 | Benz(a)anthracene | 88 | 73 | 115 |
| | 302122 | | 2515679 | Benzo(a)pyrene | 95 | 68 | 115 |
| | 302122 | | 2515679 | Benzo(b)fluoranthene | 91 | 74 | 115 |
| | 302122 | | 2515679 | Benzo(g,h,i)perylene | 92 | 68 | 115 |
| | 302122 | | 2515679 | Benzo(k)fluoranthene | 92 | 83 | 115 |
| | 302122 | | 2515679 | Chrysene | 90 | 68 | 115 |
| | 302122 | | 2515679 | Dibenz(a,h)anthracene | 91 | 77 | 115 |
| | 302122 | | 2515679 | Fluoranthene | 91 | 67 | 115 |
| | 302122 | | 2515679 | Fluorene | 87 | 58 | 116 |
| | 302122 | | 2515679 | Indeno(1,2,3-cd)pyrene | 95 | 52 | 115 |
| | 302122 | | 2515679 | Naphthalene | 92 | 72 | 115 |
| | 302122 | | 2515679 | Phenanthrene | 90 | 56 | 115 |
| | 302122 | | 2515679 | Pyrene | 92 | 72 | 115 |
| | 302123 | | 2515679 | 1-Methylnaphthalene | 99 | 68 | 114 |
| | 302123 | | 2515679 | 2-Methylnaphthalene | 90 | 62 | 108 |
| | 302123 | | 2515679 | Acenaphthene | 93 | 63 | 115 |
| | 302123 | | 2515679 | Acenaphthylene | 92 | 46 | 115 |
| | 302123 | | 2515679 | Anthracene | 95 | 59 | 115 |
| | 302123 | | 2515679 | Benz(a)anthracene | 89 | 73 | 115 |
| | 302123 | | 2515679 | Benzo(a)pyrene | 95 | 68 | 115 |
| | 302123 | | 2515679 | Benzo(b)fluoranthene | 92 | 74 | 115 |
| | 302123 | | 2515679 | Benzo(g,h,i)perylene | 90 | 68 | 115 |
| | 302123 | | 2515679 | Benzo(k)fluoranthene | 93 | 83 | 115 |
| | 302123 | | 2515679 | Chrysene | 91 | 68 | 115 |
| | 302123 | | 2515679 | Dibenz(a,h)anthracene | 89 | 77 | 115 |
| | 302123 | | 2515679 | Fluoranthene | 94 | 67 | 115 |
| | 302123 | | 2515679 | Fluorene | 90 | 58 | 116 |
| | 302123 | | 2515679 | Indeno(1,2,3-cd)pyrene | 94 | 52 | 115 |
| | 302123 | | 2515679 | Naphthalene | 94 | 72 | 115 |
| | 302123 | | 2515679 | Phenanthrene | 93 | 56 | 115 |
| | 302123 | | 2515679 | Pyrene | 94 | 72 | 115 |
| | 302136 | | 2515690 | 1-Methylnaphthalene | 94 | 68 | 114 |
| | 302136 | | 2515691 | 1-Methylnaphthalene | 94 | 68 | 114 |
| | 302136 | | 2515691 | 2-Methylnaphthalene | 85 | 62 | 108 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302136 | WATER | 2515690 | 2-Methylnaphthalene | 85 | 62 | 108 |
| | 302136 | | 2515691 | Acenaphthene | 89 | 63 | 115 |
| | 302136 | | 2515690 | Acenaphthene | 89 | 63 | 115 |
| | 302136 | | 2515690 | Acenaphthylene | 88 | 46 | 115 |
| | 302136 | | 2515691 | Acenaphthylene | 88 | 46 | 115 |
| | 302136 | | 2515690 | Anthracene | 91 | 59 | 115 |
| | 302136 | | 2515691 | Anthracene | 91 | 59 | 115 |
| | 302136 | | 2515690 | Benz(a)anthracene | 86 | 73 | 115 |
| | 302136 | | 2515691 | Benz(a)anthracene | 86 | 73 | 115 |
| | 302136 | | 2515690 | Benzo(a)pyrene | 92 | 68 | 115 |
| | 302136 | | 2515691 | Benzo(a)pyrene | 92 | 68 | 115 |
| | 302136 | | 2515691 | Benzo(b)fluoranthene | 88 | 74 | 115 |
| | 302136 | | 2515690 | Benzo(b)fluoranthene | 88 | 74 | 115 |
| | 302136 | | 2515691 | Benzo(g,h,i)perylene | 87 | 68 | 115 |
| | 302136 | | 2515690 | Benzo(g,h,i)perylene | 87 | 68 | 115 |
| | 302136 | | 2515691 | Benzo(k)fluoranthene | 89 | 83 | 115 |
| | 302136 | | 2515690 | Benzo(k)fluoranthene | 89 | 83 | 115 |
| | 302136 | | 2515691 | Chrysene | 88 | 68 | 115 |
| | 302136 | | 2515690 | Chrysene | 88 | 68 | 115 |
| | 302136 | | 2515690 | Dibenz(a,h)anthracene | 86 | 77 | 115 |
| | 302136 | | 2515691 | Dibenz(a,h)anthracene | 86 | 77 | 115 |
| | 302136 | | 2515691 | Fluoranthene | 91 | 67 | 115 |
| | 302136 | | 2515690 | Fluoranthene | 91 | 67 | 115 |
| | 302136 | | 2515691 | Fluorene | 85 | 58 | 116 |
| | 302136 | | 2515690 | Fluorene | 85 | 58 | 116 |
| | 302136 | | 2515691 | Indeno(1,2,3-cd)pyrene | 91 | 52 | 115 |
| | 302136 | | 2515690 | Indeno(1,2,3-cd)pyrene | 91 | 52 | 115 |
| | 302136 | | 2515691 | Naphthalene | 90 | 72 | 115 |
| | 302136 | | 2515690 | Naphthalene | 90 | 72 | 115 |
| | 302136 | | 2515691 | Phenanthrene | 88 | 56 | 115 |
| | 302136 | | 2515690 | Phenanthrene | 88 | 56 | 115 |
| | 302136 | | 2515691 | Pyrene | 91 | 72 | 115 |
| | 302136 | | 2515690 | Pyrene | 91 | 72 | 115 |
| | 302242 | | 2515707 | 1-Methylnaphthalene | 94 | 68 | 114 |
| | 302242 | | 2515725 | 1-Methylnaphthalene | 94 | 68 | 114 |
| | 302242 | | 2515707 | 2-Methylnaphthalene | 84 | 62 | 108 |
| | 302242 | | 2515725 | 2-Methylnaphthalene | 84 | 62 | 108 |
| | 302242 | | 2515707 | Acenaphthene | 90 | 63 | 115 |
| | 302242 | | 2515725 | Acenaphthene | 90 | 63 | 115 |
| | 302242 | | 2515707 | Acenaphthylene | 87 | 46 | 115 |
| | 302242 | | 2515725 | Acenaphthylene | 87 | 46 | 115 |
| | 302242 | | 2515707 | Anthracene | 94 | 59 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302242 | WATER | 2515725 | Anthracene | 94 | 59 | 115 |
| | 302242 | | 2515707 | Benz(a)anthracene | 87 | 73 | 115 |
| | 302242 | | 2515725 | Benz(a)anthracene | 87 | 73 | 115 |
| | 302242 | | 2515707 | Benzo(a)pyrene | 99 | 68 | 115 |
| | 302242 | | 2515725 | Benzo(a)pyrene | 99 | 68 | 115 |
| | 302242 | | 2515707 | Benzo(b)fluoranthene | 90 | 74 | 115 |
| | 302242 | | 2515725 | Benzo(b)fluoranthene | 90 | 74 | 115 |
| | 302242 | | 2515707 | Benzo(g,h,i)perylene | 92 | 68 | 115 |
| | 302242 | | 2515725 | Benzo(g,h,i)perylene | 92 | 68 | 115 |
| | 302242 | | 2515707 | Benzo(k)fluoranthene | 90 | 83 | 115 |
| | 302242 | | 2515725 | Benzo(k)fluoranthene | 90 | 83 | 115 |
| | 302242 | | 2515707 | Chrysene | 88 | 68 | 115 |
| | 302242 | | 2515725 | Chrysene | 88 | 68 | 115 |
| | 302242 | | 2515707 | Dibenz(a,h)anthracene | 88 | 77 | 115 |
| | 302242 | | 2515725 | Dibenz(a,h)anthracene | 88 | 77 | 115 |
| | 302242 | | 2515707 | Fluoranthene | 89 | 67 | 115 |
| | 302242 | | 2515725 | Fluoranthene | 89 | 67 | 115 |
| | 302242 | | 2515707 | Fluorene | 86 | 58 | 116 |
| | 302242 | | 2515725 | Fluorene | 86 | 58 | 116 |
| | 302242 | | 2515707 | Indeno(1,2,3-cd)pyrene | 96 | 52 | 115 |
| | 302242 | | 2515725 | Indeno(1,2,3-cd)pyrene | 96 | 52 | 115 |
| | 302242 | | 2515707 | Naphthalene | 89 | 72 | 115 |
| | 302242 | | 2515725 | Naphthalene | 89 | 72 | 115 |
| | 302242 | | 2515707 | Phenanthrene | 89 | 56 | 115 |
| | 302242 | | 2515725 | Phenanthrene | 89 | 56 | 115 |
| | 302242 | | 2515707 | Pyrene | 92 | 72 | 115 |
| | 302242 | | 2515725 | Pyrene | 92 | 72 | 115 |
| | 302243 | | 2515707 | 1-Methylnaphthalene | 96 | 68 | 114 |
| | 302243 | | 2515725 | 1-Methylnaphthalene | 96 | 68 | 114 |
| | 302243 | | 2515707 | 2-Methylnaphthalene | 87 | 62 | 108 |
| | 302243 | | 2515725 | 2-Methylnaphthalene | 87 | 62 | 108 |
| | 302243 | | 2515707 | Acenaphthene | 92 | 63 | 115 |
| | 302243 | | 2515725 | Acenaphthene | 92 | 63 | 115 |
| | 302243 | | 2515707 | Acenaphthylene | 91 | 46 | 115 |
| | 302243 | | 2515725 | Acenaphthylene | 91 | 46 | 115 |
| | 302243 | | 2515707 | Anthracene | 97 | 59 | 115 |
| | 302243 | | 2515725 | Anthracene | 97 | 59 | 115 |
| | 302243 | | 2515707 | Benz(a)anthracene | 90 | 73 | 115 |
| | 302243 | | 2515725 | Benz(a)anthracene | 90 | 73 | 115 |
| | 302243 | | 2515707 | Benzo(a)pyrene | 100 | 68 | 115 |
| | 302243 | | 2515725 | Benzo(a)pyrene | 100 | 68 | 115 |
| | 302243 | | 2515707 | Benzo(b)fluoranthene | 91 | 74 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302243 | WATER | 2515725 | Benzo(b)fluoranthene | 91 | 74 | 115 |
| | 302243 | | 2515707 | Benzo(g,h,i)perylene | 93 | 68 | 115 |
| | 302243 | | 2515725 | Benzo(g,h,i)perylene | 93 | 68 | 115 |
| | 302243 | | 2515707 | Benzo(k)fluoranthene | 91 | 83 | 115 |
| | 302243 | | 2515725 | Benzo(k)fluoranthene | 91 | 83 | 115 |
| | 302243 | | 2515707 | Chrysene | 92 | 68 | 115 |
| | 302243 | | 2515725 | Chrysene | 92 | 68 | 115 |
| | 302243 | | 2515707 | Dibenz(a,h)anthracene | 86 | 77 | 115 |
| | 302243 | | 2515725 | Dibenz(a,h)anthracene | 86 | 77 | 115 |
| | 302243 | | 2515707 | Fluoranthene | 93 | 67 | 115 |
| | 302243 | | 2515725 | Fluoranthene | 93 | 67 | 115 |
| | 302243 | | 2515707 | Fluorene | 89 | 58 | 116 |
| | 302243 | | 2515725 | Fluorene | 89 | 58 | 116 |
| | 302243 | | 2515707 | Indeno(1,2,3-cd)pyrene | 88 | 52 | 115 |
| | 302243 | | 2515725 | Indeno(1,2,3-cd)pyrene | 88 | 52 | 115 |
| | 302243 | | 2515707 | Naphthalene | 91 | 72 | 115 |
| | 302243 | | 2515725 | Naphthalene | 91 | 72 | 115 |
| | 302243 | | 2515707 | Phenanthrene | 92 | 56 | 115 |
| | 302243 | | 2515725 | Phenanthrene | 92 | 56 | 115 |
| | 302243 | | 2515707 | Pyrene | 95 | 72 | 115 |
| | 302243 | | 2515725 | Pyrene | 95 | 72 | 115 |
| | 302273 | | 2515736 | 1-Methylnaphthalene | 91 | 68 | 114 |
| | 302273 | | 2515736 | 2-Methylnaphthalene | 81 | 62 | 108 |
| | 302273 | | 2515736 | Acenaphthene | 88 | 63 | 115 |
| | 302273 | | 2515736 | Acenaphthylene | 87 | 46 | 115 |
| | 302273 | | 2515736 | Anthracene | 92 | 59 | 115 |
| | 302273 | | 2515736 | Benz(a)anthracene | 86 | 73 | 115 |
| | 302273 | | 2515736 | Benzo(a)pyrene | 86 | 68 | 115 |
| | 302273 | | 2515736 | Benzo(b)fluoranthene | 83 | 74 | 115 |
| | 302273 | | 2515736 | Benzo(g,h,i)perylene | 72 | 68 | 115 |
| | 302273 | | 2515736 | **Benzo(k)fluoranthene** | **80** | **83** | **115** |
| | 302273 | | 2515736 | Chrysene | 89 | 68 | 115 |
| | 302273 | | 2515736 | **Dibenz(a,h)anthracene** | **64** | **77** | **115** |
| | 302273 | | 2515736 | Fluoranthene | 90 | 67 | 115 |
| | 302273 | | 2515736 | Fluorene | 86 | 58 | 116 |
| | 302273 | | 2515736 | Indeno(1,2,3-cd)pyrene | 78 | 52 | 115 |
| | 302273 | | 2515736 | Naphthalene | 86 | 72 | 115 |
| | 302273 | | 2515736 | Phenanthrene | 90 | 56 | 115 |
| | 302273 | | 2515736 | Pyrene | 92 | 72 | 115 |
| | 302274 | | 2515736 | 1-Methylnaphthalene | 101 | 68 | 114 |
| | 302274 | | 2515736 | 2-Methylnaphthalene | 90 | 62 | 108 |
| | 302274 | | 2515736 | Acenaphthene | 95 | 63 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302274 | WATER | 2515736 | Acenaphthylene | 94 | 46 | 115 |
| | 302274 | | 2515736 | Anthracene | 98 | 59 | 115 |
| | 302274 | | 2515736 | Benz(a)anthracene | 93 | 73 | 115 |
| | 302274 | | 2515736 | Benzo(a)pyrene | 102 | 68 | 115 |
| | 302274 | | 2515736 | Benzo(b)fluoranthene | 95 | 74 | 115 |
| | 302274 | | 2515736 | Benzo(g,h,i)perylene | 97 | 68 | 115 |
| | 302274 | | 2515736 | Benzo(k)fluoranthene | 96 | 83 | 115 |
| | 302274 | | 2515736 | Chrysene | 96 | 68 | 115 |
| | 302274 | | 2515736 | Dibenz(a,h)anthracene | 96 | 77 | 115 |
| | 302274 | | 2515736 | Fluoranthene | 96 | 67 | 115 |
| | 302274 | | 2515736 | Fluorene | 92 | 58 | 116 |
| | 302274 | | 2515736 | Indeno(1,2,3-cd)pyrene | 102 | 52 | 115 |
| | 302274 | | 2515736 | Naphthalene | 95 | 72 | 115 |
| | 302274 | | 2515736 | Phenanthrene | 95 | 56 | 115 |
| | 302274 | | 2515736 | Pyrene | 98 | 72 | 115 |
| | 302389 | | 2515752 | 1-Methylnaphthalene | 83 | 68 | 114 |
| | 302389 | | 2515752 | 2-Methylnaphthalene | 74 | 62 | 108 |
| | 302389 | | 2515752 | Acenaphthene | 80 | 63 | 115 |
| | 302389 | | 2515752 | Acenaphthylene | 78 | 46 | 115 |
| | 302389 | | 2515752 | Anthracene | 83 | 59 | 115 |
| | 302389 | | 2515752 | Benz(a)anthracene | 77 | 73 | 115 |
| | 302389 | | 2515752 | Benzo(a)pyrene | 83 | 68 | 115 |
| | 302389 | | 2515752 | Benzo(b)fluoranthene | 79 | 74 | 115 |
| | 302389 | | 2515752 | Benzo(g,h,i)perylene | 80 | 68 | 115 |
| | 302389 | | 2515752 | **Benzo(k)fluoranthene** | **79** | **83** | **115** |
| | 302389 | | 2515752 | Chrysene | 80 | 68 | 115 |
| | 302389 | | 2515752 | Dibenz(a,h)anthracene | 78 | 77 | 115 |
| | 302389 | | 2515752 | Fluoranthene | 80 | 67 | 115 |
| | 302389 | | 2515752 | Fluorene | 76 | 58 | 116 |
| | 302389 | | 2515752 | Indeno(1,2,3-cd)pyrene | 84 | 52 | 115 |
| | 302389 | | 2515752 | Naphthalene | 78 | 72 | 115 |
| | 302389 | | 2515752 | Phenanthrene | 79 | 56 | 115 |
| | 302389 | | 2515752 | Pyrene | 81 | 72 | 115 |
| | 302390 | | 2515752 | 1-Methylnaphthalene | 101 | 68 | 114 |
| | 302390 | | 2515752 | 2-Methylnaphthalene | 90 | 62 | 108 |
| | 302390 | | 2515752 | Acenaphthene | 96 | 63 | 115 |
| | 302390 | | 2515752 | Acenaphthylene | 95 | 46 | 115 |
| | 302390 | | 2515752 | Anthracene | 100 | 59 | 115 |
| | 302390 | | 2515752 | Benz(a)anthracene | 94 | 73 | 115 |
| | 302390 | | 2515752 | Benzo(a)pyrene | 99 | 68 | 115 |
| | 302390 | | 2515752 | Benzo(b)fluoranthene | 93 | 74 | 115 |
| | 302390 | | 2515752 | Benzo(g,h,i)perylene | 84 | 68 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302390 | WATER | 2515752 | Benzo(k)fluoranthene | 92 | 83 | 115 |
| | 302390 | | 2515752 | Chrysene | 94 | 68 | 115 |
| | 302390 | | 2515752 | Dibenz(a,h)anthracene | 78 | 77 | 115 |
| | 302390 | | 2515752 | Fluoranthene | 97 | 67 | 115 |
| | 302390 | | 2515752 | Fluorene | 93 | 58 | 116 |
| | 302390 | | 2515752 | Indeno(1,2,3-cd)pyrene | 80 | 52 | 115 |
| | 302390 | | 2515752 | Naphthalene | 95 | 72 | 115 |
| | 302390 | | 2515752 | Phenanthrene | 96 | 56 | 115 |
| | 302390 | | 2515752 | Pyrene | 99 | 72 | 115 |
| | 302481 | | 2515808 | 1-Methylnaphthalene | 98 | 68 | 114 |
| | 302481 | | 2515786 | 1-Methylnaphthalene | 98 | 68 | 114 |
| | 302481 | | 2515786 | 2-Methylnaphthalene | 88 | 62 | 108 |
| | 302481 | | 2515808 | 2-Methylnaphthalene | 88 | 62 | 108 |
| | 302481 | | 2515786 | Acenaphthene | 93 | 63 | 115 |
| | 302481 | | 2515808 | Acenaphthene | 93 | 63 | 115 |
| | 302481 | | 2515808 | Acenaphthylene | 93 | 46 | 115 |
| | 302481 | | 2515786 | Acenaphthylene | 93 | 46 | 115 |
| | 302481 | | 2515808 | Anthracene | 99 | 59 | 115 |
| | 302481 | | 2515786 | Anthracene | 99 | 59 | 115 |
| | 302481 | | 2515786 | Benz(a)anthracene | 93 | 73 | 115 |
| | 302481 | | 2515808 | Benz(a)anthracene | 93 | 73 | 115 |
| | 302481 | | 2515808 | Benzo(a)pyrene | 103 | 68 | 115 |
| | 302481 | | 2515786 | Benzo(a)pyrene | 103 | 68 | 115 |
| | 302481 | | 2515786 | Benzo(b)fluoranthene | 94 | 74 | 115 |
| | 302481 | | 2515808 | Benzo(b)fluoranthene | 94 | 74 | 115 |
| | 302481 | | 2515808 | Benzo(g,h,i)perylene | 99 | 68 | 115 |
| | 302481 | | 2515786 | Benzo(g,h,i)perylene | 99 | 68 | 115 |
| | 302481 | | 2515808 | Benzo(k)fluoranthene | 96 | 83 | 115 |
| | 302481 | | 2515786 | Benzo(k)fluoranthene | 96 | 83 | 115 |
| | 302481 | | 2515808 | Chrysene | 95 | 68 | 115 |
| | 302481 | | 2515786 | Chrysene | 95 | 68 | 115 |
| | 302481 | | 2515808 | Dibenz(a,h)anthracene | 95 | 77 | 115 |
| | 302481 | | 2515786 | Dibenz(a,h)anthracene | 95 | 77 | 115 |
| | 302481 | | 2515786 | Fluoranthene | 95 | 67 | 115 |
| | 302481 | | 2515808 | Fluoranthene | 95 | 67 | 115 |
| | 302481 | | 2515786 | Fluorene | 91 | 58 | 116 |
| | 302481 | | 2515808 | Fluorene | 91 | 58 | 116 |
| | 302481 | | 2515786 | Indeno(1,2,3-cd)pyrene | 101 | 52 | 115 |
| | 302481 | | 2515808 | Indeno(1,2,3-cd)pyrene | 101 | 52 | 115 |
| | 302481 | | 2515786 | Naphthalene | 92 | 72 | 115 |
| | 302481 | | 2515808 | Naphthalene | 92 | 72 | 115 |
| | 302481 | | 2515786 | Phenanthrene | 94 | 56 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 302481 | WATER | 2515808 | Phenanthrene | 94 | 56 | 115 |
| | 302481 | | 2515808 | Pyrene | 97 | 72 | 115 |
| | 302481 | | 2515786 | Pyrene | 97 | 72 | 115 |
| | 303969 | | 2516238 | 1-Methylnaphthalene | 83 | 68 | 114 |
| | 303969 | | 2516238 | 2-Methylnaphthalene | 74 | 62 | 108 |
| | 303969 | | 2516238 | Acenaphthene | 76 | 63 | 115 |
| | 303969 | | 2516238 | Acenaphthylene | 77 | 46 | 115 |
| | 303969 | | 2516238 | Anthracene | 84 | 59 | 115 |
| | 303969 | | 2516238 | Benz(a)anthracene | 79 | 73 | 115 |
| | 303969 | | 2516238 | Benzo(a)pyrene | 82 | 68 | 115 |
| | 303969 | | 2516238 | Benzo(b)fluoranthene | 78 | 74 | 115 |
| | 303969 | | 2516238 | Benzo(g,h,i)perylene | 72 | 68 | 115 |
| | 303969 | | 2516238 | **Benzo(k)fluoranthene** | **75** | **83** | **115** |
| | 303969 | | 2516238 | Chrysene | 78 | 68 | 115 |
| | 303969 | | 2516238 | **Dibenz(a,h)anthracene** | **64** | **77** | **115** |
| | 303969 | | 2516238 | Fluoranthene | 82 | 67 | 115 |
| | 303969 | | 2516238 | Fluorene | 76 | 58 | 116 |
| | 303969 | | 2516238 | Indeno(1,2,3-cd)pyrene | 71 | 52 | 115 |
| | 303969 | | 2516238 | Naphthalene | 82 | 72 | 115 |
| | 303969 | | 2516238 | Phenanthrene | 82 | 56 | 115 |
| | 303969 | | 2516238 | Pyrene | 81 | 72 | 115 |
| | 303970 | | 2516238 | 1-Methylnaphthalene | 86 | 68 | 114 |
| | 303970 | | 2516238 | 2-Methylnaphthalene | 74 | 62 | 108 |
| | 303970 | | 2516238 | Acenaphthene | 78 | 63 | 115 |
| | 303970 | | 2516238 | Acenaphthylene | 76 | 46 | 115 |
| | 303970 | | 2516238 | Anthracene | 88 | 59 | 115 |
| | 303970 | | 2516238 | Benz(a)anthracene | 77 | 73 | 115 |
| | 303970 | | 2516238 | Benzo(a)pyrene | 87 | 68 | 115 |
| | 303970 | | 2516238 | Benzo(b)fluoranthene | 74 | 74 | 115 |
| | 303970 | | 2516238 | **Benzo(g,h,i)perylene** | **62** | **68** | **115** |
| | 303970 | | 2516238 | **Benzo(k)fluoranthene** | **75** | **83** | **115** |
| | 303970 | | 2516238 | Chrysene | 80 | 68 | 115 |
| | 303970 | | 2516238 | **Dibenz(a,h)anthracene** | **56** | **77** | **115** |
| | 303970 | | 2516238 | Fluoranthene | 82 | 67 | 115 |
| | 303970 | | 2516238 | Fluorene | 79 | 58 | 116 |
| | 303970 | | 2516238 | Indeno(1,2,3-cd)pyrene | 66 | 52 | 115 |
| | 303970 | | 2516238 | Naphthalene | 81 | 72 | 115 |
| | 303970 | | 2516238 | Phenanthrene | 81 | 56 | 115 |
| | 303970 | | 2516238 | Pyrene | 83 | 72 | 115 |
| | 304094 | | 2516259 | 1-Methylnaphthalene | 81 | 68 | 114 |
| | 304094 | | 2516259 | 2-Methylnaphthalene | 71 | 62 | 108 |
| | 304094 | | 2516259 | Acenaphthene | 72 | 63 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 304094 | WATER | 2516259 | Acenaphthylene | 73 | 46 | 115 |
| | 304094 | | 2516259 | Anthracene | 82 | 59 | 115 |
| | 304094 | | 2516259 | **Benz(a)anthracene** | **72** | **73** | **115** |
| | 304094 | | 2516259 | Benzo(a)pyrene | 78 | 68 | 115 |
| | 304094 | | 2516259 | Benzo(b)fluoranthene | 75 | 74 | 115 |
| | 304094 | | 2516259 | Benzo(g,h,i)perylene | 79 | 68 | 115 |
| | 304094 | | 2516259 | **Benzo(k)fluoranthene** | **74** | **83** | **115** |
| | 304094 | | 2516259 | Chrysene | 74 | 68 | 115 |
| | 304094 | | 2516259 | **Dibenz(a,h)anthracene** | **74** | **77** | **115** |
| | 304094 | | 2516259 | Fluoranthene | 77 | 67 | 115 |
| | 304094 | | 2516259 | Fluorene | 72 | 58 | 116 |
| | 304094 | | 2516259 | Indeno(1,2,3-cd)pyrene | 80 | 52 | 115 |
| | 304094 | | 2516259 | Naphthalene | 75 | 72 | 115 |
| | 304094 | | 2516259 | Phenanthrene | 74 | 56 | 115 |
| | 304094 | | 2516259 | Pyrene | 77 | 72 | 115 |
| | 304095 | | 2516259 | 1-Methylnaphthalene | 76 | 68 | 114 |
| | 304095 | | 2516259 | 2-Methylnaphthalene | 67 | 62 | 108 |
| | 304095 | | 2516259 | Acenaphthene | 68 | 63 | 115 |
| | 304095 | | 2516259 | Acenaphthylene | 68 | 46 | 115 |
| | 304095 | | 2516259 | Anthracene | 81 | 59 | 115 |
| | 304095 | | 2516259 | Benz(a)anthracene | 74 | 73 | 115 |
| | 304095 | | 2516259 | Benzo(a)pyrene | 79 | 68 | 115 |
| | 304095 | | 2516259 | **Benzo(b)fluoranthene** | **73** | **74** | **115** |
| | 304095 | | 2516259 | Benzo(g,h,i)perylene | 83 | 68 | 115 |
| | 304095 | | 2516259 | Benzo(k)fluoranthene | 87 | 83 | 115 |
| | 304095 | | 2516259 | Chrysene | 76 | 68 | 115 |
| | 304095 | | 2516259 | Dibenz(a,h)anthracene | 87 | 77 | 115 |
| | 304095 | | 2516259 | Fluoranthene | 77 | 67 | 115 |
| | 304095 | | 2516259 | Fluorene | 69 | 58 | 116 |
| | 304095 | | 2516259 | Indeno(1,2,3-cd)pyrene | 81 | 52 | 115 |
| | 304095 | | 2516259 | **Naphthalene** | **66** | **72** | **115** |
| | 304095 | | 2516259 | Phenanthrene | 72 | 56 | 115 |
| | 304095 | | 2516259 | Pyrene | 77 | 72 | 115 |
| | 304137 | | 2516299 | 1-Methylnaphthalene | 77 | 68 | 114 |
| | 304137 | | 2516299 | 2-Methylnaphthalene | 70 | 62 | 108 |
| | 304137 | | 2516299 | Acenaphthene | 70 | 63 | 115 |
| | 304137 | | 2516299 | Acenaphthylene | 70 | 46 | 115 |
| | 304137 | | 2516299 | Anthracene | 78 | 59 | 115 |
| | 304137 | | 2516299 | **Benz(a)anthracene** | **72** | **73** | **115** |
| | 304137 | | 2516299 | Benzo(a)pyrene | 81 | 68 | 115 |
| | 304137 | | 2516299 | **Benzo(b)fluoranthene** | **73** | **74** | **115** |
| | 304137 | | 2516299 | Benzo(g,h,i)perylene | 78 | 68 | 115 |

## Table B-7. Summary of Laboratory Control Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | |
| | 304137 | WATER | 2516299 | **Benzo(k)fluoranthene** | **73** | **83** | **115** |
| | 304137 | | 2516299 | Chrysene | 72 | 68 | 115 |
| | 304137 | | 2516299 | **Dibenz(a,h)anthracene** | **73** | **77** | **115** |
| | 304137 | | 2516299 | Fluoranthene | 76 | 67 | 115 |
| | 304137 | | 2516299 | Fluorene | 72 | 58 | 116 |
| | 304137 | | 2516299 | Indeno(1,2,3-cd)pyrene | 80 | 52 | 115 |
| | 304137 | | 2516299 | **Naphthalene** | **69** | **72** | **115** |
| | 304137 | | 2516299 | Phenanthrene | 72 | 56 | 115 |
| | 304137 | | 2516299 | Pyrene | 77 | 72 | 115 |

Bold formatting indicates recoveries below the lower control limit or above the upper control limit.

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **E300** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | Chloride | 1 | 87.5 | 75 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | DCA | 1 | 96 | 90 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Nitrate | 1 | 91 | 90 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Sulfate | 1 | 95 | 75 | 125 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Chloride | 1 | 87.5 | 75 | 125 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | DCA | 1 | 96 | 90 | 115 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Nitrate | 1 | 91 | 90 | 110 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Sulfate | 1 | 95 | 75 | 125 |
| **E310.1** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | Alkalinity, Bicarbonate | 1 | 104 | 75 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Alkalinity, Total | 1 | 104 | 75 | 125 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Alkalinity, Bicarbonate | 1 | 112 | 75 | 125 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Alkalinity, Total | 1 | 112 | 75 | 125 |
| **SW6010B** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | Calcium | 1 | 101.8 | 90 | 111 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Iron | 1 | 101.4 | 75 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Lead | 1 | 100.9 | 89 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Magnesium | 1 | 105 | 90 | 113 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Manganese | 1 | 96 | 75 | 125 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **Potassium** | 1 | **114.8** | **89** | **114** |
| | ST106-GW-10624-27042010MS | WATER | | MS | Sodium | 1 | 111.8 | 90 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Calcium | 1 | 99.8 | 90 | 111 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Iron | 1 | 100.8 | 75 | 125 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Lead | 1 | 100.3 | 89 | 110 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Magnesium | 1 | 104 | 90 | 113 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Manganese | 1 | 96 | 75 | 125 |
| | **ST106-GW-10624-27042010MSD** | WATER | | **SD** | **Potassium** | 1 | **115** | **89** | **114** |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Sodium | 1 | 107.4 | 90 | 117 |
| **SW8011** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | 1,1,2,2-Tetrachloroethane | 1 | 117 | 70 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dibromoethane | 1 | 100 | 60 | 140 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,2,2-Tetrachloroethane | 1 | 75 | 70 | 130 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2-Dibromoethane | 1 | 75 | 60 | 140 |
| **SW8015-E** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | o-Terphenyl | 1 | 100 | 59 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | TPH C10-C28 | 1 | 84 | 50 | 104 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Triacontane | 1 | 95 | 40 | 140 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | o-Terphenyl | 1 | 100 | 59 | 105 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | TPH C10-C28 | 1 | 84 | 50 | 104 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Triacontane | 1 | 95.2 | 40 | 140 |
| **SW8015-P** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | Chlorobenzene | 1 | 85 | 74 | 138 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8015-P** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | TPH C6-C10 | 1 | 92 | 79 | 149 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | Chlorobenzene | 1 | 85 | 74 | 138 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | TPH C6-C10 | 1 | 84 | 79 | 149 |
| **SW8260B** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | 1,1,1,2-Tetrachloroethane | 5 | 106 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,1,2-Tetrachloroethane | 1 | 104 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,1-Trichloroethane | 1 | 108 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,1-Trichloroethane | 5 | 109 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,2,2-Tetrachloroethane | 1 | 97.5 | 73 | 119 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,2,2-Tetrachloroethane | 5 | 97.2 | 73 | 119 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,2-Trichloroethane | 5 | 107 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1,2-Trichloroethane | 1 | 105 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloroethane | 5 | 103 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloroethane | 1 | 105 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloroethene | 1 | 110 | 66 | 133 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloroethene | 5 | 106 | 66 | 133 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloropropene | 5 | 111 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,1-Dichloropropene | 1 | 111 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,3-Trichlorobenzene | 5 | 109 | 66 | 123 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,3-Trichlorobenzene | 1 | 110 | 66 | 123 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,3-Trichloropropane | 5 | 98.3 | 84 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,3-Trichloropropane | 1 | 99 | 84 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,4-Trichlorobenzene | 5 | 109 | 73 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,4-Trichlorobenzene | 1 | 108 | 73 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,4-Trimethylbenzene | 5 | 108 | 77 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2,4-Trimethylbenzene | 1 | 108 | 77 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dibromo-3-chloropropane | 1 | 99.5 | 65 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dibromo-3-chloropropane | 5 | 96 | 65 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dibromoethane | 1 | 102 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dibromoethane | 5 | 104 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichlorobenzene | 5 | 105 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichlorobenzene | 1 | 104 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloroethane | 1 | 104 | 74 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloroethane | 5 | 102 | 74 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloroethane-d4 | 1 | 108 | 70 | 127 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloroethane-d4 | 5 | 94 | 70 | 127 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloropropane | 1 | 102 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,2-Dichloropropane | 5 | 105 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,3,5-Trimethylbenzene | 1 | 110 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,3,5-Trimethylbenzene | 5 | 107 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,3-Dichlorobenzene | 5 | 104 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,3-Dichlorobenzene | 1 | 104 | 75 | 115 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | 1,3-Dichloropropane | 1 | 102 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,3-Dichloropropane | 5 | 101 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,4-Dichlorobenzene | 5 | 103 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 1,4-Dichlorobenzene | 1 | 102 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,2-Dichloropropane | 1 | 85 | 72 | 128 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,2-Dichloropropane | 5 | 107 | 72 | 128 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Butanone | 1 | 106 | 57 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Butanone | 5 | 106 | 57 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Chlorotoluene | 1 | 106 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Chlorotoluene | 5 | 103 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Hexanone | 5 | 108 | 57 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Hexanone | 1 | 117 | 57 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Bromofluorobenzene | 1 | 105 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Bromofluorobenzene | 5 | 90.4 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Bromofluorobenzene | 5 | 90.4 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Bromofluorobenzene | 1 | 105 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Chlorotoluene | 1 | 106 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Chlorotoluene | 5 | 104 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Methyl-2-Pentanone | 1 | 99.8 | 65 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Methyl-2-Pentanone | 5 | 102 | 65 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Acetone | 1 | 99.8 | 48 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Acetone | 5 | 92.2 | 48 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzene | 1 | 102 | 77 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzene | 5 | 102 | 77 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromobenzene | 1 | 104 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromobenzene | 5 | 104 | 75 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromochloromethane | 1 | 103 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromochloromethane | 5 | 99.2 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromodichloromethane | 1 | 102 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromodichloromethane | 5 | 106 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromoform | 1 | 97.5 | 74 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromoform | 5 | 102 | 74 | 121 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromomethane | 5 | 97.7 | 42 | 154 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bromomethane | 1 | 118 | 42 | 154 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Carbon Disulfide | 5 | 100 | 56 | 104 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **Carbon Disulfide** | 1 | **110** | **56** | **104** |
| | ST106-GW-10624-27042010MS | WATER | | MS | Carbon tetrachloride | 5 | 109 | 80 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Carbon tetrachloride | 1 | 110 | 80 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Chlorobenzene | 5 | 104 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Chlorobenzene | 1 | 103 | 78 | 118 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Chloroethane | 5 | 98.9 | 51 | 133 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Chloroethane | 1 | 101 | 51 | 133 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| ST106-GW-10624-27042010MS | | WATER | 2515690 | MS | Chloroform | 1 | 102 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Chloroform | 5 | 102 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Chloromethane | 5 | 80.7 | 46 | 142 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Chloromethane | 1 | 97 | 46 | 142 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Cis-1,2-DCE | 1 | 106 | 75 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Cis-1,2-DCE | 5 | 106 | 75 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | cis-1,3-Dichloropropene | 1 | 100 | 76 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | cis-1,3-Dichloropropene | 5 | 105 | 76 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromochloromethane | 5 | 105 | 76 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromochloromethane | 1 | 102 | 76 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromofluoromethane | 5 | 96.8 | 77 | 119 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromofluoromethane | 1 | 111 | 77 | 119 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromomethane | 5 | 104 | 77 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dibromomethane | 1 | 105 | 77 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dichlorodifluoromethane | 5 | 85.4 | 56 | 140 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Dichlorodifluoromethane | 1 | 98 | 56 | 140 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Ethylbenzene | 1 | 106 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Ethylbenzene | 5 | 106 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Hexachlorobutadiene | 1 | 97 | 73 | 123 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Hexachlorobutadiene | 5 | 104 | 73 | 123 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Isopropylbenzene | 5 | 105 | 71 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Isopropylbenzene | 1 | 110 | 71 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | m,p-Xylene | 5 | 104 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | m,p-Xylene | 1 | 104 | 78 | 118 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Methyl tert-Butyl Ether | 5 | 101 | 58 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Methyl tert-Butyl Ether | 1 | 99.5 | 58 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Methylene chloride | 1 | 106 | 71 | 119 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Methylene chloride | 5 | 96 | 71 | 119 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Naphthalene | 5 | 107 | 62 | 121 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Naphthalene | 1 | 107 | 62 | 121 |
| ST106-GW-10624-27042010MS | | WATER | | MS | n-Butylbenzene | 1 | 113 | 76 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | n-Butylbenzene | 5 | 115 | 76 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | n-Propylbenzene | 5 | 108 | 76 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | n-Propylbenzene | 1 | 110 | 76 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | o-Xylene | 5 | 105 | 77 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | o-Xylene | 1 | 106 | 77 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | p-Isopropyltoluene | 5 | 111 | 76 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | p-Isopropyltoluene | 1 | 110 | 76 | 113 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Sec-Butylbenzene | 5 | 113 | 80 | 120 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Sec-Butylbenzene | 1 | 112 | 80 | 120 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Styrene | 5 | 107 | 77 | 117 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Styrene | 1 | 106 | 77 | 117 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | tert-Butylbenzene | 5 | 110 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | tert-Butylbenzene | 1 | 110 | 76 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Tetrachloroethene | 1 | 106 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Tetrachloroethene | 5 | 108 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Toluene | 5 | 105 | 73 | 120 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **Toluene** | 1 | **38.5** | **73** | **120** |
| | ST106-GW-10624-27042010MS | WATER | | MS | Toluene-d8 | 5 | 97 | 83 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Toluene-d8 | 1 | 109 | 83 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | trans-1,2-Dichloroethene | 5 | 105 | 80 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | trans-1,2-Dichloroethene | 1 | 106 | 80 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | trans-1,3-Dichloropropene | 5 | 106 | 72 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | trans-1,3-Dichloropropene | 1 | 98.5 | 72 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Trichloroethene | 5 | 107 | 78 | 122 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Trichloroethene | 1 | 109 | 78 | 122 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Trichlorofluoromethane | 5 | 105 | 65 | 190 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Trichlorofluoromethane | 1 | 112 | 65 | 190 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Vinyl chloride | 5 | 94.6 | 49 | 136 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Vinyl chloride | 1 | 98 | 49 | 136 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Xylenes, Total | 1 | 105 | 77 | 117 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Xylenes, Total | 5 | 104 | 77 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,1,2-Tetrachloroethane | 5 | 100 | 77 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,1,2-Tetrachloroethane | 1 | 102 | 77 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,1-Trichloroethane | 5 | 103 | 78 | 118 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,1-Trichloroethane | 1 | 107 | 78 | 118 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,2,2-Tetrachloroethane | 5 | 95.1 | 73 | 119 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,2,2-Tetrachloroethane | 1 | 97 | 73 | 119 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,2-Trichloroethane | 5 | 103 | 76 | 116 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1,2-Trichloroethane | 1 | 104 | 76 | 116 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloroethane | 5 | 98 | 77 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloroethane | 1 | 106 | 77 | 117 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloroethene | 1 | 106 | 66 | 133 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloroethene | 5 | 98.4 | 66 | 133 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloropropene | 5 | 104 | 75 | 115 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,1-Dichloropropene | 1 | 107 | 75 | 115 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,3-Trichlorobenzene | 5 | 101 | 66 | 123 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,3-Trichlorobenzene | 1 | 110 | 66 | 123 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,3-Trichloropropane | 5 | 96.2 | 84 | 118 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,3-Trichloropropane | 1 | 98 | 84 | 118 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,4-Trichlorobenzene | 5 | 101 | 73 | 121 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,4-Trichlorobenzene | 1 | 110 | 73 | 121 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,4-Trimethylbenzene | 5 | 102 | 77 | 120 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2,4-Trimethylbenzene | 1 | 105 | 77 | 120 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| ST106-GW-10624-27042010MSD | | WATER | 2515690 | SD | 1,2-Dibromo-3-chloropropane | 1 | 102 | 65 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dibromo-3-chloropropane | 5 | 94.9 | 65 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dibromoethane | 1 | 101 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dibromoethane | 5 | 98.2 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichlorobenzene | 1 | 102 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichlorobenzene | 5 | 98.5 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloroethane | 5 | 97.1 | 74 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloroethane | 1 | 103 | 74 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloroethane-d4 | 1 | 107 | 70 | 127 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloroethane-d4 | 5 | 103 | 70 | 127 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloropropane | 5 | 97.6 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,2-Dichloropropane | 1 | 102 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3,5-Trimethylbenzene | 1 | 104 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3,5-Trimethylbenzene | 5 | 102 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3-Dichlorobenzene | 1 | 102 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3-Dichlorobenzene | 5 | 97.6 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3-Dichloropropane | 1 | 101 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,3-Dichloropropane | 5 | 98.6 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,4-Dichlorobenzene | 1 | 100 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1,4-Dichlorobenzene | 5 | 96.9 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,2-Dichloropropane | 1 | 83 | 72 | 128 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,2-Dichloropropane | 5 | 99.2 | 72 | 128 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Butanone | 1 | 110 | 57 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Butanone | 5 | 107 | 57 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Chlorotoluene | 1 | 100 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Chlorotoluene | 5 | 98.7 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Hexanone | 1 | 118 | 57 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Hexanone | 5 | 106 | 57 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Bromofluorobenzene | 1 | 103 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Bromofluorobenzene | 1 | 103 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Bromofluorobenzene | 5 | 98.6 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Bromofluorobenzene | 5 | 98.6 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Chlorotoluene | 1 | 104 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Chlorotoluene | 5 | 100 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Methyl-2-Pentanone | 1 | 103 | 65 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Methyl-2-Pentanone | 5 | 101 | 65 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acetone | 1 | 99.8 | 48 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acetone | 5 | 97.2 | 48 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzene | 5 | 95.4 | 77 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzene | 1 | 99.5 | 77 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromobenzene | 1 | 101 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromobenzene | 5 | 98.3 | 75 | 115 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| ST106-GW-10624-27042010MSD | | WATER | 2515690 | SD | Bromochloromethane | 1 | 103 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromochloromethane | 5 | 97.2 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromodichloromethane | 5 | 101 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromodichloromethane | 1 | 104 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromoform | 5 | 95.3 | 74 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromoform | 1 | 96 | 74 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromomethane | 5 | 95.1 | 42 | 154 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bromomethane | 1 | 122 | 42 | 154 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Carbon Disulfide | 5 | 92.8 | 56 | 104 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Carbon Disulfide | 1 | 102 | 56 | 104 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Carbon tetrachloride | 5 | 102 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Carbon tetrachloride | 1 | 109 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chlorobenzene | 1 | 102 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chlorobenzene | 5 | 97.9 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloroethane | 5 | 94.2 | 51 | 133 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloroethane | 1 | 101 | 51 | 133 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloroform | 5 | 95.5 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloroform | 1 | 100 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloromethane | 1 | 95 | 46 | 142 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chloromethane | 5 | 76.8 | 46 | 142 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Cis-1,2-DCE | 5 | 98.9 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Cis-1,2-DCE | 1 | 104 | 75 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | cis-1,3-Dichloropropene | 1 | 99 | 76 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | cis-1,3-Dichloropropene | 5 | 101 | 76 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromochloromethane | 1 | 100 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromochloromethane | 5 | 99.6 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromofluoromethane | 5 | 104 | 77 | 119 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromofluoromethane | 1 | 110 | 77 | 119 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromomethane | 5 | 98.8 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibromomethane | 1 | 104 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dichlorodifluoromethane | 5 | 80.9 | 56 | 140 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dichlorodifluoromethane | 1 | 95 | 56 | 140 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Ethylbenzene | 5 | 99.8 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Ethylbenzene | 1 | 102 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachlorobutadiene | 1 | 100 | 73 | 123 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachlorobutadiene | 5 | 96.9 | 73 | 123 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Isopropylbenzene | 5 | 100 | 71 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Isopropylbenzene | 1 | 100 | 71 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | m,p-Xylene | 1 | 101 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | m,p-Xylene | 5 | 98.5 | 78 | 118 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Methyl tert-Butyl Ether | 1 | 103 | 58 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Methyl tert-Butyl Ether | 5 | 97.6 | 58 | 116 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8260B** | | | | | | | | | |
| ST106-GW-10624-27042010MSD | | WATER | 2515690 | SD | Methylene chloride | 5 | 90.5 | 71 | 119 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Methylene chloride | 1 | 106 | 71 | 119 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Naphthalene | 1 | 108 | 62 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Naphthalene | 5 | 102 | 62 | 121 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Butylbenzene | 1 | 112 | 76 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Butylbenzene | 5 | 107 | 76 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Propylbenzene | 1 | 105 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Propylbenzene | 5 | 102 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | o-Xylene | 1 | 104 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | o-Xylene | 5 | 99.6 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | p-Isopropyltoluene | 1 | 108 | 76 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | p-Isopropyltoluene | 5 | 103 | 76 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Sec-Butylbenzene | 1 | 108 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Sec-Butylbenzene | 5 | 104 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Styrene | 1 | 103 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Styrene | 5 | 101 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | tert-Butylbenzene | 5 | 102 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | tert-Butylbenzene | 1 | 107 | 76 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Tetrachloroethene | 1 | 102 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Tetrachloroethene | 5 | 102 | 77 | 117 |
| **ST106-GW-10624-27042010MSD** | | WATER | | **SD** | **Toluene** | 1 | **26** | **73** | **120** |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Toluene | 5 | 95.2 | 73 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Toluene-d8 | 1 | 106 | 83 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Toluene-d8 | 5 | 104 | 83 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | trans-1,2-Dichloroethene | 1 | 103 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | trans-1,2-Dichloroethene | 5 | 97.2 | 80 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | trans-1,3-Dichloropropene | 1 | 99.5 | 72 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | trans-1,3-Dichloropropene | 5 | 102 | 72 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Trichloroethene | 1 | 104 | 78 | 122 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Trichloroethene | 5 | 100 | 78 | 122 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Trichlorofluoromethane | 5 | 98.7 | 65 | 190 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Trichlorofluoromethane | 1 | 107 | 65 | 190 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Vinyl chloride | 5 | 91.3 | 49 | 136 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Vinyl chloride | 1 | 97 | 49 | 136 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Xylenes, Total | 1 | 102 | 77 | 117 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Xylenes, Total | 5 | 99 | 77 | 117 |
| **SW8270C** | | | | | | | | | |
| ST106-GW-10624-27042010MS | | WATER | 2515690 | MS | 1,2-Dichlorobenzene | 1 | 76 | 40 | 100 |
| ST106-GW-10624-27042010MS | | WATER | | MS | 1,2-Diphenylhydrazine | 1 | 86.4 | 55 | 120 |
| ST106-GW-10624-27042010MS | | WATER | | MS | 1,3-Dinitrobenzene | 1 | 91.5 | 45 | 135 |
| ST106-GW-10624-27042010MS | | WATER | | MS | 2,4,5-Trichlorophenol | 1 | 80.1 | 50 | 110 |
| ST106-GW-10624-27042010MS | | WATER | | MS | 2,4,6-Tribromophenol | 1 | 85.9 | 10 | 122 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | 2,4,6-Trichlorophenol | 1 | 80.6 | 53 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,4-Dichlorophenol | 1 | 81.1 | 59 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,4-Dimethylphenol | 1 | 86.4 | 47 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,4-Dinitrophenol | 1 | 82.1 | 56 | 140 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,4-Dinitrophenol | 1 | 82.1 | 56 | 140 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,4-Dinitrotoluene | 1 | 86.2 | 69 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2,6-Dinitrotoluene | 1 | 85.4 | 69 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Chloronaphthalene | 1 | 79.1 | 35 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Chlorophenol | 1 | 79.1 | 51 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Fluorobiphenyl | 1 | 75.6 | 43 | 116 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Fluorophenol | 1 | 65 | 21 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Methylnaphthalene | 1 | 82.3 | 57 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Methylphenol | 1 | 80.1 | 47 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Nitroaniline | 1 | 86.2 | 66 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 2-Nitrophenol | 1 | 82 | 48 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 3,3'-Dichlorobenzidine | 1 | 80.7 | 55 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 3-Nitroaniline | 1 | 92.5 | 61 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4,6-Dinitro-2-methylphenol | 1 | 76.5 | 44 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4,6-Dinitro-2-methylphenol | 1 | 76.5 | 44 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Bromophenyl phenyl ether | 1 | 90.5 | 54 | 113 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Chloro-3-methylphenol | 1 | 83.5 | 55 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Chloroaniline | 1 | 91.3 | 52 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Chlorophenyl phenyl ether | 1 | 86.2 | 60 | 110 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **4-Methylphenol** | 1 | **168** | **37** | **110** |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Nitroaniline | 1 | 106 | 67 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | 4-Nitrophenol | 1 | 42.7 | 27 | 80 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Acenaphthene | 1 | 73.1 | 60 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Acenaphthene | 1 | 73.1 | 60 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Acenaphthylene | 1 | 72.6 | 58 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Anthracene | 1 | 80.3 | 63 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Anthracene | 1 | 80.3 | 63 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzidine | 1 | 0 | 0 | 98 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (a) anthracene | 1 | 73.1 | 63 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (a) anthracene | 1 | 73.1 | 63 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (a) pyrene | 1 | 74.3 | 60 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (b) fluoranthene | 1 | 74.8 | 60 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (g,h,i) perylene | 1 | 69.9 | 40 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (g,h,i) perylene | 1 | 69.9 | 40 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzo (k) fluoranthene | 1 | 67.2 | 54 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzoic acid | 1 | 29.2 | 10 | 60 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Benzoic acid | 1 | 29.2 | 10 | 60 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Bis (2-chloroethoxy) methane | 1 | 96.1 | 61 | 105 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | |
| | ST106-GW-10624-27042010MS | WATER | 2515690 | MS | Bis (2-chloroethyl) ether | 1 | 88.1 | 62 | 110 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **Bis (2-ethylhexyl) phthalate** | 1 | **161** | **63** | **125** |
| | ST106-GW-10624-27042010MS | WATER | | MS | Butyl benzylphthalate | 1 | 99.8 | 64 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Chrysene | 1 | 72.1 | 60 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Dibenzo (a,h) anthracene | 1 | 78.4 | 41 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Dibenzofuran | 1 | 83.7 | 64 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Diethyl phthalate | 1 | 90.8 | 64 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Dimethyl phthalate | 1 | 92.2 | 62 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Di-n-butylphthalate | 1 | 91.5 | 65 | 115 |
| | **ST106-GW-10624-27042010MS** | WATER | | **MS** | **Di-n-octylphthalate** | 1 | **164** | **57** | **135** |
| | ST106-GW-10624-27042010MS | WATER | | MS | Fluoranthene | 1 | 75 | 64 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Fluorene | 1 | 72.3 | 62 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Fluorene | 1 | 72.3 | 62 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Hexachlorobenzene | 1 | 81.6 | 68 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Hexachlorobutadiene | 1 | 75.5 | 42 | 105 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Hexachlorocyclopentadiene | 1 | 65 | 27 | 139 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Hexachloroethane | 1 | 86.2 | 32 | 95 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Indeno (1,2,3-c,d) pyrene | 1 | 81.6 | 45 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Indeno (1,2,3-c,d) pyrene | 1 | 81.6 | 45 | 125 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Naphthalene | 1 | 70.6 | 50 | 100 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Naphthalene | 1 | 70.6 | 50 | 100 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Nitrobenzene | 1 | 84.2 | 61 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Nitrobenzene-d5 | 1 | 78.4 | 35 | 114 |
| | ST106-GW-10624-27042010MS | WATER | | MS | n-Nitrosodi-n-propylamine | 1 | 91.3 | 57 | 120 |
| | ST106-GW-10624-27042010MS | WATER | | MS | n-Nitrosodiphenylamine | 1 | 94.9 | 71 | 110 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Pentachlorophenol | 1 | 87.4 | 41 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Phenanthrene | 1 | 73.3 | 61 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Phenanthrene | 1 | 73.3 | 61 | 115 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Phenol | 1 | 46.4 | 30 | 74 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Phenol | 1 | 46.4 | 30 | 74 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Phenol-d5 | 1 | 43.5 | 10 | 94 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Pyrene | 1 | 73.1 | 62 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Pyrene | 1 | 73.1 | 62 | 130 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Terphenyl-d14 | 1 | 77.9 | 33 | 141 |
| | ST106-GW-10624-27042010MS | WATER | | MS | Terphenyl-d14 | 1 | 77.9 | 33 | 141 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2-Dichlorobenzene | 1 | 78.5 | 40 | 100 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,2-Diphenylhydrazine | 1 | 92.7 | 55 | 120 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 1,3-Dinitrobenzene | 1 | 99.5 | 45 | 135 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 2,4,5-Trichlorophenol | 1 | 87.9 | 50 | 110 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 2,4,6-Tribromophenol | 1 | 90.5 | 10 | 122 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 2,4,6-Trichlorophenol | 1 | 88.2 | 53 | 115 |
| | ST106-GW-10624-27042010MSD | WATER | | SD | 2,4-Dichlorophenol | 1 | 86.6 | 59 | 120 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | |
| ST106-GW-10624-27042010MSD | | WATER | 2515690 | SD | 2,4-Dimethylphenol | 1 | 91.9 | 47 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,4-Dinitrophenol | 1 | 87.5 | 56 | 140 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,4-Dinitrophenol | 1 | 87.5 | 56 | 140 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,4-Dinitrotoluene | 1 | 93.2 | 69 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2,6-Dinitrotoluene | 1 | 91.9 | 69 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Chloronaphthalene | 1 | 85.8 | 35 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Chlorophenol | 1 | 85 | 51 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Fluorobiphenyl | 1 | 77.5 | 43 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Fluorophenol | 1 | 62.1 | 21 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Methylnaphthalene | 1 | 87.4 | 57 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Methylphenol | 1 | 82.9 | 47 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Nitroaniline | 1 | 89.8 | 66 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Nitrophenol | 1 | 88.7 | 48 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 3,3'-Dichlorobenzidine | 1 | 83.2 | 55 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 3-Nitroaniline | 1 | 96.3 | 61 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4,6-Dinitro-2-methylphenol | 1 | 81.6 | 44 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4,6-Dinitro-2-methylphenol | 1 | 81.6 | 44 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Bromophenyl phenyl ether | 1 | 97.1 | 54 | 113 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Chloro-3-methylphenol | 1 | 86.6 | 55 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Chloroaniline | 1 | 90.3 | 52 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Chlorophenyl phenyl ether | 1 | 92.4 | 60 | 110 |
| **ST106-GW-10624-27042010MSD** | | WATER | | **SD** | **4-Methylphenol** | 1 | **165** | **37** | **110** |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Nitroaniline | 1 | 110 | 67 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 4-Nitrophenol | 1 | 42.5 | 27 | 80 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acenaphthene | 1 | 77.2 | 60 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acenaphthene | 1 | 77.2 | 60 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acenaphthylene | 1 | 77.4 | 58 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Anthracene | 1 | 86.6 | 63 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Anthracene | 1 | 86.6 | 63 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzidine | 1 | 0 | 0 | 98 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (a) anthracene | 1 | 78 | 63 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (a) anthracene | 1 | 78 | 63 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (a) pyrene | 1 | 76.4 | 60 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (b) fluoranthene | 1 | 81.4 | 60 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (g,h,i) perylene | 1 | 73.8 | 40 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (g,h,i) perylene | 1 | 73.8 | 40 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo (k) fluoranthene | 1 | 69.6 | 54 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzoic acid | 1 | 30.3 | 10 | 60 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzoic acid | 1 | 30.3 | 10 | 60 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bis (2-chloroethoxy) methane | 1 | 103 | 61 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bis (2-chloroethyl) ether | 1 | 94.2 | 62 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Bis (2-ethylhexyl) phthalate | 1 | 125 | 63 | 125 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8270C** | | | | | | | | | |
| ST106-GW-10624-27042010MSD | | WATER | 2515690 | SD | Butyl benzylphthalate | 1 | 107 | 64 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chrysene | 1 | 76.9 | 60 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibenzo (a,h) anthracene | 1 | 80.8 | 41 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dibenzofuran | 1 | 90 | 64 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Diethyl phthalate | 1 | 96.9 | 64 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Dimethyl phthalate | 1 | 96.9 | 62 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Di-n-butylphthalate | 1 | 100 | 65 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Di-n-octylphthalate | 1 | 112 | 57 | 135 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Fluoranthene | 1 | 81.4 | 64 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Fluorene | 1 | 76.9 | 62 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Fluorene | 1 | 76.9 | 62 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachlorobenzene | 1 | 87.7 | 68 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachlorobutadiene | 1 | 80.8 | 42 | 105 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachlorocyclopentadiene | 1 | 67.5 | 27 | 139 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Hexachloroethane | 1 | 92.1 | 32 | 95 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Indeno (1,2,3-c,d) pyrene | 1 | 87.7 | 45 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Indeno (1,2,3-c,d) pyrene | 1 | 87.7 | 45 | 125 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Naphthalene | 1 | 76.9 | 50 | 100 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Naphthalene | 1 | 76.9 | 50 | 100 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Nitrobenzene | 1 | 87.7 | 61 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Nitrobenzene-d5 | 1 | 82.4 | 35 | 114 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Nitrosodi-n-propylamine | 1 | 93.4 | 57 | 120 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | n-Nitrosodiphenylamine | 1 | 105 | 71 | 110 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Pentachlorophenol | 1 | 92.7 | 41 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenanthrene | 1 | 76.9 | 61 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenanthrene | 1 | 76.9 | 61 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenol | 1 | 42.8 | 30 | 74 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenol | 1 | 42.8 | 30 | 74 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenol-d5 | 1 | 41.4 | 10 | 94 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Pyrene | 1 | 79.8 | 62 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Pyrene | 1 | 79.8 | 62 | 130 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Terphenyl-d14 | 1 | 81.9 | 33 | 141 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Terphenyl-d14 | 1 | 81.9 | 33 | 141 |
| **SW8310** | | | | | | | | | |
| ST106-GW-10624-27042010MS | | WATER | 2515690 | MS | 1-Methylnaphthalene | 1 | 92.3 | 68 | 114 |
| ST106-GW-10624-27042010MS | | WATER | | MS | 2-Methylnaphthalene | 1 | 83 | 62 | 108 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Acenaphthene | 1 | 88 | 63 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Acenaphthylene | 1 | 87 | 46 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Anthracene | 1 | 91.9 | 59 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Benz(a)anthracene | 1 | 83 | 73 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Benzo(a)pyrene | 1 | 95 | 68 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Benzo(b)fluoranthene | 1 | 82 | 74 | 115 |

## Table B-8. Summary of Matrix Spike and Matrix Spike Duplicate Samples for Groundwater Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | SDG | QA/QC Type | Analyte | Dilution | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|---|---|
| **SW8310** | | | | | | | | | |
| ST106-GW-10624-27042010MS | | WATER | 2515690 | MS | Benzo(g,h,i)perylene | 1 | 84 | 68 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Benzo(k)fluoranthene | 1 | 85 | 83 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Chrysene | 1 | 85 | 68 | 115 |
| **ST106-GW-10624-27042010MS** | | WATER | | **MS** | **Dibenz(a,h)anthracene** | 1 | **151** | **77** | **115** |
| ST106-GW-10624-27042010MS | | WATER | | MS | Fluoranthene | 1 | 85.5 | 67 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Fluorene | 1 | 86 | 58 | 116 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Indeno(1,2,3-cd)pyrene | 1 | 90.6 | 52 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Naphthalene | 1 | 89 | 72 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Phenanthrene | 1 | 87 | 56 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Pyrene | 1 | 89 | 72 | 115 |
| ST106-GW-10624-27042010MS | | WATER | | MS | Terphenyl-d14 | 1 | 82 | 70 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 1-Methylnaphthalene | 1 | 92.3 | 68 | 114 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | 2-Methylnaphthalene | 1 | 86 | 62 | 108 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acenaphthene | 1 | 90 | 63 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Acenaphthylene | 1 | 85 | 46 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Anthracene | 1 | 92.9 | 59 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benz(a)anthracene | 1 | 85 | 73 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo(a)pyrene | 1 | 102 | 68 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo(b)fluoranthene | 1 | 80 | 74 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo(g,h,i)perylene | 1 | 88 | 68 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Benzo(k)fluoranthene | 1 | 83 | 83 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Chrysene | 1 | 86 | 68 | 115 |
| **ST106-GW-10624-27042010MSD** | | WATER | | **SD** | **Dibenz(a,h)anthracene** | 1 | **153** | **77** | **115** |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Fluoranthene | 1 | 84.5 | 67 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Fluorene | 1 | 78 | 58 | 116 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Indeno(1,2,3-cd)pyrene | 1 | 89.6 | 52 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Naphthalene | 1 | 87 | 72 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Phenanthrene | 1 | 88 | 56 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Pyrene | 1 | 92 | 72 | 115 |
| ST106-GW-10624-27042010MSD | | WATER | | SD | Terphenyl-d14 | 1 | 84 | 70 | 115 |

Bold formatting indicates recoveries below the lower control limit or above the upper control limit.

**QA/QC Type**

MS = Matrix Spike
SD = Matrix Spike Duplicate

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **A2720C** | | | | | | | | |
| | ST106-AR-10610-06042010 | AIR | N | Carbon Dioxide | 0.29 J | 0.06 | 1.1 | PERCENT |
| | ST106-AR-10610-06042010 | AIR | N | Carbon Monoxide | 0.11 U | 0.11 | 1.1 | PERCENT |
| | ST106-AR-10610-06042010 | AIR | N | Methane | 0.08 U | 0.08 | 1.1 | PERCENT |
| | ST106-AR-10610-06042010 | AIR | N | Nitrogen | 84 | 0.37 | 2.2 | PERCENT |
| | ST106-AR-10610-06042010 | AIR | N | Oxygen | 22.5 | 0.1 | 1.3 | PERCENT |
| | ST106-AR-10614-06042010 | AIR | N | Carbon Dioxide | 2.73 | 0.06 | 1 | PERCENT |
| | ST106-AR-10614-06042010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1 | PERCENT |
| | ST106-AR-10614-06042010 | AIR | N | Methane | 0.07 U | 0.07 | 1 | PERCENT |
| | ST106-AR-10614-06042010 | AIR | N | Nitrogen | 84.9 | 0.35 | 2 | PERCENT |
| | ST106-AR-10614-06042010 | AIR | N | Oxygen | 15.2 | 0.09 | 1.2 | PERCENT |
| | ST106-AR-1065-06042010 | AIR | N | Carbon Dioxide | 8.12 | 0.06 | 1 | PERCENT |
| | ST106-AR-1065-06042010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1 | PERCENT |
| | ST106-AR-1065-06042010 | AIR | N | Methane | 0.08 U | 0.08 | 1 | PERCENT |
| | ST106-AR-1065-06042010 | AIR | N | Nitrogen | 88.9 | 0.36 | 2.1 | PERCENT |
| | ST106-AR-1065-06042010 | AIR | N | Oxygen | 6.11 | 0.09 | 1.3 | PERCENT |
| | ST106-AR-1065INLET-14052010 | AIR | N | Carbon Dioxide | 2.85 | 0.09 | 1.5 | PERCENT |
| | ST106-AR-1065INLET-14052010 | AIR | N | Carbon Monoxide | 0.15 U | 0.15 | 1.5 | PERCENT |
| | ST106-AR-1065INLET-14052010 | AIR | N | Methane | 0.11 U | 0.11 | 1.5 | PERCENT |
| | ST106-AR-1065INLET-14052010 | AIR | N | Nitrogen | 91.7 | 0.52 | 3 | PERCENT |
| | ST106-AR-1065INLET-14052010 | AIR | N | Oxygen | 18.6 | 0.13 | 1.8 | PERCENT |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Carbon Dioxide | 9.04 | 0.05 | 0.9 | PERCENT |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Carbon Monoxide | 0.09 U | 0.09 | 0.9 | PERCENT |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Methane | 0.07 U | 0.07 | 0.9 | PERCENT |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| A2720C | | | | | | | | |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Nitrogen | 76.7 | 0.32 | 1.8 | PERCENT |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Oxygen | 6.96 | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Carbon Dioxide | 6.2 | 0.05 | 0.9 | PERCENT |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Carbon Monoxide | 0.09 U | 0.09 | 0.9 | PERCENT |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Methane | 0.07 U | 0.07 | 0.9 | PERCENT |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Nitrogen | 81 | 0.32 | 1.8 | PERCENT |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Oxygen | 12.8 | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1066-06042010 | AIR | N | Carbon Dioxide | 3.12 | 0.07 | 1.1 | PERCENT |
| | ST106-AR-1066-06042010 | AIR | N | Carbon Monoxide | 0.11 U | 0.11 | 1.1 | PERCENT |
| | ST106-AR-1066-06042010 | AIR | N | Methane | 0.08 U | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1066-06042010 | AIR | N | Nitrogen | 95.3 | 0.39 | 2.2 | PERCENT |
| | ST106-AR-1066-06042010 | AIR | N | Oxygen | 15.5 | 0.1 | 1.3 | PERCENT |
| | ST106-AR-1068-06042010 | AIR | N | Carbon Dioxide | 1.34 | 0.06 | 0.9 | PERCENT |
| | ST106-AR-1068-06042010 | AIR | N | Carbon Monoxide | 0.09 U | 0.09 | 0.9 | PERCENT |
| | ST106-AR-1068-06042010 | AIR | N | Methane | 0.07 U | 0.07 | 0.9 | PERCENT |
| | ST106-AR-1068-06042010 | AIR | N | Nitrogen | 82.5 | 0.33 | 1.9 | PERCENT |
| | ST106-AR-1068-06042010 | AIR | N | Oxygen | 15 | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1068INLET-14052010 | AIR | N | Carbon Dioxide | 1.56 | 0.06 | 1.1 | PERCENT |
| | ST106-AR-1068INLET-14052010 | AIR | N | Carbon Monoxide | 0.11 U | 0.11 | 1.1 | PERCENT |
| | ST106-AR-1068INLET-14052010 | AIR | N | Methane | 0.08 U | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1068INLET-14052010 | AIR | N | Nitrogen | 78 | 0.38 | 2.2 | PERCENT |
| | ST106-AR-1068INLET-14052010 | AIR | N | Oxygen | 14 | 0.1 | 1.3 | PERCENT |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Carbon Dioxide | 9.62 | 0.06 | 1 | PERCENT |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| A2720C | | | | | | | | |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1 | PERCENT |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Methane | 0.07 U | 0.07 | 1 | PERCENT |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Nitrogen | 96.3 | 0.34 | 2 | PERCENT |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Oxygen | 8.93 | 0.09 | 1.2 | PERCENT |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Carbon Dioxide | 0.37 J | 0.05 | 0.9 | PERCENT |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Carbon Monoxide | 0.09 U | 0.09 | 0.9 | PERCENT |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Methane | 0.07 U | 0.07 | 0.9 | PERCENT |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Nitrogen | 81.5 | 0.32 | 1.8 | PERCENT |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Oxygen | 22.5 | 0.08 | 1.1 | PERCENT |
| | ST106-AR-1069-06042010 | AIR | N | Carbon Dioxide | 7.15 | 0.06 | 1 | PERCENT |
| | ST106-AR-1069-06042010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1 | PERCENT |
| | ST106-AR-1069-06042010 | AIR | N | Methane | 0.07 U | 0.07 | 1 | PERCENT |
| | ST106-AR-1069-06042010 | AIR | N | Nitrogen | 83.2 | 0.36 | 2.1 | PERCENT |
| | ST106-AR-1069-06042010 | AIR | N | Oxygen | 8.01 | 0.09 | 1.2 | PERCENT |
| | ST106-AR-106INLET-14052010 | AIR | N | Carbon Dioxide | 3.23 | 0.06 | 1.1 | PERCENT |
| | ST106-AR-106INLET-14052010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1.1 | PERCENT |
| | ST106-AR-106INLET-14052010 | AIR | N | Methane | 0.08 U | 0.08 | 1.1 | PERCENT |
| | ST106-AR-106INLET-14052010 | AIR | N | Nitrogen | 79.9 | 0.37 | 2.1 | PERCENT |
| | ST106-AR-106INLET-14052010 | AIR | N | Oxygen | 14.3 | 0.09 | 1.3 | PERCENT |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Carbon Dioxide | 6.99 | 0.07 | 1.2 | PERCENT |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Carbon Monoxide | 0.12 U | 0.12 | 1.2 | PERCENT |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Methane | 0.09 U | 0.09 | 1.2 | PERCENT |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Nitrogen | 89.6 | 0.43 | 2.5 | PERCENT |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **A2720C** | | | | | | | | |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Oxygen | 13.8 | 0.11 | 1.5 | PERCENT |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Carbon Dioxide | 8.64 | 0.06 | 1 | PERCENT |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Carbon Monoxide | 0.1 U | 0.1 | 1 | PERCENT |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Methane | 0.07 U | 0.07 | 1 | PERCENT |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Nitrogen | 85.1 | 0.34 | 1.9 | PERCENT |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Oxygen | 9.9 | 0.09 | 1.2 | PERCENT |
| | ST106-AR-SVEW01-07042010 | AIR | N | Carbon Dioxide | 3.15 | 0.06 | 1.1 | PERCENT |
| | ST106-AR-SVEW01-07042010 | AIR | N | Carbon Monoxide | 0.11 U | 0.11 | 1.1 | PERCENT |
| | ST106-AR-SVEW01-07042010 | AIR | N | Methane | 0.08 U | 0.08 | 1.1 | PERCENT |
| | ST106-AR-SVEW01-07042010 | AIR | N | Nitrogen | 83.3 | 0.38 | 2.2 | PERCENT |
| | ST106-AR-SVEW01-07042010 | AIR | N | Oxygen | 17.3 | 0.1 | 1.3 | PERCENT |
| **SW8015M** | | | | | | | | |
| | ST106-AR-10610-06042010 | AIR | N | TPH-Gasoline | 67300 | 31.3 | 1075 | UG/L |
| | ST106-AR-10614-06042010 | AIR | N | TPH-Gasoline | 34300 | 14.7 | 505 | UG/L |
| | ST106-AR-1065-06042010 | AIR | N | TPH-Gasoline | 118000 | 60.9 | 2090 | UG/L |
| | ST106-AR-1065INLET-14052010 | AIR | N | TPH-Gasoline | 70300 | 21.8 | 747.5 | UG/L |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | TPH-Gasoline | 193 | 1.33 | 45.8 | UG/L |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | TPH-Gasoline | 755 | 1.33 | 45.8 | UG/L |
| | ST106-AR-1066-06042010 | AIR | N | TPH-Gasoline | 143000 | 65 | 2230 | UG/L |
| | ST106-AR-1068-06042010 | AIR | N | TPH-Gasoline | 81000 | 55.1 | 1890 | UG/L |
| | ST106-AR-1068INLET-14052010 | AIR | N | TPH-Gasoline | 64700 | 26.4 | 905 | UG/L |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | TPH-Gasoline | 3500 | 1.43 | 49 | UG/L |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | TPH-Gasoline | 271 | 1.32 | 45.3 | UG/L |
| | ST106-AR-1069-06042010 | AIR | N | TPH-Gasoline | 170000 | 60.3 | 2070 | UG/L |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **SW8015M** | | | | | | | | |
| | ST106-AR-106INLET-14052010 | AIR | N | TPH-Gasoline | 77900 | 38.2 | 1312.5 | UG/L |
| | ST106-AR-106POSTE1-14052010 | AIR | N | TPH-Gasoline | 378 | 1.78 | 61.3 | UG/L |
| | ST106-AR-106POSTE2-14052010 | AIR | N | TPH-Gasoline | 166 | 1.41 | 48.5 | UG/L |
| | ST106-AR-SVEW01-07042010 | AIR | N | TPH-Gasoline | 77400 | 31.8 | 1090 | UG/L |
| **TO15** | | | | | | | | |
| | ST106-AR-10610-06042010 | AIR | N | 1,1,1-Trichloroethane | 592 U | 592 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 899 U | 899 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,1,2-Trichloroethane | 592 U | 592 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,1-Dichloroethane | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,1-Dichloroethene | 525 U | 525 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 1150 U | 1150 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 42500 | 780 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2-Dibromoethane | 889 J | 639 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 408 U | 408 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2-Dichlorobenzene | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2-Dichloroethane | 633 U | 633 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,2-Dichloropropane | 398 U | 398 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 18100 | 918 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,3-Dichlorobenzene | 677 U | 677 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 1,4-Dichlorobenzene | 1010 U | 1010 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | 2-Butanone | 918 U | 918 | 13300 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Acetone | 2970 J | 791 | 13300 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Benzene | 134000 | 633 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Bromomethane | 677 U | 677 | 6650 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-10610-06042010 | AIR | N | Carbon tetrachloride | 475 UJ | 475 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Chlorobenzene | 585 U | 585 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Chloroethane | 764 U | 764 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Chloroform | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Chloromethane | 563 U | 563 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | cis-1,2-Dichloroethene | 626 U | 626 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | cis-1,3-Dichloropropene | 671 U | 671 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Dichlorodifluoromethane | 475 U | 475 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Ethylbenzene | 128000 | 962 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Hexachlorobutadiene | 1090 U | 1090 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | m,p-Xylene | 257000 | 1960 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 949 U | 949 | 13300 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Methylene chloride | 33250 U | 1020 | 33250 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | o-Xylene | 87700 | 753 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Styrene | 885 U | 885 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Tetrachloroethene | 633 U | 633 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Toluene | 683000 | 1100 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | trans-1,3-Dichloropropene | 866 U | 866 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Trichloroethene | 895 U | 895 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Trichlorofluoromethane | 342 U | 342 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Trichlorotrifluoroethane | 626 U | 626 | 6650 | PPBV |
| | ST106-AR-10610-06042010 | AIR | N | Vinyl Chloride | 483 U | 483 | 6650 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,1,1-Trichloroethane | 110 U | 110 | 1235 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-10614-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 167 U | 167 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,1,2-Trichloroethane | 110 U | 110 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,1-Dichloroethane | 148 U | 148 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,1-Dichloroethene | 97.4 U | 97.4 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 214 U | 214 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 17600 | 145 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2-Dibromoethane | 2140 | 119 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 75.8 U | 75.8 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2-Dichlorobenzene | 148 U | 148 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2-Dichloroethane | 117 U | 117 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,2-Dichloropropane | 73.9 U | 73.9 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 7420 | 170 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,3-Dichlorobenzene | 126 U | 126 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 1,4-Dichlorobenzene | 187 U | 187 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | 2-Butanone | 170 U | 170 | 2470 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Acetone | 17700 | 147 | 2470 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Benzene | 64000 | 117 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Bromomethane | 126 U | 126 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Carbon tetrachloride | 88.1 U | 88.1 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Chlorobenzene | 109 U | 109 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Chloroethane | 142 U | 142 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Chloroform | 148 U | 148 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Chloromethane | 105 U | 105 | 1235 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-10614-06042010 | AIR | N | cis-1,2-Dichloroethene | 116 U | 116 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | cis-1,3-Dichloropropene | 125 U | 125 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Dichlorodifluoromethane | 88.1 U | 88.1 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Ethylbenzene | 17600 | 179 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Hexachlorobutadiene | 203 U | 203 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | m,p-Xylene | 57900 | 364 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 176 U | 176 | 2470 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Methylene chloride | 190 U | 190 | 6175 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | o-Xylene | 26800 | 140 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Styrene | 164 U | 164 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Tetrachloroethene | 117 U | 117 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Toluene | 188000 | 205 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | trans-1,3-Dichloropropene | 161 U | 161 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Trichloroethene | 166 U | 166 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Trichlorofluoromethane | 63.5 U | 63.5 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Trichlorotrifluoroethane | 116 U | 116 | 1235 | PPBV |
| | ST106-AR-10614-06042010 | AIR | N | Vinyl Chloride | 89.8 U | 89.8 | 1235 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,1,1-Trichloroethane | 376 U | 376 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 572 U | 572 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,1,2-Trichloroethane | 376 U | 376 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,1-Dichloroethane | 506 U | 506 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,1-Dichloroethene | 334 U | 334 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 732 U | 732 | 4230 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-1065-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 29700 | 496 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2-Dibromoethane | 407 U | 407 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 260 U | 260 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2-Dichlorobenzene | 506 U | 506 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2-Dichloroethane | 2130 J | 402 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,2-Dichloropropane | 253 U | 253 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 17700 | 584 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,3-Dichlorobenzene | 431 U | 431 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 1,4-Dichlorobenzene | 641 U | 641 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | 2-Butanone | 584 U | 584 | 8460 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Acetone | 3830 J | 503 | 8460 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Benzene | 209000 | 402 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Bromomethane | 431 U | 431 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Carbon tetrachloride | 302 UJ | 302 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Chlorobenzene | 372 U | 372 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Chloroethane | 486 U | 486 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Chloroform | 506 U | 506 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Chloromethane | 358 U | 358 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | cis-1,2-Dichloroethene | 398 U | 398 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | cis-1,3-Dichloropropene | 427 U | 427 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Dichlorodifluoromethane | 302 U | 302 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Ethylbenzene | 39800 | 612 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Hexachlorobutadiene | 695 U | 695 | 4230 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1065-06042010 | AIR | N | m,p-Xylene | 129000 | 1250 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 604 U | 604 | 8460 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Methylene chloride | 21150 U | 649 | 21150 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | o-Xylene | 50500 | 479 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Styrene | 563 U | 563 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Tetrachloroethene | 402 U | 402 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Toluene | 441000 | 702 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | trans-1,3-Dichloropropene | 551 U | 551 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Trichloroethene | 569 U | 569 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Trichlorofluoromethane | 217 U | 217 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Trichlorotrifluoroethane | 398 U | 398 | 4230 | PPBV |
| | ST106-AR-1065-06042010 | AIR | N | Vinyl Chloride | 307 U | 307 | 4230 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,1,1-Trichloroethane | 20.9 UJ | 20.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 300 J | 23.2 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,1,2-Trichloroethane | 25.3 UJ | 25.3 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,1-Dichloroethane | 28.7 UJ | 28.7 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,1-Dichloroethene | 15 UJ | 15 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 23.5 UJ | 23.5 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 1060 J | 22.3 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2-Dibromoethane | 38.2 J | 19.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 29 UJ | 29 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2-Dichlorobenzene | 21.8 UJ | 21.8 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2-Dichloroethane | 55.9 J | 26.4 | 208.5 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,2-Dichloropropane | 25.4 UJ | 25.4 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 512 J | 24 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,3-Dichlorobenzene | 21.2 UJ | 21.2 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 1,4-Dichlorobenzene | 21.2 UJ | 21.2 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | 2-Butanone | 8.29 UJ | 8.29 | 417 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Acetone | 95.3 UJ | 95.3 | 417 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Benzene | 16200 J | 8.5 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Bromomethane | 208.5 U | 18 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Carbon tetrachloride | 11.7 UJ | 11.7 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Chlorobenzene | 25.6 UJ | 25.6 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Chloroethane | 34.4 UJ | 34.4 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Chloroform | 29 UJ | 29 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Chloromethane | 54.6 J | 17.4 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | cis-1,2-Dichloroethene | 31.6 UJ | 31.6 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | cis-1,3-Dichloropropene | 17.2 UJ | 17.2 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Dichlorodifluoromethane | 31.9 UJ | 31.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Ethylbenzene | 2170 J | 26.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Hexachlorobutadiene | 17.7 UJ | 17.7 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | m,p-Xylene | 7370 J | 63.6 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 36.1 UJ | 36.1 | 417 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Methylene chloride | 31.1 UJ | 31.1 | 1042.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | o-Xylene | 2340 J | 29.3 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Styrene | 22.5 UJ | 22.5 | 208.5 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1065INLET-14052010 | AIR | N | Tetrachloroethene | 28.6 UJ | 28.6 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Toluene | 31400 J | 37.2 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | trans-1,3-Dichloropropene | 17.9 UJ | 17.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Trichloroethene | 30.6 UJ | 30.6 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Trichlorofluoromethane | 31.9 UJ | 31.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Trichlorotrifluoroethane | 29.9 UJ | 29.9 | 208.5 | PPBV |
| | ST106-AR-1065INLET-14052010 | AIR | N | Vinyl Chloride | 36.9 UJ | 36.9 | 208.5 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,1,1-Trichloroethane | 5.11 UJ | 5.11 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 5.68 UJ | 5.68 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,1,2-Trichloroethane | 6.19 UJ | 6.19 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,1-Dichloroethane | 7.03 UJ | 7.03 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,1-Dichloroethene | 3.67 UJ | 3.67 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 51 U | 5.76 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 51 U | 5.45 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2-Dibromoethane | 4.88 UJ | 4.88 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 7.09 UJ | 7.09 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2-Dichlorobenzene | 5.33 UJ | 5.33 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2-Dichloroethane | 6.46 UJ | 6.46 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,2-Dichloropropane | 6.22 UJ | 6.22 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 16.4 J | 5.88 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,3-Dichlorobenzene | 5.19 UJ | 5.19 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 1,4-Dichlorobenzene | 51 U | 5.18 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 2-Butanone | 40.2 J | 2.03 | 102 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Acetone | 1460 J | 23.3 | 102 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Benzene | 6540 J | 2.08 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Bromomethane | 73 U | 4.4 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Carbon tetrachloride | 2.86 UJ | 2.86 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Chlorobenzene | 6.27 UJ | 6.27 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Chloroethane | 8.4 UJ | 8.4 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Chloroform | 7.09 UJ | 7.09 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Chloromethane | 21.1 J | 4.25 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | cis-1,2-Dichloroethene | 7.74 UJ | 7.74 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | cis-1,3-Dichloropropene | 4.2 UJ | 4.2 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Dichlorodifluoromethane | 7.8 UJ | 7.8 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Ethylbenzene | 103 J | 6.59 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Hexachlorobutadiene | 51 U | 4.33 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | m,p-Xylene | 15.6 UJ | 15.6 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 8.82 UJ | 8.82 | 102 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Methylene chloride | 7.6 UJ | 7.6 | 255 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | o-Xylene | 112 J | 7.16 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Styrene | 44.1 J | 5.5 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Tetrachloroethene | 6.99 UJ | 6.99 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Toluene | 2980 J | 9.1 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | trans-1,3-Dichloropropene | 4.37 UJ | 4.37 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Trichloroethene | 7.49 UJ | 7.49 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Trichlorofluoromethane | 7.8 UJ | 7.8 | 51 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Trichlorotrifluoroethane | 7.31 UJ | 7.31 | 51 | PPBV |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | Vinyl Chloride | 9.02 UJ | 9.02 | 51 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,1,1-Trichloroethane | 4.66 UJ | 4.66 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 5.18 UJ | 5.18 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,1,2-Trichloroethane | 5.64 UJ | 5.64 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,1-Dichloroethane | 6.4 UJ | 6.4 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,1-Dichloroethene | 3.34 UJ | 3.34 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 5.24 UJ | 5.24 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 63.4 J | 4.97 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2-Dibromoethane | 4.44 UJ | 4.44 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 6.46 UJ | 6.46 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2-Dichlorobenzene | 4.86 UJ | 4.86 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2-Dichloroethane | 5.88 UJ | 5.88 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,2-Dichloropropane | 5.67 UJ | 5.67 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 40.3 J | 5.36 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,3-Dichlorobenzene | 4.73 UJ | 4.73 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 1,4-Dichlorobenzene | 4.72 UJ | 4.72 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 2-Butanone | 43.7 J | 1.85 | 92.9 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Acetone | 709 J | 21.2 | 92.9 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Benzene | 6750 J | 1.89 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Bromomethane | 68.3 U | 4.01 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Carbon tetrachloride | 2.61 UJ | 2.61 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Chlorobenzene | 5.71 UJ | 5.71 | 46.5 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Chloroethane | 7.65 UJ | 7.65 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Chloroform | 6.46 UJ | 6.46 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Chloromethane | 35.4 J | 3.87 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | cis-1,2-Dichloroethene | 7.05 UJ | 7.05 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | cis-1,3-Dichloropropene | 3.83 UJ | 3.83 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Dichlorodifluoromethane | 7.1 UJ | 7.1 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Ethylbenzene | 223 J | 6 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Hexachlorobutadiene | 3.94 UJ | 3.94 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | m,p-Xylene | 619 J | 14.2 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 8.03 UJ | 8.03 | 92.9 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Methylene chloride | 6.92 UJ | 6.92 | 232.3 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | o-Xylene | 304 J | 6.53 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Styrene | 167 J | 5.01 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Tetrachloroethene | 6.37 UJ | 6.37 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Toluene | 5290 J | 8.29 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | trans-1,3-Dichloropropene | 3.98 UJ | 3.98 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Trichloroethene | 6.83 UJ | 6.83 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Trichlorofluoromethane | 7.11 UJ | 7.11 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Trichlorotrifluoroethane | 6.66 UJ | 6.66 | 46.5 | PPBV |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | Vinyl Chloride | 8.21 UJ | 8.21 | 46.5 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,1,1-Trichloroethane | 894 U | 894 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 2690 J | 1360 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,1,2-Trichloroethane | 894 U | 894 | 10050 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1066-06042010 | AIR | N | 1,1-Dichloroethane | 1200 U | 1200 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,1-Dichloroethene | 793 U | 793 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 10050 U | 1740 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 27700 | 1180 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2-Dibromoethane | 5630 J | 966 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 617 U | 617 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2-Dichlorobenzene | 1200 U | 1200 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2-Dichloroethane | 956 U | 956 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,2-Dichloropropane | 601 U | 601 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 13800 | 1390 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,3-Dichlorobenzene | 1020 U | 1020 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 1,4-Dichlorobenzene | 1520 U | 1520 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | 2-Butanone | 9410 J | 1390 | 20100 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Acetone | 71100 | 1200 | 20100 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Benzene | 538000 | 956 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Bromomethane | 1020 U | 1020 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Carbon tetrachloride | 717 UJ | 717 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Chlorobenzene | 883 U | 883 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Chloroethane | 1150 U | 1150 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Chloroform | 1200 U | 1200 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Chloromethane | 850 U | 850 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | cis-1,2-Dichloroethene | 946 U | 946 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | cis-1,3-Dichloropropene | 1010 U | 1010 | 10050 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1066-06042010 | AIR | N | Dichlorodifluoromethane | 717 U | 717 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Ethylbenzene | 104000 | 1450 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Hexachlorobutadiene | 1650 U | 1650 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | m,p-Xylene | 298000 | 2960 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 1430 U | 1430 | 20100 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Methylene chloride | 50250 U | 1540 | 50250 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | o-Xylene | 96600 | 1140 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Styrene | 1340 U | 1340 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Tetrachloroethene | 956 U | 956 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Toluene | 1770000 | 1670 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | trans-1,3-Dichloropropene | 1310 U | 1310 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Trichloroethene | 1350 U | 1350 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Trichlorofluoromethane | 516 U | 516 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Trichlorotrifluoroethane | 946 U | 946 | 10050 | PPBV |
| | ST106-AR-1066-06042010 | AIR | N | Vinyl Chloride | 730 U | 730 | 10050 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,1,1-Trichloroethane | 596 U | 596 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 906 U | 906 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,1,2-Trichloroethane | 596 U | 596 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,1-Dichloroethane | 802 U | 802 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,1-Dichloroethene | 529 U | 529 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 1160 U | 1160 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 26100 | 786 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2-Dibromoethane | 1290 J | 644 | 6700 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 411 U | 411 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2-Dichlorobenzene | 802 U | 802 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2-Dichloroethane | 637 U | 637 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,2-Dichloropropane | 401 U | 401 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 11500 | 924 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,3-Dichlorobenzene | 682 U | 682 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 1,4-Dichlorobenzene | 1020 U | 1020 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | 2-Butanone | 924 U | 924 | 13400 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Acetone | 23500 | 797 | 13400 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Benzene | 311000 | 637 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Bromomethane | 682 U | 682 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Carbon tetrachloride | 478 UJ | 478 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Chlorobenzene | 589 U | 589 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Chloroethane | 770 U | 770 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Chloroform | 802 U | 802 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Chloromethane | 567 U | 567 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | cis-1,2-Dichloroethene | 631 U | 631 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | cis-1,3-Dichloropropene | 676 U | 676 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Dichlorodifluoromethane | 478 U | 478 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Ethylbenzene | 53700 | 969 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Hexachlorobutadiene | 1100 U | 1100 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | m,p-Xylene | 161000 | 1980 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 956 U | 956 | 13400 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-1068-06042010 | AIR | N | Methylene chloride | 33500 U | 1030 | 33500 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | o-Xylene | 51800 | 758 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Styrene | 892 U | 892 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Tetrachloroethene | 637 U | 637 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Toluene | 729000 | 1110 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | trans-1,3-Dichloropropene | 873 U | 873 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Trichloroethene | 901 U | 901 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Trichlorofluoromethane | 344 U | 344 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Trichlorotrifluoroethane | 631 U | 631 | 6700 | PPBV |
| | ST106-AR-1068-06042010 | AIR | N | Vinyl Chloride | 487 U | 487 | 6700 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,1,1-Trichloroethane | 422 UJ | 422 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 469 UJ | 469 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,1,2-Trichloroethane | 511 UJ | 511 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,1-Dichloroethane | 580 UJ | 580 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,1-Dichloroethene | 303 UJ | 303 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 4210 U | 475 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 7130 J | 450 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2-Dibromoethane | 423 J | 403 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 585 UJ | 585 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2-Dichlorobenzene | 440 UJ | 440 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2-Dichloroethane | 533 UJ | 533 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,2-Dichloropropane | 514 UJ | 514 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 3550 J | 485 | 4210 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,3-Dichlorobenzene | 428 UJ | 428 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 1,4-Dichlorobenzene | 428 UJ | 428 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | 2-Butanone | 1730 J | 167 | 8420 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Acetone | 1920 UJ | 1920 | 8420 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Benzene | 138000 J | 172 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Bromomethane | 4210 U | 363 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Carbon tetrachloride | 236 UJ | 236 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Chlorobenzene | 517 UJ | 517 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Chloroethane | 694 UJ | 694 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Chloroform | 586 UJ | 586 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Chloromethane | 564 J | 351 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | cis-1,2-Dichloroethene | 639 UJ | 639 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | cis-1,3-Dichloropropene | 347 UJ | 347 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Dichlorodifluoromethane | 644 UJ | 644 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Ethylbenzene | 21400 J | 544 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Hexachlorobutadiene | 357 UJ | 357 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | m,p-Xylene | 30600 J | 1280 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 728 UJ | 728 | 8420 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Methylene chloride | 627 UJ | 627 | 21050 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | o-Xylene | 18200 J | 591 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Styrene | 454 UJ | 454 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Tetrachloroethene | 577 UJ | 577 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Toluene | 318000 J | 751 | 4210 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068INLET-14052010 | AIR | N | trans-1,3-Dichloropropene | 361 UJ | 361 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Trichloroethene | 619 UJ | 619 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Trichlorofluoromethane | 644 UJ | 644 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Trichlorotrifluoroethane | 603 UJ | 603 | 4210 | PPBV |
| | ST106-AR-1068INLET-14052010 | AIR | N | Vinyl Chloride | 744 UJ | 744 | 4210 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,1,1-Trichloroethane | 8.85 UJ | 8.85 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 13.5 UJ | 13.5 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,1,2-Trichloroethane | 8.85 UJ | 8.85 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,1-Dichloroethane | 11.9 UJ | 11.9 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,1-Dichloroethene | 7.85 UJ | 7.85 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 17.2 UJ | 17.2 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 11.7 UJ | 11.7 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2-Dibromoethane | 9.57 UJ | 9.57 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 99.5 U | 6.11 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2-Dichlorobenzene | 11.9 UJ | 11.9 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2-Dichloroethane | 9.47 UJ | 9.47 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,2-Dichloropropane | 870 J | 5.95 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 13.7 UJ | 13.7 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,3-Dichlorobenzene | 10.1 UJ | 10.1 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 1,4-Dichlorobenzene | 15.1 UJ | 15.1 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 2-Butanone | 13.7 UJ | 13.7 | 199 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Acetone | 11.8 UJ | 11.8 | 199 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Benzene | 19800 J | 9.47 | 99.5 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Bromomethane | 99.5 U | 10.1 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Carbon tetrachloride | 7.1 UJ | 7.1 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Chlorobenzene | 8.75 UJ | 8.75 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Chloroethane | 11.4 UJ | 11.4 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Chloroform | 11.9 UJ | 11.9 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Chloromethane | 20.3 J | 8.42 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | cis-1,2-Dichloroethene | 9.36 UJ | 9.36 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | cis-1,3-Dichloropropene | 10 UJ | 10 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Dichlorodifluoromethane | 7.1 UJ | 7.1 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Ethylbenzene | 14.4 UJ | 14.4 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Hexachlorobutadiene | 16.3 UJ | 16.3 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | m,p-Xylene | 29.3 UJ | 29.3 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 14.2 UJ | 14.2 | 199 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Methylene chloride | 15.3 UJ | 15.3 | 497.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | o-Xylene | 11.3 UJ | 11.3 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Styrene | 13.2 UJ | 13.2 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Tetrachloroethene | 24.4 J | 9.47 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Toluene | 52.1 J | 16.5 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | trans-1,3-Dichloropropene | 13 UJ | 13 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Trichloroethene | 61.8 J | 13.4 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Trichlorofluoromethane | 5.11 UJ | 5.11 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Trichlorotrifluoroethane | 9.36 UJ | 9.36 | 99.5 | PPBV |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | Vinyl Chloride | 7.23 UJ | 7.23 | 99.5 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,1,1-Trichloroethane | 1.13 UJ | 1.13 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 1.26 UJ | 1.26 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,1,2-Trichloroethane | 1.37 UJ | 1.37 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,1-Dichloroethane | 1.56 UJ | 1.56 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,1-Dichloroethene | 0.81 UJ | 0.81 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 11.3 U | 1.28 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 11.3 U | 1.21 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2-Dibromoethane | 1.08 UJ | 1.08 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 1.57 UJ | 1.57 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2-Dichlorobenzene | 1.18 UJ | 1.18 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2-Dichloroethane | 1.43 UJ | 1.43 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,2-Dichloropropane | 1.38 UJ | 1.38 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 1.3 UJ | 1.3 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,3-Dichlorobenzene | 1.15 UJ | 1.15 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 1,4-Dichlorobenzene | 1.15 UJ | 1.15 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 2-Butanone | 0.45 UJ | 0.45 | 22.6 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Acetone | 5.16 UJ | 5.16 | 22.6 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Benzene | 781 J | 0.46 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Bromomethane | 11.3 U | 0.98 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Carbon tetrachloride | 0.63 UJ | 0.63 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Chlorobenzene | 1.39 UJ | 1.39 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Chloroethane | 1.86 UJ | 1.86 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Chloroform | 1.57 UJ | 1.57 | 11.3 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Chloromethane | 2 J | 0.94 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | cis-1,2-Dichloroethene | 1.71 UJ | 1.71 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | cis-1,3-Dichloropropene | 0.93 UJ | 0.93 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Dichlorodifluoromethane | 1.73 UJ | 1.73 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Ethylbenzene | 4.44 J | 1.46 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Hexachlorobutadiene | 11.3 U | 0.96 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | m,p-Xylene | 3.45 UJ | 3.45 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 1.95 UJ | 1.95 | 22.6 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Methylene chloride | 1.68 UJ | 1.68 | 56.5 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | o-Xylene | 4.18 J | 1.59 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Styrene | 1.22 UJ | 1.22 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Tetrachloroethene | 1.55 UJ | 1.55 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Toluene | 44.9 J | 2.02 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | trans-1,3-Dichloropropene | 0.97 UJ | 0.97 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Trichloroethene | 1.66 UJ | 1.66 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Trichlorofluoromethane | 1.73 UJ | 1.73 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Trichlorotrifluoroethane | 1.62 UJ | 1.62 | 11.3 | PPBV |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | Vinyl Chloride | 2 UJ | 2 | 11.3 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,1,1-Trichloroethane | 592 U | 592 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 899 U | 899 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,1,2-Trichloroethane | 592 U | 592 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,1-Dichloroethane | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,1-Dichloroethene | 525 U | 525 | 6650 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1069-06042010 | AIR | N | 1,2,4-Trichlorobenzene | 1150 U | 1150 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2,4-Trimethylbenzene | 29300 | 780 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2-Dibromoethane | 768 J | 639 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 408 U | 408 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2-Dichlorobenzene | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2-Dichloroethane | 3550 J | 633 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,2-Dichloropropane | 398 U | 398 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,3,5-Trimethylbenzene | 21000 | 918 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,3-Dichlorobenzene | 677 U | 677 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 1,4-Dichlorobenzene | 1010 U | 1010 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | 2-Butanone | 918 U | 918 | 13300 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Acetone | 791 U | 791 | 13300 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Benzene | 289000 | 633 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Bromomethane | 677 U | 677 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Carbon tetrachloride | 475 UJ | 475 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Chlorobenzene | 585 U | 585 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Chloroethane | 764 U | 764 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Chloroform | 796 U | 796 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Chloromethane | 563 U | 563 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | cis-1,2-Dichloroethene | 626 U | 626 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | cis-1,3-Dichloropropene | 671 U | 671 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Dichlorodifluoromethane | 475 U | 475 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Ethylbenzene | 65500 | 962 | 6650 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-1069-06042010 | AIR | N | Hexachlorobutadiene | 1090 U | 1090 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | m,p-Xylene | 225000 | 1960 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 949 U | 949 | 13300 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Methylene chloride | 33250 U | 1020 | 33250 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | o-Xylene | 73200 | 753 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Styrene | 885 U | 885 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Tetrachloroethene | 633 U | 633 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Toluene | 796000 | 1100 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | trans-1,3-Dichloropropene | 866 U | 866 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Trichloroethene | 1090 J | 895 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Trichlorofluoromethane | 342 U | 342 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Trichlorotrifluoroethane | 626 U | 626 | 6650 | PPBV |
| | ST106-AR-1069-06042010 | AIR | N | Vinyl Chloride | 483 U | 483 | 6650 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,1,1-Trichloroethane | 521 UJ | 521 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 580 UJ | 580 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,1,2-Trichloroethane | 631 UJ | 631 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,1-Dichloroethane | 716 UJ | 716 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,1-Dichloroethene | 374 UJ | 374 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 587 UJ | 587 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 14500 J | 556 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2-Dibromoethane | 1290 J | 497 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 723 UJ | 723 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2-Dichlorobenzene | 544 UJ | 544 | 5200 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2-Dichloroethane | 658 UJ | 658 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,2-Dichloropropane | 635 UJ | 635 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 6140 J | 600 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,3-Dichlorobenzene | 529 UJ | 529 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 1,4-Dichlorobenzene | 529 UJ | 529 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | 2-Butanone | 34100 J | 207 | 10400 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Acetone | 477000 J | 2380 | 10400 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Benzene | 344000 J | 212 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Bromomethane | 5200 U | 449 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Carbon tetrachloride | 292 UJ | 292 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Chlorobenzene | 639 UJ | 639 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Chloroethane | 857 UJ | 857 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Chloroform | 723 UJ | 723 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Chloromethane | 944 J | 433 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | cis-1,2-Dichloroethene | 789 UJ | 789 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | cis-1,3-Dichloropropene | 428 UJ | 428 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Dichlorodifluoromethane | 795 UJ | 795 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Ethylbenzene | 52400 J | 672 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Hexachlorobutadiene | 441 UJ | 441 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | m,p-Xylene | 123000 J | 1590 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 899 UJ | 899 | 10400 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Methylene chloride | 774 UJ | 774 | 26000 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | o-Xylene | 41400 J | 730 | 5200 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-106INLET-14052010 | AIR | N | Styrene | 561 UJ | 561 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Tetrachloroethene | 713 UJ | 713 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Toluene | 767000 J | 928 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | trans-1,3-Dichloropropene | 446 UJ | 446 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Trichloroethene | 764 UJ | 764 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Trichlorofluoromethane | 796 UJ | 796 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Trichlorotrifluoroethane | 745 UJ | 745 | 5200 | PPBV |
| | ST106-AR-106INLET-14052010 | AIR | N | Vinyl Chloride | 919 UJ | 919 | 5200 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,1,1-Trichloroethane | 3.51 UJ | 3.51 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 3.9 UJ | 3.9 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,1,2-Trichloroethane | 4.25 UJ | 4.25 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,1-Dichloroethane | 4.82 UJ | 4.82 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,1-Dichloroethene | 2.52 UJ | 2.52 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 3.95 UJ | 3.95 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 33.6 J | 3.74 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2-Dibromoethane | 3.35 UJ | 3.35 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 4.86 UJ | 4.86 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2-Dichlorobenzene | 3.66 UJ | 3.66 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2-Dichloroethane | 4.43 UJ | 4.43 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,2-Dichloropropane | 4.27 UJ | 4.27 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 14.7 J | 4.04 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,3-Dichlorobenzene | 3.56 UJ | 3.56 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 1,4-Dichlorobenzene | 3.56 UJ | 3.56 | 35 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 2-Butanone | 471 J | 1.39 | 70 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Acetone | 5860 J | 16 | 70 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Benzene | 1560 J | 1.43 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Bromomethane | 43 U | 3.02 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Carbon tetrachloride | 1.96 UJ | 1.96 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Chlorobenzene | 4.3 UJ | 4.3 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Chloroethane | 5.77 UJ | 5.77 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Chloroform | 4.87 UJ | 4.87 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Chloromethane | 14.5 J | 2.92 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | cis-1,2-Dichloroethene | 5.31 UJ | 5.31 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | cis-1,3-Dichloropropene | 2.88 UJ | 2.88 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Dichlorodifluoromethane | 5.35 UJ | 5.35 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Ethylbenzene | 161 J | 4.52 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Hexachlorobutadiene | 2.97 UJ | 2.97 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | m,p-Xylene | 10.7 UJ | 10.7 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 6.05 UJ | 6.05 | 70 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Methylene chloride | 5.21 UJ | 5.21 | 175 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | o-Xylene | 77.2 J | 4.92 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Styrene | 41.2 J | 3.78 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Tetrachloroethene | 4.8 UJ | 4.8 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Toluene | 1500 J | 6.25 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | trans-1,3-Dichloropropene | 3 UJ | 3 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Trichloroethene | 16.8 J | 5.14 | 35 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Trichlorofluoromethane | 5.36 UJ | 5.36 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Trichlorotrifluoroethane | 5.02 UJ | 5.02 | 35 | PPBV |
| | ST106-AR-106POSTE1-14052010 | AIR | N | Vinyl Chloride | 6.19 UJ | 6.19 | 35 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,1,1-Trichloroethane | 1.22 UJ | 1.22 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,1,2,2-Tetrachloroethane | 1.35 UJ | 1.35 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,1,2-Trichloroethane | 1.48 UJ | 1.48 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,1-Dichloroethane | 1.67 UJ | 1.67 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,1-Dichloroethene | 0.87 UJ | 0.87 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2,4-Trichlorobenzene | 1.37 UJ | 1.37 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2,4-Trimethylbenzene | 10.6 J | 1.3 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2-Dibromoethane | 1.16 UJ | 1.16 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 1.69 UJ | 1.69 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2-Dichlorobenzene | 1.27 UJ | 1.27 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2-Dichloroethane | 1.54 UJ | 1.54 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,2-Dichloropropane | 1.48 UJ | 1.48 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,3,5-Trimethylbenzene | 4.71 J | 1.4 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,3-Dichlorobenzene | 1.24 UJ | 1.24 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 1,4-Dichlorobenzene | 1.23 UJ | 1.23 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 2-Butanone | 108 J | 0.48 | 24.3 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Acetone | 1210 J | 5.55 | 24.3 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Benzene | 478 J | 0.5 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Bromomethane | 16.7 U | 1.05 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Carbon tetrachloride | 0.68 UJ | 0.68 | 12.2 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| TO15 | | | | | | | | |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Chlorobenzene | 1.49 UJ | 1.49 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Chloroethane | 2 UJ | 2 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Chloroform | 1.69 UJ | 1.69 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Chloromethane | 3.96 J | 1.01 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | cis-1,2-Dichloroethene | 1.84 UJ | 1.84 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | cis-1,3-Dichloropropene | 1 UJ | 1 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Dichlorodifluoromethane | 1.86 UJ | 1.86 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Ethylbenzene | 62.7 J | 1.57 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Hexachlorobutadiene | 1.03 UJ | 1.03 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | m,p-Xylene | 3.71 UJ | 3.71 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Methyl tert-butyl ether (MTBE) | 2.1 UJ | 2.1 | 24.3 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Methylene chloride | 1.81 UJ | 1.81 | 60.8 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | o-Xylene | 26 J | 1.71 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Styrene | 19.9 J | 1.31 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Tetrachloroethene | 1.67 UJ | 1.67 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Toluene | 506 J | 2.17 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | trans-1,3-Dichloropropene | 1.04 UJ | 1.04 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Trichloroethene | 1.79 UJ | 1.79 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Trichlorofluoromethane | 1.86 UJ | 1.86 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Trichlorotrifluoroethane | 1.74 UJ | 1.74 | 12.2 | PPBV |
| | ST106-AR-106POSTE2-14052010 | AIR | N | Vinyl Chloride | 2.15 UJ | 2.15 | 12.2 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,1,1-Trichloroethane | 614 U | 614 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,1,2,2-Tetrachloroethane | 933 U | 933 | 6900 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,1,2-Trichloroethane | 614 U | 614 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,1-Dichloroethane | 826 U | 826 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,1-Dichloroethene | 544 U | 544 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2,4-Trichlorobenzene | 1190 U | 1190 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2,4-Trimethylbenzene | 39300 | 809 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2-Dibromoethane | 1100 J | 663 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 424 U | 424 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2-Dichlorobenzene | 826 U | 826 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2-Dichloroethane | 656 U | 656 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,2-Dichloropropane | 413 U | 413 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,3,5-Trimethylbenzene | 16000 | 952 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,3-Dichlorobenzene | 702 U | 702 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 1,4-Dichlorobenzene | 1050 U | 1050 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | 2-Butanone | 54600 | 952 | 13800 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Acetone | 496000 | 821 | 13800 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Benzene | 212000 | 656 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Bromomethane | 702 U | 702 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Carbon tetrachloride | 492 UJ | 492 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Chlorobenzene | 607 U | 607 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Chloroethane | 793 U | 793 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Chloroform | 826 U | 826 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Chloromethane | 584 U | 584 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | cis-1,2-Dichloroethene | 649 U | 649 | 6900 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | |
| | ST106-AR-SVEW01-07042010 | AIR | N | cis-1,3-Dichloropropene | 696 U | 696 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Dichlorodifluoromethane | 492 U | 492 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Ethylbenzene | 72700 | 998 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Hexachlorobutadiene | 1130 U | 1130 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | m,p-Xylene | 214000 | 2030 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Methyl tert-butyl ether (MTBE) | 985 U | 985 | 13800 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Methylene chloride | 34500 U | 1060 | 34500 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | o-Xylene | 70100 | 781 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Styrene | 919 U | 919 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Tetrachloroethene | 656 U | 656 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Toluene | 678000 | 1140 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | trans-1,3-Dichloropropene | 899 U | 899 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Trichloroethene | 1120 J | 928 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Trichlorofluoromethane | 355 U | 355 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Trichlorotrifluoroethane | 649 U | 649 | 6900 | PPBV |
| | ST106-AR-SVEW01-07042010 | AIR | N | Vinyl Chloride | 501 U | 501 | 6900 | PPBV |

## Table B-9. Summary of Vapor Analytical Results for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Analyte | Result* | MDL | RL | Units |
|---|---|---|---|---|---|---|---|---|

**QA/QC Type**

N = Normal Environmental Sample
FD = Field Duplicate

* The most severe flag for each analyte becomes the final validation flag

**Qualifier Description:**

J = The analyte was positively identified, the quantitation is an estimate.
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL).
UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL) and the the quantitation is an estimate.

# Table B-10. Summary of Holding Times for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **A2720C** | ST106-AR-10610-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-10614-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-1065-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-1065INLET-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1066-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-1068-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-1068INLET-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-1069-06042010 | AIR | N | 8 Days - A | 4/6/2010 | | 4/14/2010 |
| | ST106-AR-106INLET-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 8 Days - A | 5/14/2010 | | 5/22/2010 |
| | ST106-AR-SVEW01-07042010 | AIR | N | 7 Days - A | 4/7/2010 | | 4/14/2010 |
| **SW8015M** | ST106-AR-10610-06042010 | AIR | N | 6 Days - A | 4/6/2010 | | 4/12/2010 |
| | ST106-AR-10614-06042010 | AIR | N | 7 Days - A | 4/6/2010 | | 4/13/2010 |
| | ST106-AR-1065-06042010 | AIR | N | 7 Days - A | 4/6/2010 | | 4/13/2010 |
| | ST106-AR-1065INLET-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1066-06042010 | AIR | N | 6 Days - A | 4/6/2010 | | 4/12/2010 |
| | ST106-AR-1068-06042010 | AIR | N | 6 Days - A | 4/6/2010 | | 4/12/2010 |
| | ST106-AR-1068INLET-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-1069-06042010 | AIR | N | 7 Days - A | 4/6/2010 | | 4/13/2010 |
| | ST106-AR-106INLET-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 10 Days - A | 5/14/2010 | | 5/24/2010 |
| | ST106-AR-SVEW01-07042010 | AIR | N | 6 Days - A | 4/7/2010 | | 4/13/2010 |
| **TO15** | ST106-AR-10610-06042010 | AIR | N | 14 Days - A | 4/6/2010 | | 4/20/2010 |
| | ST106-AR-10614-06042010 | AIR | N | 16 Days - A | 4/6/2010 | | 4/22/2010 |
| | ST106-AR-1065-06042010 | AIR | N | 14 Days - A | 4/6/2010 | | 4/20/2010 |
| | ST106-AR-1065INLET-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-1065POSTE1-14052010 | AIR | N | 35 Days - A | 5/14/2010 | | 6/18/2010 |
| | ST106-AR-1065POSTE2-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-1066-06042010 | AIR | N | 14 Days - A | 4/6/2010 | | 4/20/2010 |

## Table B-10. Summary of Holding Times for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Sample ID | Matrix | QA/QC Type | Holding time - Type* | Sample Date | Extract Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| **TO15** | ST106-AR-1068-06042010 | AIR | N | 14 Days - A | 4/6/2010 | | 4/20/2010 |
| | ST106-AR-1068INLET-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-1068POSTE1-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-1068POSTE2-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-1069-06042010 | AIR | N | 14 Days - A | 4/6/2010 | | 4/20/2010 |
| | ST106-AR-106INLET-14052010 | AIR | N | 35 Days - A | 5/14/2010 | | 6/18/2010 |
| | ST106-AR-106POSTE1-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-106POSTE2-14052010 | AIR | N | 34 Days - A | 5/14/2010 | | 6/17/2010 |
| | ST106-AR-SVEW01-07042010 | AIR | N | 13 Days - A | 4/7/2010 | | 4/20/2010 |

* Holding Time - Type 'A' = Analysis holding time, 'E' = Extraction holding time

**QA/QC Type**

N = Normal Environmental Sample
FD = Field Duplicate

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **A2720C** | | | | | | | | | | | |
| | XB1-0414 | AIR | LB | J1574 | Carbon Dioxide | 4/14/2010 | 0.03 | 0.03 | 0.5 | U | PERCENT |
| | XB1-0414 | | LB | J1574 | Carbon Monoxide | 4/14/2010 | 0.05 | 0.05 | 0.5 | U | PERCENT |
| | XB1-0414 | | LB | J1574 | Methane | 4/14/2010 | 0.04 | 0.04 | 0.5 | U | PERCENT |
| | XB1-0414 | | LB | J1574 | Nitrogen | 4/14/2010 | 0.17 | 0.17 | 1 | U | PERCENT |
| | XB1-0414 | | LB | J1574 | Oxygen | 4/14/2010 | 0.04 | 0.04 | 0.6 | U | PERCENT |
| | XB2-0522 | | LB | J1876 | Carbon Dioxide | 5/22/2010 | 0.03 | 0.03 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1875 | Carbon Dioxide | 5/22/2010 | 0.03 | 0.03 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1875 | Carbon Monoxide | 5/22/2010 | 0.05 | 0.05 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1876 | Carbon Monoxide | 5/22/2010 | 0.05 | 0.05 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1875 | Methane | 5/22/2010 | 0.04 | 0.04 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1876 | Methane | 5/22/2010 | 0.04 | 0.04 | 0.5 | U | PERCENT |
| | XB2-0522 | | LB | J1876 | Nitrogen | 5/22/2010 | 0.17 | 0.17 | 1 | U | PERCENT |
| | XB2-0522 | | LB | J1875 | Nitrogen | 5/22/2010 | 0.17 | 0.17 | 1 | U | PERCENT |
| | XB2-0522 | | LB | J1875 | Oxygen | 5/22/2010 | 0.04 | 0.04 | 0.6 | U | PERCENT |
| | XB2-0522 | | LB | J1876 | Oxygen | 5/22/2010 | 0.04 | 0.04 | 0.6 | U | PERCENT |
| **SW8015M** | | | | | | | | | | | |
| | XB2-0412 | AIR | LB | J1574 | TPH-Gasoline | 4/12/2010 | 1.36 | 0.73 | 25 | J | UG/L |
| | XB2-0413 | | LB | J1574 | TPH-Gasoline | 4/13/2010 | 4.21 | 0.73 | 25 | J | UG/L |
| | XB2-0524 | | LB | J1875 | TPH-Gasoline | 5/24/2010 | 5.12 | 0.73 | 25 | J | UG/L |
| | XB2-0524 | | LB | J1876 | TPH-Gasoline | 5/24/2010 | 5.12 | 0.73 | 25 | J | UG/L |
| **TO15** | | | | | | | | | | | |
| | XB1-0420 | AIR | LB | J1574 | 1,1,1-Trichloroethane | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,1,2,2-Tetrachloroethane | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,1,2-Trichloroethane | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,1-Dichloroethane | 4/20/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,1-Dichloroethene | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2,4-Trichlorobenzene | 4/20/2010 | 0.28 | 0.09 | 0.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2,4-Trimethylbenzene | 4/20/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2-Dibromoethane | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 4/20/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2-Dichlorobenzene | 4/20/2010 | 0.12 | 0.06 | 0.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2-Dichloroethane | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,2-Dichloropropane | 4/20/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB1-0420 | AIR | LB | J1574 | 1,3,5-Trimethylbenzene | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | 1,3-Dichlorobenzene | 4/20/2010 | 0.11 | 0.05 | 0.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | 1,4-Dichlorobenzene | 4/20/2010 | 0.13 | 0.08 | 0.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | 2-Butanone | 4/20/2010 | 0.07 | 0.07 | 1 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Acetone | 4/20/2010 | 0.06 | 0.06 | 1 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Benzene | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Bromomethane | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Carbon tetrachloride | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Chlorobenzene | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Chloroethane | 4/20/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Chloroform | 4/20/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Chloromethane | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | cis-1,2-Dichloroethene | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | cis-1,3-Dichloropropene | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Dichlorodifluoromethane | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Ethylbenzene | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Hexachlorobutadiene | 4/20/2010 | 0.2 | 0.08 | 0.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | m,p-Xylene | 4/20/2010 | 0.15 | 0.15 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Methyl tert-butyl ether (MTBE) | 4/20/2010 | 0.07 | 0.07 | 1 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Methylene chloride | 4/20/2010 | 0.17 | 0.08 | 2.5 | J | PPBV |
| | XB1-0420 | | LB | J1574 | o-Xylene | 4/20/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Styrene | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Tetrachloroethene | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Toluene | 4/20/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | trans-1,3-Dichloropropene | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Trichloroethene | 4/20/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Trichlorofluoromethane | 4/20/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Trichlorotrifluoroethane | 4/20/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB1-0420 | | LB | J1574 | Vinyl Chloride | 4/20/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,1,1-Trichloroethane | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,1,2,2-Tetrachloroethane | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,1,2-Trichloroethane | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,1-Dichloroethane | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB2-0421 | AIR | LB | J1574 | 1,1-Dichloroethene | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2,4-Trichlorobenzene | 4/21/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2,4-Trimethylbenzene | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2-Dibromoethane | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 4/21/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2-Dichlorobenzene | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2-Dichloroethane | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,2-Dichloropropane | 4/21/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,3,5-Trimethylbenzene | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,3-Dichlorobenzene | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 1,4-Dichlorobenzene | 4/21/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | 2-Butanone | 4/21/2010 | 0.07 | 0.07 | 1 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Acetone | 4/21/2010 | 0.06 | 0.06 | 1 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Benzene | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Bromomethane | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Carbon tetrachloride | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Chlorobenzene | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Chloroethane | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Chloroform | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Chloromethane | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | cis-1,2-Dichloroethene | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | cis-1,3-Dichloropropene | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Dichlorodifluoromethane | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Ethylbenzene | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Hexachlorobutadiene | 4/21/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | m,p-Xylene | 4/21/2010 | 0.15 | 0.15 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Methyl tert-butyl ether (MTBE) | 4/21/2010 | 0.07 | 0.07 | 1 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Methylene chloride | 4/21/2010 | 0.14 | 0.08 | 2.5 | J | PPBV |
| | XB2-0421 | | LB | J1574 | o-Xylene | 4/21/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Styrene | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Tetrachloroethene | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Toluene | 4/21/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | trans-1,3-Dichloropropene | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB2-0421 | AIR | LB | J1574 | Trichloroethene | 4/21/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Trichlorofluoromethane | 4/21/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Trichlorotrifluoroethane | 4/21/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0421 | | LB | J1574 | Vinyl Chloride | 4/21/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,1,1-Trichloroethane | 6/17/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,1,1-Trichloroethane | 6/17/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,1,2,2-Tetrachloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,1,2,2-Tetrachloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,1,2-Trichloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,1,2-Trichloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,1-Dichloroethane | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,1-Dichloroethane | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,1-Dichloroethene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,1-Dichloroethene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2,4-Trichlorobenzene | 6/17/2010 | 0.24 | 0.06 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2,4-Trichlorobenzene | 6/17/2010 | 0.24 | 0.06 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2,4-Trimethylbenzene | 6/17/2010 | 0.06 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2,4-Trimethylbenzene | 6/17/2010 | 0.06 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2-Dibromoethane | 6/17/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2-Dibromoethane | 6/17/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 6/17/2010 | 0.14 | 0.07 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 6/17/2010 | 0.14 | 0.07 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2-Dichlorobenzene | 6/17/2010 | 0.09 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2-Dichlorobenzene | 6/17/2010 | 0.09 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2-Dichloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2-Dichloroethane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,2-Dichloropropane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,2-Dichloropropane | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,3,5-Trimethylbenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | 1,3,5-Trimethylbenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 1,3-Dichlorobenzene | 6/17/2010 | 0.09 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,3-Dichlorobenzene | 6/17/2010 | 0.09 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 1,4-Dichlorobenzene | 6/17/2010 | 0.11 | 0.05 | 0.5 | J | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB2-0617 | AIR | LB | J1875 | 1,4-Dichlorobenzene | 6/17/2010 | 0.11 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | 2-Butanone | 6/17/2010 | 0.02 | 0.02 | 1 | U | PPBV |
| | XB2-0617 | | LB | J1875 | 2-Butanone | 6/17/2010 | 0.02 | 0.02 | 1 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Acetone | 6/17/2010 | 0.55 | 0.23 | 1 | J | PPBV |
| | XB2-0617 | | LB | J1876 | Acetone | 6/17/2010 | 0.55 | 0.23 | 1 | J | PPBV |
| | XB2-0617 | | LB | J1875 | Benzene | 6/17/2010 | 0.02 | 0.02 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Benzene | 6/17/2010 | 0.02 | 0.02 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Bromomethane | 6/17/2010 | 0.16 | 0.04 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | Bromomethane | 6/17/2010 | 0.16 | 0.04 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | Carbon tetrachloride | 6/17/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Carbon tetrachloride | 6/17/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Chlorobenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Chlorobenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Chloroethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Chloroethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Chloroform | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Chloroform | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Chloromethane | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Chloromethane | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | cis-1,2-Dichloroethene | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | cis-1,2-Dichloroethene | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | cis-1,3-Dichloropropene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | cis-1,3-Dichloropropene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Dichlorodifluoromethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Dichlorodifluoromethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Ethylbenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Ethylbenzene | 6/17/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Hexachlorobutadiene | 6/17/2010 | 0.09 | 0.04 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1875 | Hexachlorobutadiene | 6/17/2010 | 0.09 | 0.04 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | m,p-Xylene | 6/17/2010 | 0.15 | 0.15 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | m,p-Xylene | 6/17/2010 | 0.15 | 0.15 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Methyl tert-butyl ether (MTBE) | 6/17/2010 | 0.09 | 0.09 | 1 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Methyl tert-butyl ether (MTBE) | 6/17/2010 | 0.09 | 0.09 | 1 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB2-0617 | AIR | LB | J1876 | Methylene chloride | 6/17/2010 | 0.07 | 0.07 | 2.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Methylene chloride | 6/17/2010 | 0.07 | 0.07 | 2.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | o-Xylene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | o-Xylene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Styrene | 6/17/2010 | 0.06 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | Styrene | 6/17/2010 | 0.06 | 0.05 | 0.5 | J | PPBV |
| | XB2-0617 | | LB | J1876 | Tetrachloroethene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Tetrachloroethene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Toluene | 6/17/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Toluene | 6/17/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | trans-1,3-Dichloropropene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | trans-1,3-Dichloropropene | 6/17/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Trichloroethene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Trichloroethene | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Trichlorofluoromethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Trichlorofluoromethane | 6/17/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Trichlorotrifluoroethane | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Trichlorotrifluoroethane | 6/17/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1875 | Vinyl Chloride | 6/17/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0617 | | LB | J1876 | Vinyl Chloride | 6/17/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,1,1-Trichloroethane | 6/18/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,1,2,2-Tetrachloroethane | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,1,2-Trichloroethane | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,1-Dichloroethane | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,1-Dichloroethene | 6/18/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2,4-Trichlorobenzene | 6/18/2010 | 0.29 | 0.06 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2,4-Trimethylbenzene | 6/18/2010 | 0.07 | 0.05 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2-Dibromoethane | 6/18/2010 | 0.05 | 0.05 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 6/18/2010 | 0.12 | 0.07 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2-Dichlorobenzene | 6/18/2010 | 0.09 | 0.05 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2-Dichloroethane | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,2-Dichloropropane | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | 1,3,5-Trimethylbenzene | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | | | | | |
| | XB2-0618 | AIR | LB | J1875 | 1,3-Dichlorobenzene | 6/18/2010 | 0.08 | 0.05 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 1,4-Dichlorobenzene | 6/18/2010 | 0.11 | 0.05 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | 2-Butanone | 6/18/2010 | 0.02 | 0.02 | 1 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Acetone | 6/18/2010 | 0.39 | 0.23 | 1 | J | PPBV |
| | XB2-0618 | | LB | J1875 | Benzene | 6/18/2010 | 0.02 | 0.02 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Bromomethane | 6/18/2010 | 0.19 | 0.04 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | Carbon tetrachloride | 6/18/2010 | 0.03 | 0.03 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Chlorobenzene | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Chloroethane | 6/18/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Chloroform | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Chloromethane | 6/18/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | cis-1,2-Dichloroethene | 6/18/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | cis-1,3-Dichloropropene | 6/18/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Dichlorodifluoromethane | 6/18/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Ethylbenzene | 6/18/2010 | 0.06 | 0.06 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Hexachlorobutadiene | 6/18/2010 | 0.09 | 0.04 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | m,p-Xylene | 6/18/2010 | 0.15 | 0.15 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Methyl tert-butyl ether (MTBE) | 6/18/2010 | 0.09 | 0.09 | 1 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Methylene chloride | 6/18/2010 | 0.07 | 0.07 | 2.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | o-Xylene | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Styrene | 6/18/2010 | 0.06 | 0.05 | 0.5 | J | PPBV |
| | XB2-0618 | | LB | J1875 | Tetrachloroethene | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Toluene | 6/18/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | trans-1,3-Dichloropropene | 6/18/2010 | 0.04 | 0.04 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Trichloroethene | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Trichlorofluoromethane | 6/18/2010 | 0.08 | 0.08 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Trichlorotrifluoroethane | 6/18/2010 | 0.07 | 0.07 | 0.5 | U | PPBV |
| | XB2-0618 | | LB | J1875 | Vinyl Chloride | 6/18/2010 | 0.09 | 0.09 | 0.5 | U | PPBV |

## Table B-11. Summary of Method Blank Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | Blank ID | Matrix | Blank Type* | SDG | Analyte | Analysis Date | Result | MDL | RL | Flag | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

*** Blank Type**

LB = Method Blank
EB = Equipment Blank
TB = Trip Blank

Qualifier Description
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL).
J = The analyte was positively identified but the associated numerical value is below the reporting limit (RL).

# Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **A2720C** | | | | | | | |
| | BS1X0414 | AIR | J1574 | Carbon Dioxide | 92 | 80 | 120 |
| | BS1X0414 | | J1574 | Carbon Monoxide | 93 | 80 | 120 |
| | BS1X0414 | | J1574 | Methane | 92 | 80 | 120 |
| | BS1X0414 | | J1574 | Nitrogen | 105 | 80 | 120 |
| | BS1X0414 | | J1574 | Oxygen | 93 | 80 | 120 |
| | BS1X0522 | | J1876 | Carbon Dioxide | 101 | 80 | 120 |
| | BS1X0522 | | J1875 | Carbon Dioxide | 101 | 80 | 120 |
| | BS1X0522 | | J1875 | Carbon Monoxide | 100 | 80 | 120 |
| | BS1X0522 | | J1876 | Carbon Monoxide | 100 | 80 | 120 |
| | BS1X0522 | | J1876 | Methane | 100 | 80 | 120 |
| | BS1X0522 | | J1875 | Methane | 100 | 80 | 120 |
| | BS1X0522 | | J1876 | Nitrogen | 113 | 80 | 120 |
| | BS1X0522 | | J1875 | Nitrogen | 113 | 80 | 120 |
| | BS1X0522 | | J1876 | Oxygen | 100 | 80 | 120 |
| | BS1X0522 | | J1875 | Oxygen | 100 | 80 | 120 |
| **SW8015M** | | | | | | | |
| | BS1X0412 | AIR | J1574 | TPH-Gasoline | 96 | 70 | 130 |
| | BS1X0413 | | J1574 | TPH-Gasoline | 97 | 70 | 130 |
| | BS1X0524 | | J1876 | TPH-Gasoline | 95 | 70 | 130 |
| | BS1X0524 | | J1875 | TPH-Gasoline | 95 | 70 | 130 |
| **TO15** | | | | | | | |
| | BS1X-0420 | AIR | J1574 | 1,1,1-Trichloroethane | 86 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,1,2,2-Tetrachloroethane | 97 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,1,2-Trichloroethane | 94 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,1-Dichloroethane | 85 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,1-Dichloroethene | 84 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2,4-Trichlorobenzene | 89 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2,4-Trimethylbenzene | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2-dibromoethane | 93 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 100 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2-Dichlorobenzene | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2-Dichloroethane | 85 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,2-Dichloropropane | 86 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,3,5-Trimethylbenzene | 96 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,3-Dichlorobenzene | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | 1,4-Dichlorobenzene | 92 | 70 | 130 |
| | BS1X-0420 | | J1574 | 2-Butanone | 82 | 70 | 130 |
| | BS1X-0420 | | J1574 | Acetone | 80 | 70 | 130 |
| | BS1X-0420 | | J1574 | Benzene | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | Bromomethane | 105 | 70 | 130 |
| | BS1X-0420 | | J1574 | **Carbon Tetrachloride** | **67** | **70** | **130** |

## Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | |
| | BS1X-0420 | AIR | J1574 | Chlorobenzene | 92 | 70 | 130 |
| | BS1X-0420 | | J1574 | Chloroethane | 101 | 70 | 130 |
| | BS1X-0420 | | J1574 | Chloroform | 86 | 70 | 130 |
| | BS1X-0420 | | J1574 | Chloromethane | 98 | 70 | 130 |
| | BS1X-0420 | | J1574 | cis-1,2-Dichloroethene | 85 | 70 | 130 |
| | BS1X-0420 | | J1574 | cis-1,3-dichloropropene | 88 | 70 | 130 |
| | BS1X-0420 | | J1574 | Dichlorodifluoromethane | 101 | 70 | 130 |
| | BS1X-0420 | | J1574 | Ethylbenzene | 88 | 70 | 130 |
| | BS1X-0420 | | J1574 | Hexachlorobutadiene | 80 | 70 | 130 |
| | BS1X-0420 | | J1574 | m,p-Xylene | 88 | 70 | 130 |
| | BS1X-0420 | | J1574 | Methylene chloride | 75 | 70 | 130 |
| | BS1X-0420 | | J1574 | o-Xylene | 95 | 70 | 130 |
| | BS1X-0420 | | J1574 | Styrene | 105 | 70 | 130 |
| | BS1X-0420 | | J1574 | tert-Butyl methyl ether | 81 | 70 | 130 |
| | BS1X-0420 | | J1574 | Tetrachloroethene | 89 | 70 | 130 |
| | BS1X-0420 | | J1574 | Toluene | 98 | 70 | 130 |
| | BS1X-0420 | | J1574 | Trans-1,3-dichloropropene | 91 | 70 | 130 |
| | BS1X-0420 | | J1574 | Trichloroethene | 90 | 70 | 130 |
| | BS1X-0420 | | J1574 | Trichlorofluoromethane | 92 | 70 | 130 |
| | BS1X-0420 | | J1574 | Vinyl chloride | 107 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1,1-Trichloroethane | 97 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1,1-Trichloroethane | 97 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1,2,2-Tetrachloroethane | 100 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1,2,2-Tetrachloroethane | 100 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 84 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 84 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1,2-Trichloroethane | 88 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1,2-Trichloroethane | 88 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1-Dichloroethane | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1-Dichloroethane | 79 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,1-Dichloroethene | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,1-Dichloroethene | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2,4-Trichlorobenzene | 79 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2,4-Trichlorobenzene | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2,4-Trimethylbenzene | 86 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2,4-Trimethylbenzene | 86 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2-dibromoethane | 94 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2-dibromoethane | 94 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 75 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 75 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2-Dichlorobenzene | 83 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2-Dichlorobenzene | 83 | 70 | 130 |

## Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | |
| | BS1X0617 | AIR | J1875 | 1,2-Dichloroethane | 88 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2-Dichloroethane | 88 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,2-Dichloropropane | 80 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,2-Dichloropropane | 80 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,3,5-Trimethylbenzene | 87 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,3,5-Trimethylbenzene | 87 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,3-Dichlorobenzene | 84 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,3-Dichlorobenzene | 84 | 70 | 130 |
| | BS1X0617 | | J1875 | 1,4-Dichlorobenzene | 84 | 70 | 130 |
| | BS1X0617 | | J1876 | 1,4-Dichlorobenzene | 84 | 70 | 130 |
| | BS1X0617 | | J1875 | 2-Butanone | 80 | 70 | 130 |
| | BS1X0617 | | J1876 | 2-Butanone | 80 | 70 | 130 |
| | BS1X0617 | | J1875 | Acetone | 73 | 70 | 130 |
| | BS1X0617 | | J1876 | Acetone | 73 | 70 | 130 |
| | BS1X0617 | | J1876 | Benzene | 92 | 70 | 130 |
| | BS1X0617 | | J1875 | Benzene | 92 | 70 | 130 |
| | BS1X0617 | | J1876 | Bromomethane | 85 | 70 | 130 |
| | BS1X0617 | | J1875 | Bromomethane | 85 | 70 | 130 |
| | BS1X0617 | | J1876 | Carbon Tetrachloride | 101 | 70 | 130 |
| | BS1X0617 | | J1875 | Carbon Tetrachloride | 101 | 70 | 130 |
| | BS1X0617 | | J1876 | Chlorobenzene | 81 | 70 | 130 |
| | BS1X0617 | | J1875 | Chlorobenzene | 81 | 70 | 130 |
| | BS1X0617 | | J1875 | Chloroethane | 77 | 70 | 130 |
| | BS1X0617 | | J1876 | Chloroethane | 77 | 70 | 130 |
| | BS1X0617 | | J1876 | Chloroform | 85 | 70 | 130 |
| | BS1X0617 | | J1875 | Chloroform | 85 | 70 | 130 |
| | BS1X0617 | | J1876 | **Chloromethane** | **69** | **70** | **130** |
| | BS1X0617 | | J1875 | **Chloromethane** | **69** | **70** | **130** |
| | BS1X0617 | | J1875 | cis-1,2-Dichloroethene | 81 | 70 | 130 |
| | BS1X0617 | | J1876 | cis-1,2-Dichloroethene | 81 | 70 | 130 |
| | BS1X0617 | | J1875 | cis-1,3-dichloropropene | 97 | 70 | 130 |
| | BS1X0617 | | J1876 | cis-1,3-dichloropropene | 97 | 70 | 130 |
| | BS1X0617 | | J1876 | Dichlorodifluoromethane | 82 | 70 | 130 |
| | BS1X0617 | | J1875 | Dichlorodifluoromethane | 82 | 70 | 130 |
| | BS1X0617 | | J1876 | Ethylbenzene | 82 | 70 | 130 |
| | BS1X0617 | | J1875 | Ethylbenzene | 82 | 70 | 130 |
| | BS1X0617 | | J1876 | Hexachlorobutadiene | 83 | 70 | 130 |
| | BS1X0617 | | J1875 | Hexachlorobutadiene | 83 | 70 | 130 |
| | BS1X0617 | | J1875 | m,p-Xylene | 93 | 70 | 130 |
| | BS1X0617 | | J1876 | m,p-Xylene | 93 | 70 | 130 |
| | BS1X0617 | | J1875 | Methylene chloride | 90 | 70 | 130 |
| | BS1X0617 | | J1876 | Methylene chloride | 90 | 70 | 130 |

## Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | |
| | BS1X0617 | AIR | J1875 | o-Xylene | 84 | 70 | 130 |
| | BS1X0617 | | J1876 | o-Xylene | 84 | 70 | 130 |
| | BS1X0617 | | J1875 | Styrene | 85 | 70 | 130 |
| | BS1X0617 | | J1876 | Styrene | 85 | 70 | 130 |
| | BS1X0617 | | J1875 | tert-Butyl methyl ether | 85 | 70 | 130 |
| | BS1X0617 | | J1876 | tert-Butyl methyl ether | 85 | 70 | 130 |
| | BS1X0617 | | J1876 | Tetrachloroethene | 97 | 70 | 130 |
| | BS1X0617 | | J1875 | Tetrachloroethene | 97 | 70 | 130 |
| | BS1X0617 | | J1875 | Toluene | 82 | 70 | 130 |
| | BS1X0617 | | J1876 | Toluene | 82 | 70 | 130 |
| | BS1X0617 | | J1875 | Trans-1,3-dichloropropene | 107 | 70 | 130 |
| | BS1X0617 | | J1876 | Trans-1,3-dichloropropene | 107 | 70 | 130 |
| | BS1X0617 | | J1876 | Trichloroethene | 79 | 70 | 130 |
| | BS1X0617 | | J1875 | Trichloroethene | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | Trichlorofluoromethane | 94 | 70 | 130 |
| | BS1X0617 | | J1875 | Trichlorofluoromethane | 94 | 70 | 130 |
| | BS1X0617 | | J1875 | Vinyl chloride | 79 | 70 | 130 |
| | BS1X0617 | | J1876 | Vinyl chloride | 79 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1,1-Trichloroethane | 101 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1,2,2-Tetrachloroethane | 100 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 88 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1,2-Trichloroethane | 96 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1-Dichloroethane | 83 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,1-Dichloroethene | 84 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2,4-Trichlorobenzene | 72 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2,4-Trimethylbenzene | 79 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2-dibromoethane | 101 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 80 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2-Dichlorobenzene | 76 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2-Dichloroethane | 90 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,2-Dichloropropane | 87 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,3,5-Trimethylbenzene | 80 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,3-Dichlorobenzene | 77 | 70 | 130 |
| | BS1X0618 | | J1875 | 1,4-Dichlorobenzene | 77 | 70 | 130 |
| | BS1X0618 | | J1875 | 2-Butanone | 87 | 70 | 130 |
| | BS1X0618 | | J1875 | Acetone | 79 | 70 | 130 |
| | BS1X0618 | | J1875 | Benzene | 101 | 70 | 130 |
| | BS1X0618 | | J1875 | Bromomethane | 90 | 70 | 130 |
| | BS1X0618 | | J1875 | Carbon Tetrachloride | 115 | 70 | 130 |
| | BS1X0618 | | J1875 | Chlorobenzene | 74 | 70 | 130 |
| | BS1X0618 | | J1875 | Chloroethane | 82 | 70 | 130 |
| | BS1X0618 | | J1875 | Chloroform | 87 | 70 | 130 |

## Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | |
| | BS1X0618 | AIR | J1875 | Chloromethane | 74 | 70 | 130 |
| | BS1X0618 | | J1875 | cis-1,2-Dichloroethene | 84 | 70 | 130 |
| | BS1X0618 | | J1875 | cis-1,3-dichloropropene | 110 | 70 | 130 |
| | BS1X0618 | | J1875 | Dichlorodifluoromethane | 85 | 70 | 130 |
| | BS1X0618 | | J1875 | Ethylbenzene | 75 | 70 | 130 |
| | BS1X0618 | | J1875 | Hexachlorobutadiene | 74 | 70 | 130 |
| | BS1X0618 | | J1875 | m,p-Xylene | 84 | 70 | 130 |
| | BS1X0618 | | J1875 | Methylene chloride | 91 | 70 | 130 |
| | BS1X0618 | | J1875 | o-Xylene | 76 | 70 | 130 |
| | BS1X0618 | | J1875 | Styrene | 78 | 70 | 130 |
| | BS1X0618 | | J1875 | tert-Butyl methyl ether | 91 | 70 | 130 |
| | BS1X0618 | | J1875 | Tetrachloroethene | 104 | 70 | 130 |
| | BS1X0618 | | J1875 | Toluene | 88 | 70 | 130 |
| | BS1X0618 | | J1875 | Trans-1,3-dichloropropene | 125 | 70 | 130 |
| | BS1X0618 | | J1875 | Trichloroethene | 83 | 70 | 130 |
| | BS1X0618 | | J1875 | Trichlorofluoromethane | 101 | 70 | 130 |
| | BS1X0618 | | J1875 | **Vinyl chloride** | **67** | **70** | **130** |
| | BS4X-0421 | | J1574 | 1,1,1-Trichloroethane | 95 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,1,2,2-Tetrachloroethane | 101 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 98 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,1,2-Trichloroethane | 105 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,1-Dichloroethane | 91 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,1-Dichloroethene | 87 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2,4-Trichlorobenzene | 95 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2,4-Trimethylbenzene | 104 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2-dibromoethane | 104 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 107 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2-Dichlorobenzene | 98 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2-Dichloroethane | 94 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,2-Dichloropropane | 94 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,3,5-Trimethylbenzene | 105 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,3-Dichlorobenzene | 100 | 70 | 130 |
| | BS4X-0421 | | J1574 | 1,4-Dichlorobenzene | 103 | 70 | 130 |
| | BS4X-0421 | | J1574 | 2-Butanone | 94 | 70 | 130 |
| | BS4X-0421 | | J1574 | Acetone | 90 | 70 | 130 |
| | BS4X-0421 | | J1574 | Benzene | 101 | 70 | 130 |
| | BS4X-0421 | | J1574 | Bromomethane | 116 | 70 | 130 |
| | BS4X-0421 | | J1574 | Carbon Tetrachloride | 106 | 70 | 130 |
| | BS4X-0421 | | J1574 | Chlorobenzene | 102 | 70 | 130 |
| | BS4X-0421 | | J1574 | Chloroethane | 117 | 70 | 130 |
| | BS4X-0421 | | J1574 | Chloroform | 94 | 70 | 130 |
| | BS4X-0421 | | J1574 | Chloromethane | 101 | 70 | 130 |

## Table B-12. Summary of Laboratory Control Samples for Vapor Samples for the Bulk Fuels Facility Spill Area, April through June 2010

| Method | LabSample ID | Matrix | SDG | Analyte | % Recovery | Lower Control Limit | Upper Control Limit |
|---|---|---|---|---|---|---|---|
| **TO15** | | | | | | | |
| | BS4X-0421 | AIR | J1574 | cis-1,2-Dichloroethene | 91 | 70 | 130 |
| | BS4X-0421 | | J1574 | cis-1,3-dichloropropene | 98 | 70 | 130 |
| | BS4X-0421 | | J1574 | Dichlorodifluoromethane | 103 | 70 | 130 |
| | BS4X-0421 | | J1574 | Ethylbenzene | 96 | 70 | 130 |
| | BS4X-0421 | | J1574 | Hexachlorobutadiene | 89 | 70 | 130 |
| | BS4X-0421 | | J1574 | m,p-Xylene | 99 | 70 | 130 |
| | BS4X-0421 | | J1574 | Methylene chloride | 80 | 70 | 130 |
| | BS4X-0421 | | J1574 | o-Xylene | 113 | 70 | 130 |
| | BS4X-0421 | | J1574 | Styrene | 127 | 70 | 130 |
| | BS4X-0421 | | J1574 | tert-Butyl methyl ether | 88 | 70 | 130 |
| | BS4X-0421 | | J1574 | Tetrachloroethene | 96 | 70 | 130 |
| | BS4X-0421 | | J1574 | Toluene | 114 | 70 | 130 |
| | BS4X-0421 | | J1574 | Trans-1,3-dichloropropene | 104 | 70 | 130 |
| | BS4X-0421 | | J1574 | Trichloroethene | 83 | 70 | 130 |
| | BS4X-0421 | | J1574 | Trichlorofluoromethane | 106 | 70 | 130 |
| | BS4X-0421 | | J1574 | Vinyl chloride | 117 | 70 | 130 |

Bold formatting indicates recoveries below the lower control limit or above the upper control limit.

# APPENDIX C

## Reference Data (Page 1 of 2)

Please note the originally published numbering for figures has been retained.

| Reference | Date Range | Description |
|---|---|---|
| Table C-1 | All through Q2 2010 | Soil Vapor Monitoring Summary |
| Table C-2 | All through Q2 2010 | Groundwater Analytical Results Summary |
| Table C-3 | All through Q2 2010 | Boring and Well Survey Data |
| App. C-4 | All through Q2 2010 | EDB and Benzene Graphs in Selected Groundwater Wells |
| App. C-5 | All through Q2 2010 | BTEX Soil Vapor Graphs from SVE System Influent Samples |
| App. C-6 | All through Q2 2010 | Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs |
| Figure 3-2 | Q408 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-3 | Q408 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-4 | Q408 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |
| Figure 3-5 | Q408 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-6 | Q408 | Hydrocarbon Plume Beneath Former Offloading Rack |
| Figure 3-7 | Q109 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-8 | Q109 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-9 | Q109 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |
| Figure 3-10 | Q109 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-11 | Q109 | Hydrocarbon Plume Beneath Former Offloading Rack |
| Figure 3-2 | Q209 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-3 | Q209 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-4 | Q209 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |
| Figure 3-5 | Q209 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-6 | Q209 | Hydrocarbon Plume Beneath Former Offloading Rack |
| Figure 3-7 | Q309 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-8 | Q309 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-9 | Q309 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |

# APPENDIX C

## Reference Data (Concluded, Page 2 of 2)

| Reference | Date Range | Description |
|---|---|---|
| Figure 3-10 | Q309 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-11 | Q309 | Hydrocarbon Plume Beneath Former Offloading Rack |
| Figure 3-2 | Q409 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-3 | Q409 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-4 | Q409 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |
| Figure 3-5 | Q409 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-6 | Q409 | Hydrocarbon Plume Beneath Former Offloading Rack |
| Figure 3-7 | Q110 | Total Petroleum Hydrocarbons in Soil Vapor, 150 ft bgs |
| Figure 3-8 | Q110 | Total Petroleum Hydrocarbons in Soil Vapor, 250 ft bgs |
| Figure 3-9 | Q110 | Total Petroleum Hydrocarbons in Soil Vapor, 350 ft bgs |
| Figure 3-10 | Q110 | Total Petroleum Hydrocarbons in Soil Vapor, 450 ft bgs |
| Figure 3-11 | Q110 | Hydrocarbon Plume Beneath Former Offloading Rack |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| **Vapor Monitoring Wells** | | | | | | | |
| SVMW-01 | 50 - 52.5 | 7/23/04 | 0.42 | 0.01 | 10.14 | 7.46 | 262 |
| SVMW-01 | 50 - 52.5 | 2/3/05 | 0.35 | 0.01 | 10.34 | 7.94 | 163 |
| SVMW-01 | 50 - 52.5 | 3/31/05 | -0.12 | 0.01 | 10.70 | 7.38 | 193 |
| SVMW-01 | 50 - 52.5 | 8/11/05 | 0.28 | 0.01 | 9.34 | 7.47 | 250 |
| SVMW-01 | 50 - 52.5 | 11/21/05 | 0.08 | 0.01 | 9.46 | 8.30 | 12 |
| SVMW-01 | 50 - 52.5 | 2/24/06 | 0.08 | 0.01 | 6.88 | 12.08 | 66 |
| SVMW-01 | 50 - 52.5 | 4/11/06 | 0.42 | 0.01 | 10.90 | 7.98 | 158 |
| SVMW-01 | 50 - 52.5 | 8/9/06 | -0.18 | 0.01 | 11.22 | 7.32 | 27 |
| SVMW-01 | 50 - 52.5 | 8/22/06 | -0.23 | 0.01 | 11.18 | 7.52 | 34 |
| SVMW-01 | 50 - 52.5 | 9/21/06 | 0.06 | 0.01 | 11.40 | 7.30 | 4 |
| SVMW-01 | 50 - 52.5 | 10/24/06 | atm | 0.01 | 11.38 | 7.14 | 26 |
| SVMW-01 | 50 - 52.5 | 2/28/07 | 0.22 | 0.01 | 11.70 | 6.78 | 68 |
| SVMW-01 | 50 - 52.5 | 8/24/07 | 0.15 | 0.01 | 11.14 | 7.14 | 5 |
| SVMW-01 | 50 - 52.5 | 11/28/07 | 0.23 | 0.01 | 11.38 | 7.54 | 0 |
| SVMW-01 | 50 - 52.5 | 3/6/08 | 0.50 | 0.01 | 10.14 | 6.96 | 55 |
| SVMW-01 | 50 - 52.5 | 5/12/08 | 0.20 | 0.01 | 11.94 | 6.34 | 5 |
| SVMW-01 | 50 - 52.5 | 7/18/08 | -0.08 | 0.01 | 10.08 | 6.94 | 0 |
| SVMW-01 | 50 - 52.5 | 9/29/08 | 0.18 | 0.01 | 11.02 | 7.36 | 18 |
| SVMW-01 | 50 - 52.5 | 12/11/08 | 0.35 | 0.00 | 9.14 | 8.97 | 31 |
| SVMW-01 | 50 - 52.5 | 2/18/09 | atm | 0.00 | 7.56 | 11.06 | 151 |
| SVMW-01 | 50 - 52.5 | 5/11/09 | 0.58 | 0.00 | 8.18 | 9.16 | 52 |
| SVMW-01 | 50 - 52.5 | 8/14/09 | -0.08 | 0.00 | 9.40 | 8.48 | 27 |
| SVMW-01 | 50 - 52.5 | 11/11/09 | -0.13 | 0.00 | 9.44 | 8.93 | 36 |
| SVMW-01 | 50 - 52.5 | 2/18/10 | 0.22 | 0.00 | 9.76 | 8.15 | 442 |
| SVMW-01 | 50 - 52.5 | 5/13/10 | Well vault covered by equipment | | | | |
| SVMW-01 | 100 - 102.5 | 7/23/04 | 0.49 | 0.03 | 10.56 | 5.00 | 10,386 |
| SVMW-01 | 100 - 102.5 | 2/3/05 | 0.38 | 0.03 | 11.42 | 5.06 | 10,881 |
| SVMW-01 | 100 - 102.5 | 3/31/05 | -0.19 | 0.04 | 11.84 | 4.90 | 13,824 |
| SVMW-01 | 100 - 102.5 | 8/11/05 | 0.30 | 0.03 | 10.44 | 4.66 | 9,940 |
| SVMW-01 | 100 - 102.5 | 11/21/05 | atm | 0.03 | 11.10 | 5.28 | 8,460 |
| SVMW-01 | 100 - 102.5 | 2/24/06 | 0.08 | 0.01 | 8.58 | 8.20 | 6,820 |
| SVMW-01 | 100 - 102.5 | 4/11/06 | 0.57 | 0.04 | 11.96 | 6.14 | 12,600 |
| SVMW-01 | 100 - 102.5 | 8/9/06 | -0.21 | 0.05 | 13.02 | 4.40 | 11,952 |
| SVMW-01 | 100 - 102.5 | 8/22/06 | -0.30 | 0.06 | 13.28 | 4.46 | 11,349 |
| SVMW-01 | 100 - 102.5 | 9/21/06 | 0.06 | 0.05 | 13.36 | 4.42 | 11,250 |
| SVMW-01 | 100 - 102.5 | 10/24/06 | -0.01 | 0.06 | 13.40 | 4.30 | 13,437 |
| SVMW-01 | 100 - 102.5 | 2/28/07 | 0.24 | 0.06 | 13.70 | 4.22 | 12,078 |
| SVMW-01 | 100 - 102.5 | 8/24/07 | 0.16 | 0.05 | 13.48 | 4.02 | 11,133 |
| SVMW-01 | 100 - 102.5 | 11/28/07 | 0.27 | 0.05 | 13.94 | 4.14 | 10,827 |
| SVMW-01 | 100 - 102.5 | 3/6/08 | 0.61 | 0.03 | 12.06 | 3.80 | 11,808 |
| SVMW-01 | 100 - 102.5 | 5/12/08 | 0.24 | 0.03 | 14.28 | 3.46 | 11,277 |
| SVMW-01 | 100 - 102.5 | 7/18/08 | -0.11 | 0.03 | 12.22 | 3.64 | 60 |
| SVMW-01 | 100 - 102.5 | 9/29/08 | 0.21 | 0.04 | 14.22 | 3.26 | 10,008 |
| SVMW-01 | 100 - 102.5 | 12/11/08 | 0.48 | 0.00 | 12.62 | 4.63 | 8,980 |
| SVMW-01 | 100 - 102.5 | 2/18/09 | atm | 0.05 | 10.84 | 7.34 | 5,560 |
| SVMW-01 | 100 - 102.5 | 5/11/09 | 0.72 | 0.01 | 11.52 | 4.37 | 8,100 |
| SVMW-01 | 100 - 102.5 | 8/14/09 | -0.12 | 0.00 | 12.30 | 4.77 | 6,800 |
| SVMW-01 | 100 - 102.5 | 11/11/09 | -0.18 | 0.01 | 12.98 | 4.40 | 6,730 |
| SVMW-01 | 100 - 102.5 | 2/18/10 | 0.24 | 0.00 | 13.26 | 4.06 | 6,320 |
| SVMW-01 | 100 - 102.5 | 5/13/10 | Well vault covered by equipment | | | | |
| SVMW-01 | 250.7 - 253.2 | 7/23/04 | -0.3 | 0.04 | 2.76 | 11.76 | 14,724 |
| SVMW-01 | 250.7 - 253.2 | 2/3/05 | -1.9 | 0.03 | 2.84 | 3.58 | 13,680 |
| SVMW-01 | 250.7 - 253.2 | 3/31/05 | -2.1 | 0.02 | 2.98 | 12.56 | 15,930 |
| SVMW-01 | 250.7 - 253.2 | 8/11/05 | 0.34 | 0.04 | 2.90 | 12.08 | 12,645 |
| SVMW-01 | 250.7 - 253.2 | 11/21/05 | -1.6 | 0.00 | 0.48 | 21.14 | 345 |
| SVMW-01 | 250.7 - 253.2 | 2/24/06 | -1.9 | 0.01 | 2.62 | 15.14 | 6,230 |
| SVMW-01 | 250.7 - 253.2 | 4/11/06 | 1.7 | 0.01 | 2.82 | 14.62 | 6,600 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-01 | 250.7 - 253.2 | 8/9/06 | -2.0 | 0.02 | 2.90 | 15.42 | 5,440 |
| SVMW-01 | 250.7 - 253.2 | 8/22/06 | -1.7 | 0.02 | 2.98 | 15.52 | 5,380 |
| SVMW-01 | 250.7 - 253.2 | 9/21/06 | 0.39 | 0.01 | 3.00 | 15.66 | 4,900 |
| SVMW-01 | 250.7 - 253.2 | 10/24/06 | -0.41 | 0.02 | 2.96 | 15.48 | 4,650 |
| SVMW-01 | 250.7 - 253.2 | 2/28/07 | 0.94 | 0.01 | 2.90 | 16.28 | 3,450 |
| SVMW-01 | 250.7 - 253.2 | 8/24/07 | 0.32 | 0.01 | 2.64 | 16.76 | 1,976 |
| SVMW-01 | 250.7 - 253.2 | 11/28/07 | -1.4 | 0.01 | 2.64 | 17.38 | 1,250 |
| SVMW-01 | 250.7 - 253.2 | 3/6/08 | 2.70 | 0.01 | 2.38 | 16.84 | 1,100 |
| SVMW-01 | 250.7 - 253.2 | 5/12/08 | 0.85 | 0.00 | 2.52 | 16.34 | 1,126 |
| SVMW-01 | 250.7 - 253.2 | 7/18/08 | -0.69 | 0.01 | 2.20 | 17.00 | 910 |
| SVMW-01 | 250.7 - 253.2 | 9/29/08 | -0.91 | 0.01 | 2.44 | 16.98 | 806 |
| SVMW-01 | 250.7 - 253.2 | 12/11/08 | 4.40 | 0.00 | 0.88 | 18.86 | 2,510 |
| SVMW-01 | 250.7 - 253.2 | 2/18/09 | -0.73 | 0.00 | 1.72 | 19.52 | 294 |
| SVMW-01 | 250.7 - 253.2 | 5/11/09 | 0.37 | 0.00 | 1.66 | 19.02 | 366 |
| SVMW-01 | 250.7 - 253.2 | 8/14/09 | -0.33 | 0.00 | 1.96 | 18.42 | 289 |
| SVMW-01 | 250.7 - 253.2 | 11/11/09 | -2.3 | 0.00 | 1.76 | 19.10 | 332 |
| SVMW-01 | 250.7 - 253.2 | 2/18/10 | 0.88 | 0.00 | 1.80 | 18.58 | 630 |
| SVMW-01 | 250.7 - 253.2 | 5/13/10 | Well vault covered by equipment | | | | |
| SVMW-01 | 308.5 - 310 | 7/23/04 | -0.29 | 0.03 | 0.76 | 15.54 | 16,785 |
| SVMW-01 | 308.5 - 310 | 2/3/05 | -2.2 | 0.02 | 0.88 | 15.98 | 12,870 |
| SVMW-01 | 308.5 - 310 | 3/31/05 | -2.0 | 0.01 | 0.92 | 15.86 | 12,600 |
| SVMW-01 | 308.5 - 310 | 8/11/05 | 0.37 | 0.01 | 0.64 | 16.80 | 6,910 |
| SVMW-01 | 308.5 - 310 | 11/21/05 | -1.8 | 0.00 | 0.04 | 20.70 | 33 |
| SVMW-01 | 308.5 - 310 | 2/24/06 | -1.9 | 0.01 | 0.82 | 17.36 | 8,580 |
| SVMW-01 | 308.5 - 310 | 4/11/06 | 1.7 | 0.02 | 1.02 | 16.16 | 11,520 |
| SVMW-01 | 308.5 - 310 | 8/9/06 | -2.1 | 0.02 | 1.10 | 17.04 | 9,430 |
| SVMW-01 | 308.5 - 310 | 8/22/06 | -1.8 | 0.03 | 1.14 | 17.22 | 9,530 |
| SVMW-01 | 308.5 - 310 | 9/21/06 | 0.35 | 0.03 | 1.18 | 17.28 | 9,890 |
| SVMW-01 | 308.5 - 310 | 10/24/06 | -0.54 | 0.02 | 1.18 | 17.04 | 9,180 |
| SVMW-01 | 308.5 - 310 | 2/28/07 | 1.2 | 0.02 | 1.18 | 17.48 | 8,750 |
| SVMW-01 | 308.5 - 310 | 8/24/07 | 0.36 | 0.02 | 1.16 | 8.22 | 6,410 |
| SVMW-01 | 308.5 - 310 | 12/11/08 | 4.50 | 0.00 | 1.98 | 18.03 | 497 |
| SVMW-01 | 308.5 - 310 | 2/18/09 | -0.79 | 0.00 | 0.98 | 18.51 | 2,360 |
| SVMW-01 | 308.5 - 311 | 11/28/07 | -1.4 | 0.01 | 1.18 | 17.92 | 5,800 |
| SVMW-01 | 308.5 - 311 | 3/6/08 | 2.80 | 0.01 | 1.06 | 17.46 | 4,850 |
| SVMW-01 | 308.5 - 311 | 5/12/08 | 0.82 | 0.01 | 1.16 | 16.92 | 5,280 |
| SVMW-01 | 308.5 - 311 | 7/18/08 | -0.66 | 0.01 | 1.00 | 17.60 | 4,260 |
| SVMW-01 | 308.5 - 311 | 9/29/08 | -1.10 | 0.01 | 0.98 | 18.00 | 3,300 |
| SVMW-01 | 308.5 - 311 | 5/11/09 | 0.24 | 0.00 | 7.90 | 9.05 | 80 |
| SVMW-01 | 308.5 - 311 | 8/14/09 | -0.46 | 0.00 | 0.94 | 18.97 | 1,651 |
| SVMW-01 | 308.5 - 311 | 11/11/09 | -2.9 | 0.00 | 0.92 | 19.29 | 1,235 |
| SVMW-01 | 308.5 - 311 | 2/18/10 | 0.86 | 0.00 | 1.04 | 18.58 | 1,473 |
| SVMW-01 | 308.5 - 310 | 5/13/10 | Well vault covered by equipment | | | | |
| SVMW-02 | 50 - 52.5 | 2/19/09 | -0.16 | 0.00 | 8.38 | 10.23 | 670 |
| SVMW-02 | 50 - 52.5 | 2/3/05 | 0.22 | 0.01 | 9.84 | 8.40 | 2,310 |
| SVMW-02 | 50 - 52.5 | 4/1/05 | atm | 0.01 | 10.08 | 8.78 | 1,669 |
| SVMW-02 | 50 - 52.5 | 8/11/05 | 0.25 | 0.01 | 9.58 | 8.48 | 2,310 |
| SVMW-02 | 50 - 52.5 | 11/21/05 | 0.29 | 0.01 | 6.34 | 12.30 | 921 |
| SVMW-02 | 50 - 52.5 | 2/23/06 | -0.1 | 0.01 | 8.98 | 9.12 | 2,160 |
| SVMW-02 | 50 - 52.5 | 4/11/06 | 0.30 | 0.01 | 8.26 | 11.26 | 1,833 |
| SVMW-02 | 50 - 52.5 | 8/10/06 | -0.13 | 0.01 | 10.70 | 8.50 | 1,904 |
| SVMW-02 | 50 - 52.5 | 8/21/06 | -0.22 | 0.01 | 10.44 | 8.42 | 1,923 |
| SVMW-02 | 50 - 52.5 | 9/6/06 | 0.10 | 0.01 | 10.72 | 8.30 | 2,260 |
| SVMW-02 | 50 - 52.5 | 10/24/06 | 0.02 | 0.01 | 10.88 | 8.20 | 2,320 |
| SVMW-02 | 50 - 52.5 | 2/28/07 | 0.01 | 0.01 | 11.22 | 8.00 | 2,920 |
| SVMW-02 | 50 - 52.5 | 8/24/07 | atm | 0.01 | 10.42 | 5.44 | 1,466 |
| SVMW-02 | 50 - 52.5 | 11/28/07 | 0.04 | 0.01 | 10.78 | 8.58 | 1,345 |
| SVMW-02 | 50 - 52.5 | 3/6/08 | -- | 0.01 | 9.50 | 8.28 | 1,347 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-02 | 50 - 52.5 | 7/18/08 | -0.01 | 0.01 | 9.58 | 8.26 | 881 |
| SVMW-02 | 50 - 52.5 | 9/29/08 | 0.04 | 0.01 | 10.58 | 8.52 | 878 |
| SVMW-02 | 50 - 52.5 | 12/11/08 | 0.35 | 0.00 | 8.76 | 9.73 | 745 |
| SVMW-02 | 50 - 52.5 | 5/13/09 | 0.04 | 0.00 | 7.96 | 10.63 | 520 |
| SVMW-02 | 50 - 52.5 | 8/18/09 | 0.36 | 0.00 | 8.60 | 10.14 | 482 |
| SVMW-02 | 50 - 52.5 | 11/10/09 | 0.04 | 0.00 | 8.72 | 10.53 | 311 |
| SVMW-02 | 50 - 52.5 | 2/16/10 | 0.18 | 0.00 | 8.90 | 10.05 | 973 |
| SVMW-02 | 50 - 52.5 | 5/13/10 | 0.05 | 0.00 | 5.22 | 14.28 | 621 |
| SVMW-02 | 97 - 99.5 | 2/3/05 | bad port | 0.06 | 11.42 | 5.20 | 22,410 |
| SVMW-02 | 97 - 99.5 | 4/1/05 | atm | 0.05 | 11.62 | 5.82 | 19,980 |
| SVMW-02 | 97 - 99.5 | 8/11/05 | -0.17 | 0.06 | 11.42 | 5.54 | 20,520 |
| SVMW-02 | 97 - 99.5 | 11/21/05 | 0.44 | 0.04 | 10.94 | 5.88 | 17,955 |
| SVMW-02 | 97 - 99.5 | 2/23/06 | -0.17 | 0.04 | 10.24 | 6.74 | 24,390 |
| SVMW-02 | 97 - 99.5 | 4/11/06 | 0.40 | 0.05 | 7.22 | 12.82 | 23,400 |
| SVMW-02 | 97 - 99.5 | 8/10/06 | -0.2 | 0.12 | 13.10 | 5.32 | 22,680 |
| SVMW-02 | 97 - 99.5 | 8/21/06 | -0.35 | 0.13 | 13.04 | 5.30 | 23,200 |
| SVMW-02 | 97 - 99.5 | 9/20/06 | 0.16 | 0.11 | 13.02 | 5.36 | 19,980 |
| SVMW-02 | 97 - 99.5 | 10/24/06 | 0.04 | 0.13 | 13.20 | 5.38 | 24,570 |
| SVMW-02 | 97 - 99.5 | 2/28/07 | 0.04 | 0.12 | 12.98 | 5.74 | 20,700 |
| SVMW-02 | 97 - 99.5 | 8/24/07 | -0.01 | 0.12 | 12.90 | 13.66 | 19,530 |
| SVMW-02 | 97 - 99.5 | 11/28/07 | 0.04 | 0.11 | 13.10 | 5.66 | 19,440 |
| SVMW-02 | 97 - 99.5 | 3/6/08 | -- | 0.03 | 10.40 | 5.92 | 18,990 |
| SVMW-02 | 97 - 99.5 | 7/18/08 | -0.04 | 0.05 | 11.18 | 5.46 | 14,958 |
| SVMW-02 | 97 - 99.5 | 9/29/08 | 0.09 | 0.11 | 13.20 | 5.32 | 2,100 |
| SVMW-02 | 97 - 99.5 | 12/11/08 | 0.56 | 0.01 | 11.38 | 7.25 | 16,137 |
| SVMW-02 | 97 - 99.5 | 2/19/09 | -0.27 | 0.00 | 12.16 | 6.52 | 13,950 |
| SVMW-02 | 97 - 99.5 | 5/13/09 | 0.04 | 0.00 | 9.24 | 9.83 | 13,770 |
| SVMW-02 | 97 - 99.5 | 8/18/09 | 0.59 | 0.01 | 11.76 | 6.82 | 15,642 |
| SVMW-02 | 97 - 99.5 | 11/10/09 | 0.06 | 0.01 | 12.26 | 6.63 | 16,515 |
| SVMW-02 | 97 - 99.5 | 2/16/10 | 0.20 | 0.00 | 11.12 | 7.55 | 9,740 |
| SVMW-02 | 97 - 99.5 | 5/13/10 | 0.09 | 0.00 | 7.48 | 11.97 | 8,590 |
| SVMW-02 | 150 - 152.5 | 2/3/05 | -1.4 | 0.03 | 3.82 | 13.30 | 10,980 |
| SVMW-02 | 150 - 152.5 | 4/1/05 | -5.6 | 0.03 | 3.32 | 14.18 | 11,952 |
| SVMW-02 | 150 - 152.5 | 8/11/05 | -0.11 | 0.03 | 1.56 | 11.92 | 12,645 |
| SVMW-02 | 150 - 152.5 | 11/21/05 | -1.2 | 0.02 | 3.32 | 12.76 | 9,710 |
| SVMW-02 | 150 - 152.5 | 2/23/06 | -2.0 | 0.00 | 0.26 | 21.46 | 403 |
| SVMW-02 | 150 - 152.5 | 4/11/06 | 0.79 | 0.02 | 1.14 | 16.54 | 6,570 |
| SVMW-02 | 150 - 152.5 | 8/10/06 | -2.0 | 0.03 | 1.64 | 13.70 | 10,260 |
| SVMW-02 | 150 - 152.5 | 8/21/06 | -1.5 | 0.02 | 1.46 | 14.24 | 8,270 |
| SVMW-02 | 150 - 152.5 | 9/20/06 | 0.45 | 0.04 | 1.76 | 13.18 | 9,828 |
| SVMW-02 | 150 - 152.5 | 10/24/06 | -0.42 | 0.03 | 1.72 | 13.40 | 8,325 |
| SVMW-02 | 150 - 152.5 | 2/28/07 | 3.8 | 0.03 | 1.78 | 13.44 | 9,280 |
| SVMW-02 | 150 - 152.5 | 8/24/07 | 0.40 | 0.03 | 1.74 | 6.58 | 9,200 |
| SVMW-02 | 150 - 152.5 | 11/28/07 | -0.9 | 0.01 | 1.96 | 15.78 | 5,980 |
| SVMW-02 | 150 - 152.5 | 3/6/08 | -- | 0.01 | 1.52 | 14.94 | 4,390 |
| SVMW-02 | 150 - 152.5 | 7/18/08 | -0.15 | 0.01 | 1.56 | 14.54 | 5,960 |
| SVMW-02 | 150 - 152.5 | 9/29/08 | -0.98 | 0.01 | 1.28 | 16.16 | 3,950 |
| SVMW-02 | 150 - 152.5 | 12/11/08 | 3.90 | 0.00 | 1.58 | 15.75 | 4,520 |
| SVMW-02 | 150 - 152.5 | 2/19/09 | -4.00 | 0.00 | 1.00 | 17.21 | 2,050 |
| SVMW-02 | 150 - 152.5 | 5/13/09 | 0.07 | 0.00 | 1.64 | 16.11 | 4,220 |
| SVMW-02 | 150 - 152.5 | 8/18/09 | 0.68 | 0.00 | 1.98 | 15.10 | 4,770 |
| SVMW-02 | 150 - 152.5 | 11/10/09 | -2.3 | 0.00 | 1.30 | 16.81 | 2,240 |
| SVMW-02 | 150 - 152.5 | 2/16/10 | -0.68 | 0.00 | 1.80 | 15.62 | 2,230 |
| SVMW-02 | 150 - 152.5 | 5/13/10 | -1.7 | 0.00 | 1.10 | 18.03 | 1,966 |
| SVMW-03 | 50 - 52.5 | 2/3/05 | 0.13 | 0.01 | 11.82 | 6.86 | 40 |
| SVMW-03 | 50 - 52.5 | 4/1/05 | -0.1 | 0.01 | 11.58 | 7.60 | 233 |
| SVMW-03 | 50 - 52.5 | 8/11/05 | 0.38 | 0.01 | 10.88 | 6.40 | 124 |
| SVMW-03 | 50 - 52.5 | 11/21/05 | atm | 0.00 | 10.30 | 7.82 | 19 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-03 | 50 - 52.5 | 2/24/06 | 0.04 | 0.00 | 10.14 | 7.72 | 31 |
| SVMW-03 | 50 - 52.5 | 4/11/06 | 0.41 | 0.01 | 10.62 | 8.58 | 216 |
| SVMW-03 | 50 - 52.5 | 8/9/06 | -0.20 | 0.01 | 11.92 | 7.12 | 14 |
| SVMW-03 | 50 - 52.5 | 8/21/06 | -0.27 | 0.00 | 3.68 | 15.88 | 31 |
| SVMW-03 | 50 - 52.5 | 9/20/06 | 0.09 | 0.01 | 11.78 | 7.12 | 8 |
| SVMW-03 | 50 - 52.5 | 10/24/06 | -0.02 | 0.00 | 11.92 | 7.06 | 6 |
| SVMW-03 | 50 - 52.5 | 2/28/07 | 0.16 | 0.01 | 12.46 | 6.12 | 36 |
| SVMW-03 | 50 - 52.5 | 8/24/07 | 0.10 | 0.01 | 11.52 | 6.25 | 14 |
| SVMW-03 | 50 - 52.5 | 11/28/07 | 0.22 | 0.01 | 11.44 | 7.44 | 75 |
| SVMW-03 | 50 - 52.5 | 3/6/08 | -- | 0.01 | 10.22 | 6.72 | 93 |
| SVMW-03 | 50 - 52.5 | 5/12/08 | 0.10 | 0.00 | 11.94 | 6.16 | 0 |
| SVMW-03 | 50 - 52.5 | 7/17/08 | -0.06 | 0.00 | 9.62 | 7.10 | 0 |
| SVMW-03 | 50 - 52.5 | 9/29/08 | 1.20 | 0.01 | 11.28 | 7.46 | 76 |
| SVMW-03 | 50 - 52.5 | 12/11/08 | 0.23 | 0.00 | 8.96 | 9.76 | 48 |
| SVMW-03 | 50 - 52.5 | 2/18/09 | -0.18 | 0.00 | 6.66 | 11.86 | 2,210 |
| SVMW-03 | 50 - 52.5 | 5/12/09 | 0.13 | 0.00 | 8.04 | 10.07 | 105 |
| SVMW-03 | 50 - 52.5 | 8/14/09 | -0.02 | 0.00 | 1.12 | 20.09 | 255 |
| SVMW-03 | 50 - 52.5 | 11/11/09 | -0.04 | 0.00 | 9.00 | 11.20 | 316 |
| SVMW-03 | 50 - 52.5 | 2/16/10 | 0.18 | 0.00 | 8.96 | 9.25 | 552 |
| SVMW-03 | 50 - 52.5 | 5/13/10 | 0.06 | 0.00 | 5.72 | 15.76 | 427 |
| SVMW-03 | 100 - 102.5 | 7/26/04 | 0.78 | 0.02 | 12.00 | 0.54 | 33,120 |
| SVMW-03 | 100 - 102.5 | 2/3/05 | 0.15 | 0.03 | 12.96 | 0.50 | 48,510 |
| SVMW-03 | 100 - 102.5 | 4/1/05 | atm | 0.04 | 12.62 | 1.58 | 36,000 |
| SVMW-03 | 100 - 102.5 | 8/11/05 | 0.51 | 0.04 | 12.52 | 0.30 | 35,550 |
| SVMW-03 | 100 - 102.5 | 11/21/05 | atm | 0.02 | 12.40 | 1.20 | 29,250 |
| SVMW-03 | 100 - 102.5 | 2/24/06 | 0.04 | 0.03 | 12.00 | 1.94 | 30,420 |
| SVMW-03 | 100 - 102.5 | 4/11/06 | 0.61 | 0.14 | 14.68 | 1.64 | 42,750 |
| SVMW-03 | 100 - 102.5 | 8/9/06 | -0.22 | 0.17 | 15.58 | 0.12 | 37,980 |
| SVMW-03 | 100 - 102.5 | 8/21/06 | -0.34 | 0.18 | 15.20 | 0.64 | 37,260 |
| SVMW-03 | 100 - 102.5 | 9/20/06 | 0.03 | 0.15 | 15.92 | 0.14 | 28,170 |
| SVMW-03 | 100 - 102.5 | 10/24/06 | -0.02 | 0.16 | 16.16 | 0.00 | 36,900 |
| SVMW-03 | 100 - 102.5 | 2/28/07 | 0.06 | 0.15 | 16.08 | 0.24 | 35,820 |
| SVMW-03 | 100 - 102.5 | 8/24/07 | 0.14 | 0.16 | 15.34 | 0.24 | 34,470 |
| SVMW-03 | 100 - 102.5 | 11/28/07 | 0.37 | 0.14 | 14.10 | 2.62 | 31,860 |
| SVMW-03 | 100 - 102.5 | 3/6/08 | -- | 0.06 | 13.10 | 0.00 | 49,590 |
| SVMW-03 | 100 - 102.5 | 5/12/08 | 0.08 | 0.16 | 16.08 | 0.00 | 24,210 |
| SVMW-03 | 100 - 102.5 | 7/17/08 | -0.08 | 0.07 | 12.46 | 0.30 | 27,630 |
| SVMW-03 | 100 - 102.5 | 9/29/08 | 1.20 | 0.15 | 14.28 | 1.82 | 23,940 |
| SVMW-03 | 100 - 102.5 | 12/11/08 | 0.60 | 0.02 | 10.72 | 6.83 | 15,516 |
| SVMW-03 | 100 - 102.5 | 2/18/09 | -0.15 | 0.00 | 12.36 | 4.82 | 24,210 |
| SVMW-03 | 100 - 102.5 | 5/12/09 | 0.54 | 0.01 | 13.22 | 4.18 | 36,000 |
| SVMW-03 | 100 - 102.5 | 8/14/09 | -0.74 | 0.03 | 3.96 | 15.05 | 19,890 |
| SVMW-03 | 100 - 102.5 | 11/11/09 | -0.04 | 0.02 | 10.96 | 7.61 | 23,040 |
| SVMW-03 | 100 - 102.5 | 2/16/10 | 0.26 | 0.00 | 14.26 | 2.16 | 27,900 |
| SVMW-03 | 100 - 102.5 | 5/13/10 | -0.14 | 0.01 | 7.80 | 10.80 | 27,900 |
| SVMW-03 | 250 - 252.5 | 7/26/04 | -0.7 | 0.02 | 5.38 | 3.78 | 24,840 |
| SVMW-03 | 250 - 252.5 | 2/3/05 | -1.9 | 0.03 | 7.10 | 2.52 | 54,540 |
| SVMW-03 | 250 - 252.5 | 4/1/05 | -5.6 | 0.04 | 6.56 | 4.78 | 29,880 |
| SVMW-03 | 250 - 252.5 | 8/11/05 | 0.62 | 0.05 | 6.38 | 21.80 | 28,890 |
| SVMW-03 | 250 - 252.5 | 11/21/05 | -2.0 | 0.03 | 5.42 | 5.06 | 15,930 |
| SVMW-03 | 250 - 252.5 | 2/24/06 | -2.0 | 0.03 | 4.34 | 7.90 | 11,529 |
| SVMW-03 | 250 - 252.5 | 4/11/06 | 1.3 | 0.09 | 5.48 | 7.04 | 23,220 |
| SVMW-03 | 250 - 252.5 | 8/9/06 | -2.2 | 0.13 | 7.40 | 4.22 | 25,020 |
| SVMW-03 | 250 - 252.5 | 8/21/06 | -1.7 | 0.12 | 7.14 | 4.74 | 23,310 |
| SVMW-03 | 250 - 252.5 | 9/20/06 | 0.16 | 0.11 | 7.04 | 5.00 | 21,870 |
| SVMW-03 | 250 - 252.5 | 10/24/06 | -0.50 | 0.11 | 7.08 | 5.26 | 21,690 |
| SVMW-03 | 250 - 252.5 | 2/28/07 | 0.6 | 0.06 | 5.86 | 7.50 | 13,599 |
| SVMW-03 | 250 - 252.5 | 8/24/07 | 0.04 | 0.08 | 6.18 | 6.68 | 16,920 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-03 | 250 - 252.5 | 11/28/07 | -1.4 | 0.00 | 0.24 | 20.82 | 167 |
| SVMW-03 | 250 - 252.5 | 3/6/08 | -- | 0.05 | 6.08 | 6.70 | 21,960 |
| SVMW-03 | 250 - 252.5 | 5/12/08 | 0.65 | 0.04 | 5.60 | 8.08 | 12,726 |
| SVMW-03 | 250 - 252.5 | 7/17/08 | -0.82 | 0.03 | 4.90 | 7.60 | 10,026 |
| SVMW-03 | 250 - 252.5 | 9/29/08 | -0.98 | 0.08 | 8.60 | 4.48 | 16,146 |
| SVMW-03 | 250 - 252.5 | 12/11/08 | 4.20 | 0.00 | 5.08 | 10.31 | 6,050 |
| SVMW-03 | 250 - 252.5 | 2/18/09 | -1.20 | 0.00 | 3.96 | 11.54 | 4,600 |
| SVMW-03 | 250 - 252.5 | 5/12/09 | 0.69 | 0.00 | 3.54 | 12.31 | 4,620 |
| SVMW-03 | 250 - 252.5 | 8/14/09 | -0.42 | 0.00 | 4.30 | 11.63 | 7,630 |
| SVMW-03 | 250 - 252.5 | 11/11/09 | -2.5 | 0.00 | 3.50 | 13.98 | 3,910 |
| SVMW-03 | 250 - 252.5 | 2/16/10 | -0.58 | 0.00 | 4.36 | 10.70 | 7,610 |
| SVMW-03 | 250 - 252.5 | 5/13/10 | -2.0 | 0.00 | 1.98 | 16.39 | 3,130 |
| SVMW-03 | 300 - 302.5 | 2/3/05 | -1.4 | 0.03 | 0.46 | 13.44 | 28,710 |
| SVMW-03 | 300 - 302.5 | 4/1/05 | -6.2 | 0.00 | 0.14 | 22.54 | 341 |
| SVMW-03 | 300 - 302.5 | 8/11/05 | 0.58 | 0.05 | 6.40 | 13.70 | 22,410 |
| SVMW-03 | 300 - 302.5 | 11/21/05 | -2.1 | 0.00 | 0.12 | 19.16 | 1,053 |
| SVMW-03 | 300 - 302.5 | 2/24/06 | -2.0 | 0.00 | 0.24 | 20.04 | 650 |
| SVMW-03 | 300 - 302.5 | 4/11/06 | 0.94 | 0.10 | 1.12 | 14.68 | 25,110 |
| SVMW-03 | 300 - 302.5 | 8/9/06 | -2.3 | 0.15 | 1.36 | 13.06 | 31,950 |
| SVMW-03 | 300 - 302.5 | 8/21/06 | -1.9 | 0.16 | 1.40 | 13.12 | 32,310 |
| SVMW-03 | 300 - 302.5 | 9/20/06 | 0.23 | 0.17 | 1.42 | 12.74 | 32,400 |
| SVMW-03 | 300 - 302.5 | 10/24/06 | -0.69 | 0.16 | 1.48 | 12.50 | 36,000 |
| SVMW-03 | 300 - 302.5 | 2/28/07 | 1.05 | 0.14 | 1.74 | 11.98 | 31,140 |
| SVMW-03 | 300 - 302.5 | 8/24/07 | 0.09 | 0.16 | 1.76 | 11.08 | 33,930 |
| SVMW-03 | 300 - 302.5 | 11/28/07 | -1.7 | 0.14 | 2.08 | 11.26 | 37,350 |
| SVMW-03 | 300 - 302.5 | 3/6/08 | -- | 0.05 | 1.42 | 11.40 | 33,390 |
| SVMW-03 | 300 - 302.5 | 5/12/08 | 0.56 | 0.16 | 2.14 | 10.96 | 29,520 |
| SVMW-03 | 300 - 302.5 | 7/17/08 | -0.93 | 0.06 | 1.66 | 11.06 | 30,420 |
| SVMW-03 | 300 - 302.5 | 9/29/08 | -1.10 | 0.16 | 2.50 | 11.58 | 25,740 |
| SVMW-03 | 300 - 302.5 | 12/11/08 | 4.00 | 0.01 | 2.88 | 12.90 | 29,970 |
| SVMW-03 | 300 - 302.5 | 2/18/09 | -1.50 | 0.00 | 3.78 | 10.55 | 25,560 |
| SVMW-03 | 300 - 302.5 | 5/12/09 | 0.57 | 0.01 | 3.88 | 10.88 | 48,690 |
| SVMW-03 | 300 - 302.5 | 8/14/09 | 0.04 | 0.02 | 12.72 | 4.47 | 23,580 |
| SVMW-03 | 300 - 302.5 | 11/11/09 | -3.0 | 0.03 | 3.44 | 17.37 | 21,420 |
| SVMW-03 | 300 - 302.5 | 2/16/10 | -0.76 | 0.00 | 2.68 | 16.07 | 18,450 |
| SVMW-03 | 300 - 302.5 | 5/13/10 | -1.8 | 0.00 | 1.54 | 18.41 | 8,190 |
| SVMW-04 | 50 - 52.5 | 7/26/04 | 0.39 | 0.01 | 4.12 | 7.68 | 4,270 |
| SVMW-04 | 50 - 52.5 | 2/3/05 | 0.38 | 0.01 | 6.12 | 5.62 | 4,130 |
| SVMW-04 | 50 - 52.5 | 3/31/05 | atm | 0.01 | 6.80 | 3.06 | 4,490 |
| SVMW-04 | 50 - 52.5 | 8/11/05 | 0.11 | 0.01 | 7.01 | 3.68 | 3,960 |
| SVMW-04 | 50 - 52.5 | 11/22/05 | 0.08 | 0.01 | 7.90 | 4.14 | 3,740 |
| SVMW-04 | 50 - 52.5 | 2/24/06 | 0.06 | 0.01 | 8.18 | 4.22 | 3,540 |
| SVMW-04 | 50 - 52.5 | 4/11/06 | 0.42 | 0.02 | 10.00 | 2.62 | 4,730 |
| SVMW-04 | 50 - 52.5 | 8/9/06 | -0.16 | 0.01 | 10.18 | 3.30 | 3,600 |
| SVMW-04 | 50 - 52.5 | 8/21/06 | -0.27 | 0.01 | 10.10 | 3.40 | 3,550 |
| SVMW-04 | 50 - 52.5 | 9/21/06 | 0.07 | 0.01 | 10.54 | 3.32 | 3,940 |
| SVMW-04 | 50 - 52.5 | 10/24/06 | 0.01 | 0.02 | 10.86 | 3.04 | 4,130 |
| SVMW-04 | 50 - 52.5 | 2/28/07 | 0.04 | 0.01 | 11.46 | 3.04 | 4,500 |
| SVMW-04 | 50 - 52.5 | 8/24/07 | 0.09 | 0.01 | 11.24 | 2.92 | 2,950 |
| SVMW-04 | 50 - 52.5 | 11/28/07 | 0.02 | 0.01 | 11.90 | 3.40 | 2,850 |
| SVMW-04 | 50 - 52.5 | 3/6/08 | 0.52 | 0.01 | 12.42 | 3.06 | 3,700 |
| SVMW-04 | 50 - 52.5 | 5/12/08 | 0.06 | 0.04 | 13.02 | 2.86 | 3,550 |
| SVMW-04 | 50 - 52.5 | 7/17/08 | -0.03 | 0.01 | 9.90 | 4.96 | 2,230 |
| SVMW-04 | 50 - 52.5 | 9/29/08 | 0.12 | 0.01 | 11.94 | 4.20 | 2,160 |
| SVMW-04 | 50 - 52.5 | 12/11/08 | 0.45 | 0.00 | 10.66 | 5.05 | 2,090 |
| SVMW-04 | 50 - 52.5 | 2/18/09 | atm | 0.00 | 8.04 | 9.77 | 1,256 |
| SVMW-04 | 50 - 52.5 | 5/11/09 | 0.41 | 0.00 | 8.12 | 10.02 | 1,552 |
| SVMW-04 | 50 - 52.5 | 8/14/09 | -0.03 | 0.00 | 10.36 | 6.20 | 1,183 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-04 | 50 - 52.5 | 11/11/09 | -0.13 | 0.00 | 10.66 | 6.61 | 1,121 |
| SVMW-04 | 50 - 52.5 | 2/18/10 | ATM | 0.00 | 10.94 | 5.63 | 1,544 |
| SVMW-04 | 50 - 52.5 | 5/13/10 | 0.08 | 0.00 | 7.48 | 9.76 | 2,240 |
| SVMW-04 | 98 - 100.5 | 7/26/04 | 0.18 | 0.06 | 5.96 | 5.90 | 20,340 |
| SVMW-04 | 98 - 100.5 | 2/3/05 | 0.03 | 0.05 | 7.60 | 4.28 | 21,960 |
| SVMW-04 | 98 - 100.5 | 3/31/05 | -3.4 | 0.06 | 7.54 | 4.66 | 25,650 |
| SVMW-04 | 98 - 100.5 | 8/11/05 | 0.14 | 0.06 | 7.84 | 3.10 | 21,510 |
| SVMW-04 | 98 - 100.5 | 11/22/05 | 0.05 | 0.06 | 8.70 | 3.14 | 21,500 |
| SVMW-04 | 98 - 100.5 | 2/24/06 | 0.06 | 0.05 | 8.40 | 4.06 | 22,680 |
| SVMW-04 | 98 - 100.5 | 4/11/06 | 0.53 | 0.14 | 10.74 | 2.16 | 26,370 |
| SVMW-04 | 98 - 100.5 | 8/9/06 | -0.21 | 0.15 | 11.46 | 1.86 | 23,850 |
| SVMW-04 | 98 - 100.5 | 8/21/06 | -0.31 | 0.15 | 11.44 | 1.96 | 24,390 |
| SVMW-04 | 98 - 100.5 | 9/21/06 | 0.04 | 0.15 | 11.68 | 1.88 | 23,310 |
| SVMW-04 | 98 - 100.5 | 10/24/06 | 0.02 | 0.12 | 11.92 | 2.04 | 27,000 |
| SVMW-04 | 98 - 100.5 | 2/28/07 | 0.03 | 0.16 | 12.16 | 1.98 | 23,130 |
| SVMW-04 | 98 - 100.5 | 8/24/07 | 0.11 | 0.13 | 12.30 | 2.06 | 20,880 |
| SVMW-04 | 98 - 100.5 | 11/28/07 | 0.34 | 0.13 | 12.96 | 2.02 | 21,510 |
| SVMW-04 | 98 - 100.5 | 3/6/08 | 0.54 | 0.20 | 13.24 | 2.16 | 26,730 |
| SVMW-04 | 98 - 100.5 | 5/12/08 | 0.06 | 0.21 | 13.52 | 2.10 | 25,470 |
| SVMW-04 | 98 - 100.5 | 7/17/08 | -0.95 | 0.08 | 10.38 | 3.06 | 51,030 |
| SVMW-04 | 98 - 100.5 | 9/29/08 | 0.17 | 0.13 | 13.20 | 2.30 | 19,620 |
| SVMW-04 | 98 - 100.5 | 12/11/08 | 0.63 | 0.02 | 11.90 | 4.52 | 19,800 |
| SVMW-04 | 98 - 100.5 | 2/18/09 | -0.04 | 0.01 | 8.90 | 8.57 | 11,673 |
| SVMW-04 | 98 - 100.5 | 5/11/09 | 0.56 | 0.02 | 10.62 | 7.30 | 15,282 |
| SVMW-04 | 98 - 100.5 | 8/14/09 | -0.05 | 0.01 | 12.28 | 4.27 | 19,440 |
| SVMW-04 | 98 - 100.5 | 11/11/09 | -0.16 | 0.02 | 13.30 | 3.84 | 21,420 |
| SVMW-04 | 98 - 100.5 | 2/18/10 | ATM | 0.00 | 13.04 | 3.47 | 19,890 |
| SVMW-04 | 98 - 100.5 | 5/13/10 | 0.12 | 0.01 | 8.50 | 9.68 | 25,020 |
| SVMW-04 | 250 - 252.5 | 7/26/04 | -0.55 | 0.05 | 3.02 | 9.80 | 28,440 |
| SVMW-04 | 250 - 252.5 | 2/3/05 | -2.0 | 0.05 | 3.24 | 10.30 | 32,400 |
| SVMW-04 | 250 - 252.5 | 3/31/05 | -2.2 | 0.05 | 3.42 | 9.14 | 30,870 |
| SVMW-04 | 250 - 252.5 | 8/11/05 | -0.07 | 0.08 | 3.80 | 8.80 | 26,280 |
| SVMW-04 | 250 - 252.5 | 11/22/05 | -1.7 | 0.05 | 3.16 | 10.96 | 24,850 |
| SVMW-04 | 250 - 252.5 | 2/24/06 | -2.0 | 0.04 | 2.82 | 13.18 | 17,595 |
| SVMW-04 | 250 - 252.5 | 4/11/06 | 1.4 | 0.11 | 3.78 | 12.48 | 19,530 |
| SVMW-04 | 250 - 252.5 | 8/9/06 | -2.0 | 0.11 | 3.78 | 12.50 | 20,790 |
| SVMW-04 | 250 - 252.5 | 8/21/06 | -1.7 | 0.13 | 3.86 | 11.96 | 21,690 |
| SVMW-04 | 250 - 252.5 | 9/21/06 | 0.31 | 0.11 | 3.86 | 12.90 | 18,720 |
| SVMW-04 | 250 - 252.5 | 10/24/06 | -0.44 | 0.11 | 3.94 | 12.90 | 20,070 |
| SVMW-04 | 250 - 252.5 | 2/28/07 | 0.58 | 0.10 | 3.86 | 13.58 | 15,120 |
| SVMW-04 | 250 - 252.5 | 8/24/07 | 0.13 | 0.08 | 3.46 | 14.10 | 14,283 |
| SVMW-04 | 250 - 252.5 | 11/28/07 | -1.4 | 0.06 | 3.54 | 14.98 | 11,574 |
| SVMW-04 | 250 - 252.5 | 3/6/08 | 2.60 | 0.10 | 3.86 | 14.56 | 23,400 |
| SVMW-04 | 250 - 252.5 | 5/12/08 | 0.73 | 0.13 | 3.90 | 13.80 | 15,300 |
| SVMW-04 | 250 - 252.5 | 7/17/08 | -0.77 | 0.05 | 2.96 | 19.36 | 10,341 |
| SVMW-04 | 250 - 252.5 | 9/29/08 | -0.96 | 0.08 | 3.68 | 14.14 | 12,690 |
| SVMW-04 | 250 - 252.5 | 12/11/08 | 4.20 | 0.02 | 3.30 | 15.60 | 9,990 |
| SVMW-04 | 250 - 252.5 | 2/18/09 | -0.88 | 0.00 | 2.00 | 17.85 | 3,696 |
| SVMW-04 | 250 - 252.5 | 5/11/09 | 0.95 | 0.01 | 2.48 | 17.76 | 3,950 |
| SVMW-04 | 250 - 252.5 | 8/14/09 | -0.45 | 0.00 | 2.68 | 17.11 | 3,440 |
| SVMW-04 | 250 - 252.5 | 11/11/09 | -2.2 | 0.00 | 2.34 | 19.01 | 2,470 |
| SVMW-04 | 250 - 252.5 | 2/18/10 | 0.89 | 0.00 | 2.68 | 16.80 | 5,160 |
| SVMW-04 | 250 - 252.5 | 5/13/10 | -1.9 | 0.00 | 1.48 | 18.64 | 3,430 |
| SVMW-04 | 297.5 - 300 | 7/26/04 | -0.48 | 0.02 | 0.52 | 16.70 | 12,735 |
| SVMW-04 | 297.5 - 300 | 2/3/05 | -2.4 | 0.02 | 0.78 | 16.46 | 11,700 |
| SVMW-04 | 297.5 - 300 | 3/31/05 | -2.4 | 0.01 | 0.38 | 16.96 | 8,330 |
| SVMW-04 | 297.5 - 300 | 8/11/05 | 0.14 | 0.01 | 0.40 | 16.34 | 7,820 |
| SVMW-04 | 297.5 - 300 | 11/22/05 | -1.8 | 0.02 | 0.48 | 16.76 | 6,720 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-04 | 297.5 - 300 | 2/24/06 | -1.9 | 0.01 | 0.34 | 17.12 | 7,200 |
| SVMW-04 | 297.5 - 300 | 4/11/06 | 1.6 | 0.03 | 0.58 | 17.22 | 10,008 |
| SVMW-04 | 297.5 - 300 | 8/9/06 | -2.2 | 0.02 | 0.54 | 17.26 | 7,180 |
| SVMW-04 | 297.5 - 300 | 8/21/06 | -1.9 | 0.01 | 0.52 | 17.28 | 7,180 |
| SVMW-04 | 297.5 - 300 | 9/21/06 | 0.30 | 0.02 | 0.58 | 17.60 | 6,910 |
| SVMW-04 | 297.5 - 300 | 10/24/06 | -0.59 | 0.01 | 0.54 | 17.90 | 6,870 |
| SVMW-04 | 297.5 - 300 | 2/28/07 | 1.12 | 0.01 | 0.52 | 17.38 | 5,880 |
| SVMW-04 | 297.5 - 300 | 8/24/07 | 0.26 | 0.01 | 0.52 | 17.24 | 4,670 |
| SVMW-04 | 297.5 - 300 | 11/28/07 | -1.4 | 0.01 | 0.66 | 18.24 | 4,230 |
| SVMW-04 | 297.5 - 300 | 3/6/08 | 2.80 | 0.00 | 0.58 | 18.58 | 4,590 |
| SVMW-04 | 297.5 - 300 | 5/12/08 | 0.73 | 0.04 | 0.88 | 17.58 | 4,510 |
| SVMW-04 | 297.5 - 300 | 7/17/08 | -0.82 | 0.53 | 3.34 | 19.64 | 4,190 |
| SVMW-04 | 297.5 - 300 | 9/29/08 | -1.00 | 0.00 | 0.66 | 17.86 | 2,620 |
| SVMW-04 | 297.5 - 300 | 12/11/08 | 4.60 | 0.00 | 0.64 | 18.68 | 1,881 |
| SVMW-04 | 297.5 - 300 | 2/18/09 | -0.84 | 0.00 | 0.54 | 19.39 | 1,453 |
| SVMW-04 | 297.5 - 300 | 5/11/09 | 0.91 | 0.00 | 0.68 | 19.25 | 1,442 |
| SVMW-04 | 297.5 - 300 | 8/14/09 | -0.52 | 0.00 | 0.88 | 18.78 | 761 |
| SVMW-04 | 297.5 - 300 | 11/11/09 | -2.8 | 0.00 | 0.94 | 20.30 | 558 |
| SVMW-04 | 297.5 - 300 | 2/18/10 | 0.91 | 0.00 | 0.92 | 18.43 | 1,101 |
| SVMW-04 | 297.5 - 300 | 5/13/10 | -1.7 | 0.00 | 0.46 | 19.60 | 960 |
| SVMW-05 | 50 - 52.5 | 7/26/04 | 0.32 | 0.01 | 6.54 | 13.14 | 97 |
| SVMW-05 | 50 - 52.5 | 2/3/05 | 0.27 | 0.01 | 6.70 | 13.34 | 28 |
| SVMW-05 | 50 - 52.5 | 3/31/05 | atm | 0.00 | 6.92 | 13.22 | 9 |
| SVMW-05 | 50 - 52.5 | 8/11/05 | 0.30 | 0.01 | 5.46 | 13.60 | 215 |
| SVMW-05 | 50 - 52.5 | 11/21/05 | atm | 0.01 | 6.32 | 13.96 | 14 |
| SVMW-05 | 50 - 52.5 | 2/24/06 | 0.08 | 0.01 | 4.16 | 15.44 | 71 |
| SVMW-05 | 50 - 52.5 | 4/11/06 | 0.34 | 0.01 | 7.18 | 13.00 | 103 |
| SVMW-05 | 50 - 52.5 | 8/9/06 | -0.18 | 0.01 | 7.18 | 12.94 | 30 |
| SVMW-05 | 50 - 52.5 | 8/22/06 | -0.20 | 0.01 | 7.26 | 13.12 | 16 |
| SVMW-05 | 50 - 52.5 | 9/21/06 | 0.06 | 0.00 | 7.34 | 13.02 | 2 |
| SVMW-05 | 50 - 52.5 | 10/24/06 | atm | 0.01 | 7.30 | 13.00 | 48 |
| SVMW-05 | 50 - 52.5 | 2/28/07 | 0.17 | 0.01 | 7.44 | 13.06 | 75 |
| SVMW-05 | 50 - 52.5 | 8/27/07 | 0.13 | 0.01 | 6.72 | 13.20 | 5 |
| SVMW-05 | 50 - 52.5 | 11/28/07 | 0.17 | 0.01 | 5.86 | 15.10 | 5 |
| SVMW-05 | 50 - 52.5 | 3/6/08 | 0.42 | 0.01 | 6.38 | 12.94 | 120 |
| SVMW-05 | 50 - 52.5 | 5/12/08 | 0.16 | 0.01 | 12.78 | 6.78 | 38 |
| SVMW-05 | 50 - 52.5 | 7/18/08 | -0.04 | 0.01 | 6.46 | 15.16 | 9 |
| SVMW-05 | 50 - 52.5 | 9/29/08 | 0.12 | 0.00 | 0.26 | 26.48 | 54 |
| SVMW-05 | 50 - 52.5 | 12/11/08 | 0.28 | 0.00 | 5.96 | 13.59 | 62 |
| SVMW-05 | 50 - 52.5 | 2/18/09 | atm | 0.00 | 5.58 | 13.71 | 348 |
| SVMW-05 | 50 - 52.5 | 5/11/09 | 0.52 | 0.00 | 5.42 | 13.59 | 127 |
| SVMW-05 | 50 - 52.5 | 8/14/09 | -0.06 | 0.00 | 5.66 | 13.97 | 31 |
| SVMW-05 | 50 - 52.5 | 11/11/09 | -0.10 | 0.00 | 5.78 | 15.09 | 27 |
| SVMW-05 | 50 - 52.5 | 2/18/10 | 0.15 | 0.00 | 4.82 | 14.90 | 808 |
| SVMW-05 | 50 - 52.5 | 5/13/10 | 0.02 | 0.00 | 4.36 | 16.61 | 1,085 |
| SVMW-05 | 100 - 102.5 | 7/26/04 | 0.44 | 0.01 | 8.54 | 9.60 | 1,184 |
| SVMW-05 | 100 - 102.5 | 2/3/05 | 0.36 | 0.01 | 8.84 | 10.24 | 1,004 |
| SVMW-05 | 100 - 102.5 | 3/31/05 | -0.22 | 0.01 | 6.26 | 10.12 | 989 |
| SVMW-05 | 100 - 102.5 | 8/11/05 | 0.40 | 0.01 | 8.18 | 9.60 | 713 |
| SVMW-05 | 100 - 102.5 | 11/21/05 | atm | 0.01 | 8.50 | 10.38 | 640 |
| SVMW-05 | 100 - 102.5 | 2/24/06 | 0.08 | 0.01 | 8.30 | 10.48 | 653 |
| SVMW-05 | 100 - 102.5 | 4/11/06 | 0.52 | 0.01 | 9.40 | 10.40 | 730 |
| SVMW-05 | 100 - 102.5 | 8/9/06 | -0.23 | 0.01 | 9.86 | 9.36 | 692 |
| SVMW-05 | 100 - 102.5 | 8/22/06 | -0.28 | 0.01 | 9.64 | 10.00 | 852 |
| SVMW-05 | 100 - 102.5 | 9/21/06 | 0.07 | 0.01 | 10.12 | 9.22 | 325 |
| SVMW-05 | 100 - 102.5 | 10/24/06 | atm | 0.01 | 10.14 | 9.14 | 494 |
| SVMW-05 | 100 - 102.5 | 2/28/07 | 0.24 | 0.01 | 10.32 | 9.20 | 188 |
| SVMW-05 | 100 - 102.5 | 8/27/07 | 0.19 | 0.01 | 9.56 | 9.76 | 711 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-05 | 100 - 102.5 | 11/28/07 | 0.26 | 0.01 | 9.62 | 10.30 | 619 |
| SVMW-05 | 100 - 102.5 | 3/6/08 | 0.62 | 0.01 | 8.62 | 9.68 | 630 |
| SVMW-05 | 100 - 102.5 | 5/12/08 | 0.20 | 0.02 | 10.52 | 8.44 | 235 |
| SVMW-05 | 100 - 102.5 | 7/18/08 | -0.07 | 0.01 | 8.68 | 10.54 | 513 |
| SVMW-05 | 100 - 102.5 | 9/29/08 | 0.18 | 0.00 | 9.40 | 9.59 | 716 |
| SVMW-05 | 100 - 102.5 | 12/11/08 | 0.52 | 0.00 | 8.16 | 10.41 | 466 |
| SVMW-05 | 100 - 102.5 | 2/18/09 | atm | 0.00 | 7.90 | 10.77 | 411 |
| SVMW-05 | 100 - 102.5 | 5/11/09 | 0.74 | 0.00 | 7.72 | 9.83 | 312 |
| SVMW-05 | 100 - 102.5 | 8/14/09 | -0.08 | 0.00 | 7.88 | 10.37 | 229 |
| SVMW-05 | 100 - 102.5 | 11/11/09 | -0.15 | 0.00 | 8.24 | 11.21 | 437 |
| SVMW-05 | 100 - 102.5 | 2/18/10 | 0.18 | 0.00 | 8.60 | 9.70 | 705 |
| SVMW-05 | 100 - 102.5 | 5/13/10 | 0.02 | 0.00 | 4.60 | 15.09 | 1,100 |
| SVMW-05 | 229.5 - 231 | 7/26/04 | -0.2 | 0.01 | 2.60 | 13.42 | 4,730 |
| SVMW-05 | 229.5 - 231 | 2/3/05 | -2.0 | 0.01 | 2.92 | 15.04 | 3,270 |
| SVMW-05 | 229.5 - 231 | 3/31/05 | -2.0 | 0.01 | 3.06 | 14.30 | 5,340 |
| SVMW-05 | 229.5 - 231 | 8/11/05 | 0.48 | 0.01 | 2.90 | 13.92 | 2,930 |
| SVMW-05 | 229.5 - 231 | 11/21/05 | -1.7 | 0.00 | 2.62 | 17.90 | 351 |
| SVMW-05 | 229.5 - 231 | 2/24/06 | -1.8 | 0.01 | 2.38 | 16.38 | 768 |
| SVMW-05 | 229.5 - 231 | 4/11/06 | 1.6 | 0.01 | 2.70 | 16.48 | 1,243 |
| SVMW-05 | 229.5 - 231 | 8/9/06 | -2.0 | 0.01 | 2.58 | 16.44 | 498 |
| SVMW-05 | 229.5 - 231 | 8/22/06 | -1.8 | 0.01 | 2.68 | 16.84 | 501 |
| SVMW-05 | 229.5 - 231 | 9/21/06 | 0.39 | 0.01 | 2.64 | 17.00 | 435 |
| SVMW-05 | 229.5 - 231 | 10/24/06 | -0.42 | 0.01 | 2.64 | 16.82 | 544 |
| SVMW-05 | 229.5 - 231 | 2/28/07 | 0.93 | 0.00 | 2.44 | 16.44 | 480 |
| SVMW-05 | 229.5 - 231 | 8/27/07 | 0.35 | 0.01 | 2.18 | 17.88 | 124 |
| SVMW-05 | 229.5 - 231 | 11/28/07 | -1.4 | 0.00 | 2.08 | 18.98 | 87 |
| SVMW-05 | 229.5 - 231 | 3/6/08 | 2.70 | 0.01 | 1.98 | 18.20 | 252 |
| SVMW-05 | 229.5 - 231 | 5/12/08 | 0.83 | 0.02 | 2.18 | 17.20 | 196 |
| SVMW-05 | 229.5 - 231 | 7/18/08 | -0.69 | 0.01 | 1.80 | 20.72 | 54 |
| SVMW-05 | 229.5 - 231 | 9/29/08 | -0.88 | 0.00 | 1.76 | 18.80 | 176 |
| SVMW-05 | 229.5 - 231 | 12/11/08 | 4.80 | 0.00 | 1.52 | 18.98 | 60 |
| SVMW-05 | 229.5 - 231 | 2/18/09 | -0.73 | 0.00 | 1.50 | 18.77 | 97 |
| SVMW-05 | 229.5 - 231 | 5/11/09 | 0.31 | 0.00 | 1.32 | 19.29 | 52 |
| SVMW-05 | 229.5 - 231 | 8/14/09 | -0.22 | 0.00 | 1.32 | 19.22 | 16 |
| SVMW-05 | 229.5 - 231 | 11/11/09 | -2.4 | 0.00 | 1.10 | 21.05 | 26 |
| SVMW-05 | 229.5 - 231 | 2/18/10 | 0.79 | 0.00 | 1.28 | 19.00 | 500 |
| SVMW-05 | 229.5 - 231 | 5/13/10 | -1.7 | 0.00 | 0.94 | 19.39 | 543 |
| SVMW-05 | 287.5 - 290 | 7/26/04 | -0.15 | 0.02 | 1.32 | 14.92 | 12,807 |
| SVMW-05 | 287.5 - 290 | 2/3/05 | -2.3 | 0.01 | 1.90 | 16.28 | 6,750 |
| SVMW-05 | 287.5 - 290 | 3/31/05 | -2.1 | 0.01 | 1.90 | 16.48 | 6,720 |
| SVMW-05 | 287.5 - 290 | 8/11/05 | 0.50 | 0.01 | 1.40 | 14.88 | 7,190 |
| SVMW-05 | 287.5 - 290 | 11/21/05 | -1.9 | 0.00 | 0.10 | 21.56 | 12 |
| SVMW-05 | 287.5 - 290 | 2/24/06 | -1.9 | 0.01 | 11.44 | 16.84 | 4,970 |
| SVMW-05 | 287.5 - 290 | 4/11/06 | 1.7 | 0.01 | 1.54 | 16.06 | 6,750 |
| SVMW-05 | 287.5 - 290 | 8/9/06 | -2.1 | 0.02 | 1.56 | 16.44 | 5,400 |
| SVMW-05 | 287.5 - 290 | 8/22/06 | -1.8 | 0.02 | 1.52 | 17.24 | 4,640 |
| SVMW-05 | 287.5 - 290 | 9/21/06 | 0.36 | 0.01 | 1.64 | 17.08 | 5,610 |
| SVMW-05 | 287.5 - 290 | 10/24/06 | -0.53 | 0.01 | 1.64 | 16.96 | 5,000 |
| SVMW-05 | 287.5 - 290 | 2/28/07 | 1.05 | 0.01 | 1.64 | 16.52 | 4,470 |
| SVMW-05 | 287.5 - 290 | 8/27/07 | 0.39 | 0.01 | 1.42 | 17.10 | 3,270 |
| SVMW-05 | 287.5 - 290 | 11/28/07 | -1.5 | 0.01 | 1.74 | 18.42 | 3,100 |
| SVMW-05 | 287.5 - 290 | 3/6/08 | 2.30 | 0.01 | 1.52 | 17.98 | 2,620 |
| SVMW-05 | 287.5 - 290 | 5/12/08 | 0.79 | 0.02 | 1.64 | 16.90 | 2,810 |
| SVMW-05 | 287.5 - 290 | 7/18/08 | -0.73 | 0.01 | 1.40 | 20.38 | 2,180 |
| SVMW-05 | 287.5 - 290 | 9/29/08 | -0.99 | 0.00 | 1.28 | 17.76 | 167 |
| SVMW-05 | 287.5 - 290 | 12/11/08 | 4.30 | 0.00 | 1.50 | 18.44 | 1,108 |
| SVMW-05 | 287.5 - 290 | 2/18/09 | -0.74 | 0.00 | 1.40 | 18.47 | 1,010 |
| SVMW-05 | 287.5 - 290 | 5/11/09 | 0.12 | 0.00 | 1.14 | 19.36 | 816 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-05 | 287.5 - 290 | 8/14/09 | -0.38 | 0.00 | 0.90 | 19.38 | 443 |
| SVMW-05 | 287.5 - 290 | 11/11/09 | -2.6 | 0.00 | 0.66 | 21.69 | 115 |
| SVMW-05 | 287.5 - 290 | 2/18/10 | 0.74 | 0.00 | 1.14 | 18.89 | 730 |
| SVMW-05 | 287.5 - 290 | 5/13/10 | -1.6 | 0.00 | 0.36 | 20.09 | 500 |
| SVMW-06 | 50 - 52.5 | 7/26/04 | 0.26 | 0.01 | 3.86 | 11.94 | 266 |
| SVMW-06 | 50 - 52.5 | 2/3/05 | 0.15 | 0.01 | 4.08 | 13.96 | 46 |
| SVMW-06 | 50 - 52.5 | 3/31/05 | -0.1 | 0.01 | 4.20 | 12.72 | 43 |
| SVMW-06 | 50 - 52.5 | 8/11/05 | 0.41 | 0.01 | 3.72 | 12.42 | 599 |
| SVMW-06 | 50 - 52.5 | 11/21/05 | 0.07 | 0.01 | 3.80 | 13.58 | 4 |
| SVMW-06 | 50 - 52.5 | 2/24/06 | 0 | 0.01 | 3.80 | 14.04 | 366 |
| SVMW-06 | 50 - 52.5 | 4/11/06 | 0.34 | 0.01 | 4.06 | 13.62 | 236 |
| SVMW-06 | 50 - 52.5 | 8/9/06 | -0.19 | 0.01 | 4.36 | 13.34 | 44 |
| SVMW-06 | 50 - 52.5 | 8/21/06 | -0.26 | 0.01 | 4.34 | 13.60 | 35 |
| SVMW-06 | 50 - 52.5 | 9/20/06 | 0.06 | 0.01 | 4.46 | 13.40 | 12 |
| SVMW-06 | 50 - 52.5 | 12/11/06 | -0.04 | 0.01 | 4.62 | 13.98 | 10 |
| SVMW-06 | 50 - 52.5 | 2/27/07 | 0.02 | 0.01 | 4.62 | 13.80 | 36 |
| SVMW-06 | 50 - 52.5 | 8/27/07 | 0.11 | 0.01 | 0.34 | 21.50 | 3 |
| SVMW-06 | 50 - 52.5 | 11/27/07 | 0.12 | 0.01 | 3.60 | 14.10 | 434 |
| SVMW-06 | 50 - 52.5 | 3/6/08 | -- | 0.01 | 0.26 | 20.84 | 115 |
| SVMW-06 | 50 - 52.5 | 5/12/08 | 0.16 | 0.01 | 3.04 | 15.04 | 210 |
| SVMW-06 | 50 - 52.5 | 7/18/08 | -0.09 | 0.01 | 4.08 | 14.46 | 0 |
| SVMW-06 | 50 - 52.5 | 9/29/08 | 0.15 | 0.01 | 4.46 | 14.72 | 7 |
| SVMW-06 | 50 - 52.5 | 12/11/08 | 0.42 | 0.00 | 3.28 | 16.15 | 75 |
| SVMW-06 | 50 - 52.5 | 2/18/09 | -0.14 | 0.00 | 3.40 | 17.91 | 667 |
| SVMW-06 | 50 - 52.5 | 5/12/09 | 0.44 | 0.00 | 2.98 | 17.26 | 162 |
| SVMW-06 | 50 - 52.5 | 8/14/09 | 0.08 | 0.00 | 3.70 | 16.18 | 259 |
| SVMW-06 | 50 - 52.5 | 11/10/09 | 0.08 | 0.00 | 3.72 | 15.51 | 203 |
| SVMW-06 | 50 - 52.5 | 2/18/10 | 0.10 | 0.00 | 4.08 | 15.35 | 885 |
| SVMW-06 | 50 - 52.5 | 5/13/10 | -0.12 | 0.00 | 2.00 | 18.69 | 155 |
| SVMW-06 | 99.5 - 102 | 7/26/04 | atm | 0.02 | 8.22 | 4.48 | 1,059 |
| SVMW-06 | 99.5 - 102 | 2/3/05 | 0.20 | 0.01 | 7.82 | 7.38 | 492 |
| SVMW-06 | 99.5 - 102 | 3/31/05 | -0.2 | 0.01 | 8.44 | 6.02 | 1,173 |
| SVMW-06 | 99.5 - 102 | 8/11/05 | 0.09 | 0.01 | 7.92 | 5.28 | 715 |
| SVMW-06 | 99.5 - 102 | 11/21/05 | atm | 0.01 | 7.46 | 7.58 | 315 |
| SVMW-06 | 99.5 - 102 | 2/24/06 | -0.05 | 0.01 | 7.62 | 8.38 | 345 |
| SVMW-06 | 99.5 - 102 | 4/11/06 | 0.46 | 0.01 | 8.40 | 7.98 | 403 |
| SVMW-06 | 99.5 - 102 | 8/9/06 | -0.27 | 0.01 | 9.10 | 6.70 | 281 |
| SVMW-06 | 99.5 - 102 | 8/21/06 | -0.37 | 0.01 | 8.68 | 7.22 | 215 |
| SVMW-06 | 99.5 - 102 | 9/20/06 | 0.05 | 0.01 | 9.48 | 6.56 | 332 |
| SVMW-06 | 99.5 - 102 | 12/11/06 | 0.02 | 0.01 | 8.68 | 8.48 | 674 |
| SVMW-06 | 99.5 - 102 | 2/27/07 | 0.02 | 0.01 | 9.36 | 7.38 | 237 |
| SVMW-06 | 99.5 - 102 | 8/27/07 | 0.11 | 0.01 | 0.38 | 21.60 | 6 |
| SVMW-06 | 99.5 - 102 | 11/27/07 | 0.34 | 0.01 | 6.36 | 11.06 | 1,001 |
| SVMW-06 | 99.5 - 102 | 3/6/08 | -- | 0.00 | 0.36 | 20.98 | 180 |
| SVMW-06 | 99.5 - 102 | 5/12/08 | 0.19 | 0.01 | 5.76 | 11.48 | 856 |
| SVMW-06 | 99.5 - 102 | 7/18/08 | -0.14 | 0.01 | 7.00 | 9.58 | 63 |
| SVMW-06 | 99.5 - 102 | 9/29/08 | 0.05 | 0.01 | 7.74 | 10.14 | 45 |
| SVMW-06 | 99.5 - 102 | 12/11/08 | 0.74 | 0.00 | 6.28 | 11.60 | 66 |
| SVMW-06 | 99.5 - 102 | 2/18/09 | -0.27 | 0.00 | 5.58 | 14.30 | 170 |
| SVMW-06 | 99.5 - 102 | 5/12/09 | 0.68 | 0.00 | 5.28 | 13.43 | 70 |
| SVMW-06 | 99.5 - 102 | 8/14/09 | 0.08 | 0.00 | 6.88 | 11.19 | 158 |
| SVMW-06 | 99.5 - 102 | 11/10/09 | 0.08 | 0.00 | 6.66 | 11.31 | 337 |
| SVMW-06 | 99.5 - 102 | 2/18/10 | 0.06 | 0.00 | 6.94 | 11.34 | 652 |
| SVMW-06 | 99.5 - 102 | 5/13/10 | -0.20 | 0.00 | 2.22 | 16.37 | 129 |
| SVMW-06 | 252 - 254.5 | 7/26/04 | -0.42 | 0.03 | 1.22 | 9.76 | 16,695 |
| SVMW-06 | 252 - 254.5 | 2/3/05 | -1.8 | 0.03 | 1.40 | 11.04 | 20,970 |
| SVMW-06 | 252 - 254.5 | 3/31/05 | -1.9 | 0.02 | 2.30 | 10.06 | 486 |
| SVMW-06 | 252 - 254.5 | 8/11/05 | 0.93 | 0.04 | 1.38 | 8.02 | 23,490 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-06 | 252 - 254.5 | 11/21/05 | -1.6 | 0.03 | 1.06 | 12.50 | 15,624 |
| SVMW-06 | 252 - 254.5 | 2/24/06 | -1.9 | 0.03 | 2.32 | 10.08 | 27,090 |
| SVMW-06 | 252 - 254.5 | 4/11/06 | 0.88 | 0.10 | 2.42 | 11.50 | 28,710 |
| SVMW-06 | 252 - 254.5 | 8/9/06 | -2.1 | 0.10 | 1.98 | 9.10 | 23,670 |
| SVMW-06 | 252 - 254.5 | 8/21/06 | -1.7 | 0.01 | 1.74 | 9.88 | 22,050 |
| SVMW-06 | 252 - 254.5 | 9/20/06 | 0.37 | 0.11 | 2.06 | 8.92 | 24,390 |
| SVMW-06 | 252 - 254.5 | 12/11/06 | -0.62 | 0.11 | 2.52 | 9.22 | 23,940 |
| SVMW-06 | 252 - 254.5 | 2/27/07 | 1.0 | 0.14 | 3.30 | 8.12 | 32,130 |
| SVMW-06 | 252 - 254.5 | 8/27/07 | 0.19 | 0.01 | 0.14 | 21.94 | 27 |
| SVMW-06 | 252 - 254.5 | 11/27/07 | -0.84 | 0.01 | 2.54 | 15.76 | 625 |
| SVMW-06 | 252 - 254.5 | 3/6/08 | -- | 0.00 | 0.26 | 21.18 | 225 |
| SVMW-06 | 252 - 254.5 | 5/12/08 | 0.62 | 0.01 | 0.90 | 16.48 | 2,810 |
| SVMW-06 | 252 - 254.5 | 7/18/08 | -0.86 | 0.02 | 1.28 | 11.78 | 10,440 |
| SVMW-06 | 252 - 254.5 | 9/29/08 | -1.10 | 0.04 | 1.74 | 11.64 | 11,727 |
| SVMW-06 | 252 - 254.5 | 12/11/08 | 3.80 | 0.00 | 1.94 | 13.06 | 13,500 |
| SVMW-06 | 252 - 254.5 | 2/18/09 | -4.00 | 0.01 | 1.70 | 16.55 | 8,380 |
| SVMW-06 | 252 - 254.5 | 5/12/09 | 1.6 | 0.00 | 1.38 | 15.26 | 7,150 |
| SVMW-06 | 252 - 254.5 | 8/14/09 | -0.38 | 0.00 | 1.82 | 12.17 | 8,600 |
| SVMW-06 | 252 - 254.5 | 11/10/09 | -2.1 | 0.00 | 1.84 | 12.00 | 7,401 |
| SVMW-06 | 252 - 254.5 | 2/18/10 | 0.52 | 0.00 | 1.98 | 11.96 | 7,550 |
| SVMW-06 | 252 - 254.5 | 5/13/10 | -1.00 | 0.00 | 2.48 | 15.55 | 5,380 |
| SVMW-06 | 302.5 - 305 | 7/26/04 | -0.58 | 0.02 | 0.92 | 12.80 | 25,470 |
| SVMW-06 | 302.5 - 305 | 2/3/05 | -2.4 | 0.01 | 1.00 | 13.04 | 33,930 |
| SVMW-06 | 302.5 - 305 | 3/31/05 | -1.9 | 0.01 | 0.38 | 17.88 | 3,790 |
| SVMW-06 | 302.5 - 305 | 8/11/05 | 0.10 | 0.04 | 0.96 | 11.86 | 37,440 |
| SVMW-06 | 302.5 - 305 | 11/21/05 | -1.7 | 0.02 | 1.00 | 12.26 | 9,513 |
| SVMW-06 | 302.5 - 305 | 2/24/06 | -2.0 | 0.00 | 0.12 | 20.12 | 386 |
| SVMW-06 | 302.5 - 305 | 4/11/06 | 0.98 | 0.12 | 1.72 | 12.12 | 42,840 |
| SVMW-06 | 302.5 - 305 | 8/9/06 | -2.3 | 0.14 | 1.98 | 11.76 | 33,120 |
| SVMW-06 | 302.5 - 305 | 8/21/06 | -1.9 | 0.15 | 2.06 | 11.80 | 31,140 |
| SVMW-06 | 302.5 - 305 | 9/20/06 | 0.09 | 0.13 | 1.86 | 11.88 | 31,860 |
| SVMW-06 | 302.5 - 305 | 12/11/06 | -0.78 | 0.13 | 1.94 | 11.88 | 32,040 |
| SVMW-06 | 302.5 - 305 | 2/27/07 | 1.0 | 0.13 | 1.84 | 11.50 | 30,330 |
| SVMW-06 | 302.5 - 305 | 8/27/07 | 0.22 | 0.01 | 0.14 | 21.92 | 45 |
| SVMW-06 | 302.5 - 305 | 11/27/07 | -1.2 | 0.01 | 3.54 | 14.84 | 720 |
| SVMW-06 | 302.5 - 305 | 3/6/08 | -- | 0.00 | 0.14 | 21.42 | 190 |
| SVMW-06 | 302.5 - 305 | 5/12/08 | 0.70 | 0.02 | 0.86 | 15.88 | 8,340 |
| SVMW-06 | 302.5 - 305 | 7/18/08 | -0.94 | 0.05 | 1.24 | 12.32 | 17,379 |
| SVMW-06 | 302.5 - 305 | 9/29/08 | -1.20 | 0.11 | 1.76 | 11.98 | 21,060 |
| SVMW-06 | 302.5 - 305 | 12/11/08 | 4.20 | 0.01 | 1.58 | 14.79 | 18,450 |
| SVMW-06 | 302.5 - 305 | 2/18/09 | -4.00 | 0.01 | 2.12 | 15.79 | 19,980 |
| SVMW-06 | 302.5 - 305 | 5/12/09 | 1.4 | 0.00 | 1.74 | 15.26 | 15,579 |
| SVMW-06 | 302.5 - 305 | 8/14/09 | -0.58 | 0.00 | 2.14 | 12.55 | 19,980 |
| SVMW-06 | 302.5 - 305 | 11/10/09 | -2.8 | 0.00 | 1.78 | 13.41 | 14,238 |
| SVMW-06 | 302.5 - 305 | 2/18/10 | 0.06 | 0.00 | 1.98 | 11.64 | 29,250 |
| SVMW-06 | 302.5 - 305 | 5/13/10 | -1.70 | 0.01 | 1.52 | 15.20 | 16,155 |
| SVMW-07 | 49.5 - 52 | 2/3/05 | -1.2 | 0.01 | 1.18 | 13.64 | 4,450 |
| SVMW-07 | 49.5 - 52 | 3/29/05 | 3.3 | 0.01 | 0.76 | 12.60 | 5,358 |
| SVMW-07 | 49.5 - 52 | 8/11/05 | 0.32 | 0.01 | 0.86 | 12.44 | 4,480 |
| SVMW-07 | 49.5 - 52 | 11/21/05 | -1.0 | 0.01 | 1.10 | 13.40 | 3,420 |
| SVMW-07 | 49.5 - 52 | 2/23/06 | -1.7 | 0.01 | 0.76 | 14.02 | 2,740 |
| SVMW-07 | 49.5 - 52 | 4/11/06 | -0.82 | 0.01 | 0.62 | 14.76 | 2,580 |
| SVMW-07 | 49.5 - 52 | 8/10/06 | -2.0 | 0.01 | 0.82 | 13.00 | 3,040 |
| SVMW-07 | 49.5 - 52 | 8/21/06 | -1.3 | 0.01 | 0.80 | 12.86 | 3,160 |
| SVMW-07 | 49.5 - 52 | 9/20/06 | 1.8 | 0.02 | 8.80 | 9.16 | 5,550 |
| SVMW-07 | 49.5 - 52 | 10/24/06 | 0.36 | 0.01 | 0.84 | 13.04 | 2,860 |
| SVMW-07 | 49.5 - 52 | 3/2/07 | 0.07 | 0.01 | 0.86 | 13.48 | 2,470 |
| SVMW-07 | 49.5 - 52 | 8/27/07 | -0.90 | 0.01 | 0.96 | 13.62 | 1,664 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-07 | 49.5 - 52 | 11/27/07 | -0.37 | 0.01 | 0.92 | 14.04 | 1,536 |
| SVMW-07 | 49.5 - 52 | 3/6/08 | -- | 0.00 | 0.84 | 14.30 | 1,145 |
| SVMW-07 | 49.5 - 52 | 5/12/08 | not accessible | 0.01 | 0.94 | 14.02 | 1,098 |
| SVMW-07 | 49.5 - 52 | 7/29/08 | not accessible | 0.01 | 7.44 | 10.94 | 3,280 |
| SVMW-07 | 49.5 - 52 | 9/29/08 | not accessible | 0.01 | 0.98 | 13.88 | 1,264 |
| SVMW-07 | 49.5 - 52 | 12/12/08 | | 0.00 | 0.86 | 15.10 | 852 |
| SVMW-07 | 49.5 - 52 | 2/19/09 | -3.50 | 0.00 | 0.66 | 16.88 | 526 |
| SVMW-07 | 49.5 - 52 | 5/13/09 | 0.02 | 0.00 | 0.68 | 17.05 | 508 |
| SVMW-07 | 49.5 - 52 | 8/19/09 | 0.38 | 0.00 | 6.98 | 11.50 | 2,350 |
| SVMW-07 | 49.5 - 52 | 11/9/09 | -1.0 | 0.00 | 0.90 | 15.83 | 433 |
| SVMW-07 | 49.5 - 52 | 2/18/10 | 0.62 | 0.00 | 1.08 | 15.89 | 1,692 |
| SVMW-07 | 49.5 - 52 | 5/13/10 | -2.4 | 0.00 | 0.58 | 18.16 | 280 |
| SVMW-07 | 95.5 - 98 | 2/3/05 | 0.34 | 0.02 | 8.28 | 8.24 | 7,770 |
| SVMW-07 | 95.5 - 98 | 3/29/05 | 0.4 | 0.02 | 8.38 | 8.58 | 7,440 |
| SVMW-07 | 95.5 - 98 | 8/11/05 | -0.14 | 0.02 | 8.22 | 8.80 | 6,400 |
| SVMW-07 | 95.5 - 98 | 11/21/05 | 0.46 | 0.01 | 7.86 | 9.22 | 5,680 |
| SVMW-07 | 95.5 - 98 | 2/23/06 | 0.24 | 0.01 | 2.46 | 16.92 | 628 |
| SVMW-07 | 95.5 - 98 | 4/11/06 | -0.45 | 0.01 | 4.24 | 15.76 | 2,780 |
| SVMW-07 | 95.5 - 98 | 8/10/06 | -0.22 | 0.02 | 8.74 | 9.24 | 5,670 |
| SVMW-07 | 95.5 - 98 | 8/21/06 | 0.26 | 0.02 | 8.64 | 9.20 | 5,730 |
| SVMW-07 | 95.5 - 98 | 9/20/06 | 0.75 | 0.01 | 0.88 | 12.96 | 2,920 |
| SVMW-07 | 95.5 - 98 | 10/24/06 | 0.4 | 0.02 | 8.90 | 9.42 | 5,600 |
| SVMW-07 | 95.5 - 98 | 3/2/07 | 0.01 | 0.02 | 8.78 | 10.22 | 5,440 |
| SVMW-07 | 95.5 - 98 | 8/27/07 | 0.04 | 0.03 | 8.52 | 9.92 | 4,470 |
| SVMW-07 | 95.5 - 98 | 11/27/07 | 0.6 | 0.01 | 8.80 | 10.40 | 4,360 |
| SVMW-07 | 95.5 - 98 | 3/6/08 | -- | 0.01 | 7.58 | 10.86 | 3,550 |
| SVMW-07 | 95.5 - 98 | 5/12/08 | not accessible | 0.02 | 8.50 | 10.48 | 3,980 |
| SVMW-07 | 95.5 - 98 | 7/29/08 | not accessible | 0.01 | 0.90 | 14.56 | 1,034 |
| SVMW-07 | 95.5 - 98 | 9/29/08 | not accessible | 0.01 | 8.28 | 10.52 | 3,660 |
| SVMW-07 | 95.5 - 98 | 12/12/08 | | 0.01 | 7.00 | 12.23 | 2,630 |
| SVMW-07 | 95.5 - 98 | 2/19/09 | 0.70 | 0.00 | 5.20 | 15.00 | 1,955 |
| SVMW-07 | 95.5 - 98 | 5/13/09 | 0.06 | 0.00 | 6.44 | 13.01 | 2,320 |
| SVMW-07 | 95.5 - 98 | 8/19/09 | 0.50 | 0.00 | 0.96 | 14.93 | 576 |
| SVMW-07 | 95.5 - 98 | 11/9/09 | -0.12 | 0.00 | 7.32 | 11.74 | 2,210 |
| SVMW-07 | 95.5 - 98 | 2/18/10 | 0.04 | 0.00 | 7.28 | 11.93 | 2,670 |
| SVMW-07 | 95.5 - 98 | 5/13/10 | -0.19 | 0.00 | 4.52 | 15.40 | 1,303 |
| SVMW-07 | 147.5 - 150 | 2/3/05 | 0.26 | 0.01 | 8.10 | 9.58 | 215 |
| SVMW-07 | 147.5 - 150 | 3/29/05 | 0.30 | 0.01 | 8.42 | 9.64 | 210 |
| SVMW-07 | 147.5 - 150 | 8/11/05 | 0.09 | 0.01 | 7.90 | 10.06 | 93 |
| SVMW-07 | 147.5 - 150 | 11/21/05 | 0.32 | 0.01 | 7.38 | 10.70 | 53 |
| SVMW-07 | 147.5 - 150 | 2/23/06 | 0.2 | 0.01 | 7.12 | 11.70 | 125 |
| SVMW-07 | 147.5 - 150 | 4/11/06 | -0.32 | 0.01 | 3.70 | 17.08 | 130 |
| SVMW-07 | 147.5 - 150 | 8/10/06 | -0.17 | 0.01 | 8.38 | 10.70 | 42 |
| SVMW-07 | 147.5 - 150 | 8/21/06 | 0.25 | 0.01 | 8.16 | 10.66 | 52 |
| SVMW-07 | 147.5 - 150 | 9/20/06 | 0.59 | 0.01 | 8.32 | 10.60 | 11 |
| SVMW-07 | 147.5 - 150 | 10/24/06 | 0.32 | 0.01 | 8.36 | 10.80 | 16 |
| SVMW-07 | 147.5 - 150 | 3/2/07 | 0.01 | 0.01 | 8.46 | 11.34 | 132 |
| SVMW-07 | 147.5 - 150 | 8/27/07 | 0.05 | 0.02 | 7.88 | 11.18 | 75 |
| SVMW-07 | 147.5 - 150 | 11/27/07 | 0.44 | 0.01 | 8.04 | 12.00 | 26 |
| SVMW-07 | 147.5 - 150 | 3/6/08 | -- | 0.00 | 0.26 | 21.60 | 0 |
| SVMW-07 | 147.5 - 150 | 5/12/08 | not accessible | 0.01 | 7.80 | 11.66 | 8 |
| SVMW-07 | 147.5 - 150 | 7/29/08 | not accessible | 0.01 | 6.72 | 11.94 | 2 |
| SVMW-07 | 147.5 - 150 | 9/29/08 | not accessible | 0.01 | 7.48 | 12.14 | 10 |
| SVMW-07 | 147.5 - 150 | 12/12/08 | | 0.00 | 6.44 | 13.22 | 16 |
| SVMW-07 | 147.5 - 150 | 2/19/09 | 0.11 | 0.00 | 4.72 | 15.49 | 55 |
| SVMW-07 | 147.5 - 150 | 5/13/09 | 0.04 | 0.00 | 5.36 | 19.5 | 107 |
| SVMW-07 | 147.5 - 150 | 8/19/09 | 1.1 | 0.00 | 6.26 | 12.98 | 132 |
| SVMW-07 | 147.5 - 150 | 11/9/09 | -0.04 | 0.00 | 6.36 | 13.37 | 93 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-07 | 147.5 - 150 | 2/18/10 | 0.04 | 0.00 | 6.48 | 13.02 | 1,059 |
| SVMW-07 | 147.5 - 150 | 5/13/10 | 0.04 | 0.00 | 4.30 | 15.93 | 176 |
| SVMW-08 | 50 - 52.5 | 7/16/04 | -- | 0.02 | 11.54 | 2.94 | 7,820 |
| SVMW-08 | 50 - 52.5 | 7/23/04 | -0.02 | 0.02 | 11.70 | 2.74 | 7,440 |
| SVMW-08 | 50 - 52.5 | 8/19/04 | -0.06 | 0.02 | 11.88 | 2.02 | 7,299 |
| SVMW-08 | 50 - 52.5 | 9/21/04 | -- | 0.02 | 3.32 | 13.18 | 7,480 |
| SVMW-08 | 50 - 52.5 | 2/3/05 | 0.25 | 0.03 | 8.58 | 7.56 | 7,210 |
| SVMW-08 | 50 - 52.5 | 3/31/05 | -0.1 | 0.02 | 11.96 | 3.22 | 8,990 |
| SVMW-08 | 50 - 52.5 | 8/11/05 | -0.08 | 0.02 | 12.74 | 2.12 | 6,580 |
| SVMW-08 | 50 - 52.5 | 11/22/05 | 0.12 | 0.01 | 12.06 | 3.60 | 5,390 |
| SVMW-08 | 50 - 52.5 | 2/24/06 | 0.04 | 0.02 | 12.34 | 2.86 | 7,350 |
| SVMW-08 | 50 - 52.5 | 4/11/06 | 0.43 | 0.01 | 4.04 | 14.68 | 1,286 |
| SVMW-08 | 50 - 52.5 | 8/9/06 | -0.16 | 0.01 | 3.76 | 14.86 | 986 |
| SVMW-08 | 50 - 52.5 | 8/21/06 | -0.24 | 0.01 | 3.40 | 15.88 | 771 |
| SVMW-08 | 50 - 52.5 | 9/21/06 | 0.03 | 0.03 | 5.90 | 11.24 | 8,200 |
| SVMW-08 | 50 - 52.5 | 10/24/06 | 0.04 | 0.02 | 9.46 | 7.90 | 6,470 |
| SVMW-08 | 50 - 52.5 | 2/28/07 | 0.18 | 0.04 | 9.74 | 7.22 | 10,350 |
| SVMW-08 | 50 - 52.5 | 8/23/07 | 0.60 | 0.02 | 6.52 | 11.62 | 4,160 |
| SVMW-08 | 50 - 52.5 | 11/28/07 | 0.22 | 0.01 | 0.40 | 20.72 | 26 |
| SVMW-08 | 50 - 52.5 | 3/6/08 | 0.49 | 0.02 | 6.96 | 11.24 | 4,690 |
| SVMW-08 | 50 - 52.5 | 5/12/08 | 0.10 | 0.01 | 9.90 | 6.96 | 6,280 |
| SVMW-08 | 50 - 52.5 | 7/17/08 | -0.06 | 0.01 | 4.34 | 13.64 | 586 |
| SVMW-08 | 50 - 52.5 | 9/29/08 | -1.00 | 0.01 | 7.12 | 11.74 | 1,435 |
| SVMW-08 | 50 - 52.5 | 12/11/08 | 0.38 | 0.00 | 6.52 | 11.32 | 1,760 |
| SVMW-08 | 50 - 52.5 | 2/19/09 | 0.04 | 0.00 | 0.28 | 21.58 | 125 |
| SVMW-08 | 50 - 52.5 | 5/12/09 | -0.12 | 0.00 | 0.62 | 20.61 | 40 |
| SVMW-08 | 50 - 52.5 | 8/14/09 | atm | 0.00 | 7.88 | 10.25 | 1,454 |
| SVMW-08 | 50 - 52.5 | 11/11/09 | 0.22 | 0.00 | 10.76 | 6.68 | 950 |
| SVMW-08 | 50 - 52.5 | 2/18/10 | 0.57 | 0.01 | 12.44 | 3.90 | 8,600 |
| SVMW-08 | 50 - 52.5 | 5/13/10 | 0.03 | 0.02 | 7.34 | 11.66 | 6,630 |
| SVMW-08 | 100 - 102.5 | 8/19/04 | -0.02 | 0.04 | 8.54 | 5.26 | 13,284 |
| SVMW-08 | 100 - 102.5 | 2/3/05 | 0.26 | 0.05 | 10.82 | 2.98 | 14,040 |
| SVMW-08 | 100 - 102.5 | 3/31/05 | -0.1 | 0.02 | 7.30 | 9.62 | 9,310 |
| SVMW-08 | 100 - 102.5 | 8/11/05 | -0.08 | 0.06 | 10.72 | 3.52 | 12,753 |
| SVMW-08 | 100 - 102.5 | 11/22/05 | atm | 0.01 | 7.32 | 10.44 | 7,170 |
| SVMW-08 | 100 - 102.5 | 2/24/06 | 0.04 | 0.03 | 7.02 | 10.06 | 8,690 |
| SVMW-08 | 100 - 102.5 | 4/11/06 | 0.52 | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 8/9/06 | -0.23 | 0.00 | 14.04 | 1.34 | 10,944 |
| SVMW-08 | 100 - 102.5 | 8/21/06 | -0.32 | 0.09 | 14.20 | 1.32 | 14,256 |
| SVMW-08 | 100 - 102.5 | 9/21/06 | 0.06 | 0.12 | 13.62 | 1.04 | 17,280 |
| SVMW-08 | 100 - 102.5 | 10/24/06 | 0.02 | 0.09 | 13.84 | 2.08 | 14,985 |
| SVMW-08 | 100 - 102.5 | 2/28/07 | 0.23 | 0.13 | 12.34 | 2.56 | 19,080 |
| SVMW-08 | 100 - 102.5 | 8/23/07 | 0.80 | 0.05 | 10.54 | 5.52 | 9,459 |
| SVMW-08 | 100 - 102.5 | 11/28/07 | atm | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 3/6/08 | 0.09 | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 12/11/08 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 2/19/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 5/12/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 8/14/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 11/11/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 2/18/10 | -- | -- | -- | -- | -- |
| SVMW-08 | 100 - 102.5 | 5/13/10 | sample port blocked | | | | |
| SVMW-08 | 250 - 252.5 | 7/16/04 | -- | 0.06 | 2.74 | 10.88 | 22,950 |
| SVMW-08 | 250 - 252.5 | 7/23/04 | -1.5 | 0.06 | 2.78 | 10.58 | 24,210 |
| SVMW-08 | 250 - 252.5 | 8/19/04 | -0.09 | 0.06 | 2.76 | 10.66 | 22,950 |
| SVMW-08 | 250 - 252.5 | 9/21/04 | -- | 0.02 | 1.72 | 15.28 | 6,700 |
| SVMW-08 | 250 - 252.5 | 2/3/05 | 0.02 | 0.00 | 0.70 | 19.74 | 234 |
| SVMW-08 | 250 - 252.5 | 3/31/05 | -2.1 | 0.07 | 3.16 | 10.80 | 24,030 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-08 | 250 - 252.5 | 8/11/05 | -0.10 | 0.03 | 1.68 | 15.30 | 7,850 |
| SVMW-08 | 250 - 252.5 | 11/22/05 | -1.5 | 0.04 | 2.90 | 13.22 | 15,930 |
| SVMW-08 | 250 - 252.5 | 2/24/06 | -2.0 | 0.03 | 2.60 | 14.06 | 13,410 |
| SVMW-08 | 250 - 252.5 | 4/11/06 | 1.5 | 0.06 | 3.02 | 13.66 | 10,710 |
| SVMW-08 | 250 - 252.5 | 8/9/06 | -2 | 0.00 | 0.14 | 20.88 | 74 |
| SVMW-08 | 250 - 252.5 | 8/21/06 | -1.6 | 0.01 | 0.28 | 20.80 | 136 |
| SVMW-08 | 250 - 252.5 | 9/21/06 | 0.3 | 0.04 | 2.60 | 14.90 | 8,595 |
| SVMW-08 | 250 - 252.5 | 10/24/06 | -0.41 | 0.01 | 1.94 | 18.12 | 1,479 |
| SVMW-08 | 250 - 252.5 | 2/28/07 | 0.9 | 0.03 | 2.72 | 14.58 | 9,180 |
| SVMW-08 | 250 - 252.5 | 8/23/07 | 0.90 | 0.02 | 2.60 | 15.20 | 6,360 |
| SVMW-08 | 250 - 252.5 | 11/28/07 | -1.5 | 0.01 | 0.12 | 21.42 | 19 |
| SVMW-08 | 250 - 252.5 | 3/6/08 | 2.60 | 0.01 | 1.96 | 18.04 | 4,220 |
| SVMW-08 | 250 - 252.5 | 5/12/08 | 0.72 | 0.00 | 1.80 | 16.32 | 2,230 |
| SVMW-08 | 250 - 252.5 | 7/17/08 | -0.72 | 0.01 | 1.60 | 18.28 | 631 |
| SVMW-08 | 250 - 252.5 | 9/29/08 | -0.88 | 0.01 | 6.82 | 11.92 | 2,810 |
| SVMW-08 | 250 - 252.5 | 12/11/08 | 4 | 0.00 | 6.92 | 11.08 | 3,240 |
| SVMW-08 | 250 - 252.5 | 2/19/09 | -3.8 | 0.00 | 0.00 | 22.29 | 85 |
| SVMW-08 | 250 - 252.5 | 5/12/09 | -0.54 | 0.00 | 0.48 | 20.72 | 40 |
| SVMW-08 | 250 - 252.5 | 8/14/09 | -0.22 | 0.00 | 3.98 | 15.72 | 570 |
| SVMW-08 | 250 - 252.5 | 11/11/09 | -2.4 | 0.00 | 6.00 | 13.22 | 1,748 |
| SVMW-08 | 250 - 252.5 | 2/18/10 | 1.30 | 0.00 | 2.24 | 17.18 | 2,550 |
| SVMW-08 | 250 - 252.5 | 5/13/10 | -1.6 | 0.01 | 1.46 | 19.58 | 2,040 |
| SVMW-08 | 266 - 268.5 | 8/19/04 | -- | 0.01 | 0.10 | 20.50 | 377 |
| SVMW-08 | 266 - 268.5 | 3/31/05 | atm | 0.00 | 0.04 | 20.56 | 201 |
| SVMW-08 | 266 - 268.5 | 8/11/05 | 0.12 | 0.01 | 0.10 | 20.08 | 210 |
| SVMW-08 | 266 - 268.5 | 11/22/05 | 1.2 | 0.01 | 0.12 | 22.72 | 114 |
| SVMW-08 | 266 - 268.5 | 2/24/06 | -- | 0.00 | 0.08 | 21.42 | 191 |
| SVMW-08 | 266 - 268.5 | 11/28/07 | 0.24 | 0.02 | 3.16 | 13.30 | 3,010 |
| SVMW-08 | 266 - 268.5 | 5/12/08 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 12/11/08 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 2/19/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 5/12/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 8/14/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 11/11/09 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 2/18/10 | -- | -- | -- | -- | -- |
| SVMW-08 | 266 - 268.5 | 5/13/10 | sample port blocked | | | | |
| SVMW-09 | 50 - 52.5 | 7/23/04 | atm | 0.03 | 11.04 | 3.74 | 10,953 |
| SVMW-09 | 50 - 52.5 | 8/19/04 | -0.06 | 0.04 | 10.88 | 3.96 | 7,695 |
| SVMW-09 | 50 - 52.5 | 9/21/04 | -- | 0.05 | 5.44 | 9.06 | >17000 |
| SVMW-09 | 50 - 52.5 | 2/3/05 | 0.27 | 0.03 | 3.86 | 0.80 | 5,270 |
| SVMW-09 | 50 - 52.5 | 3/31/05 | -0.1 | 0.03 | 11.00 | 4.82 | 11,880 |
| SVMW-09 | 50 - 52.5 | 8/11/05 | -0.12 | 0.03 | 12.26 | 2.42 | 9,870 |
| SVMW-09 | 50 - 52.5 | 11/22/05 | 0.17 | 0.00 | 0.00 | 20.90 | 27 |
| SVMW-09 | 50 - 52.5 | 2/24/06 | 0.07 | 0.02 | 11.82 | 3.34 | 9,340 |
| SVMW-09 | 50 - 52.5 | 4/11/06 | 0.35 | 0.01 | 4.44 | 13.64 | 2,120 |
| SVMW-09 | 50 - 52.5 | 8/9/06 | -0.19 | 0.04 | 12.46 | 4.52 | 10,107 |
| SVMW-09 | 50 - 52.5 | 8/21/06 | -0.26 | 0.02 | 9.54 | 7.86 | 1,240 |
| SVMW-09 | 50 - 52.5 | 9/21/06 | 0.03 | 0.05 | 6.74 | 10.16 | 11,700 |
| SVMW-09 | 50 - 52.5 | 10/24/06 | 0.06 | 0.05 | 10.32 | 5.92 | 13,140 |
| SVMW-09 | 50 - 52.5 | 2/28/07 | 0.16 | 0.04 | 10.56 | 5.94 | 10,350 |
| SVMW-09 | 50 - 52.5 | 3/16/07 | 0.26 | 0.02 | 9.76 | 7.12 | 9,020 |
| SVMW-09 | 50 - 52.5 | 8/23/07 | 0.10 | 0.04 | 7.48 | 9.00 | 13,941 |
| SVMW-09 | 50 - 52.5 | 11/28/07 | 0.21 | 0.00 | 0.62 | 20.32 | 62 |
| SVMW-09 | 50 - 52.5 | 3/6/08 | 0.48 | 0.02 | 8.12 | 9.16 | 8,130 |
| SVMW-09 | 50 - 52.5 | 5/12/08 | 0.10 | 0.02 | 10.34 | 6.54 | 7,630 |
| SVMW-09 | 50 - 52.5 | 7/17/08 | -0.1 | 0.01 | 7.26 | 9.62 | 2,540 |
| SVMW-09 | 50 - 52.5 | 9/29/08 | 0.05 | 0.01 | 9.32 | 8.66 | 4,360 |
| SVMW-09 | 50 - 52.5 | 12/11/08 | 0.40 | 0.00 | 6.68 | 10.01 | 4,890 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-09 | 50 - 52.5 | 2/19/09 | atm | 0.00 | 5.90 | 12.24 | 3,670 |
| SVMW-09 | 50 - 52.5 | 5/12/09 | -0.12 | 0.00 | 8.16 | 10.05 | 3,830 |
| SVMW-09 | 50 - 52.5 | 8/14/09 | ATM | 0.00 | 11.88 | 6.56 | 5,460 |
| SVMW-09 | 50 - 52.5 | 11/11/09 | 0.12 | 0.00 | 11.52 | 6.58 | 2,950 |
| SVMW-09 | 50 - 52.5 | 2/18/10 | 0.38 | 0.00 | 10.64 | 7.13 | 4,240 |
| SVMW-09 | 50 - 52.5 | 5/13/10 | -0.08 | 0.00 | 8.00 | 11.00 | 3,330 |
| SVMW-09 | 100 - 102.5 | 7/23/04 | -0.08 | 0.04 | 9.94 | 2.06 | 33,660 |
| SVMW-09 | 100 - 102.5 | 8/19/04 | -0.12 | 0.06 | 9.98 | 1.88 | 22,590 |
| SVMW-09 | 100 - 102.5 | 9/21/04 | -- | 0.07 | 6.82 | 6.78 | >22000 |
| SVMW-09 | 100 - 102.5 | 2/3/05 | 0.26 | 0.06 | 8.26 | 5.34 | 25,893 |
| SVMW-09 | 100 - 102.5 | 3/31/05 | -0.22 | 0.02 | 10.08 | 2.88 | 48,690 |
| SVMW-09 | 100 - 102.5 | 8/11/05 | -0.18 | 0.08 | 11.10 | 1.54 | 35,550 |
| SVMW-09 | 100 - 102.5 | 11/22/05 | 0.09 | 0.01 | 10.82 | 2.62 | 29,250 |
| SVMW-09 | 100 - 102.5 | 2/24/06 | -0.06 | 0.03 | 10.64 | 2.20 | 35,910 |
| SVMW-09 | 100 - 102.5 | 4/11/06 | 0.52 | 0.17 | 12.04 | 3.86 | 44,010 |
| SVMW-09 | 100 - 102.5 | 8/9/06 | -0.2 | 0.17 | 13.20 | 2.32 | 29,970 |
| SVMW-09 | 100 - 102.5 | 8/21/06 | -0.3 | 0.01 | 10.18 | 6.62 | 22,590 |
| SVMW-09 | 100 - 102.5 | 9/21/06 | 0.05 | 0.16 | 8.86 | 6.96 | 27,720 |
| SVMW-09 | 100 - 102.5 | 10/24/06 | atm | 0.18 | 11.50 | 4.14 | 29,880 |
| SVMW-09 | 100 - 102.5 | 2/28/07 | 0.2 | 0.19 | 11.16 | 4.18 | 21,870 |
| SVMW-09 | 100 - 102.5 | 3/16/07 | 0.22 | 0.14 | 10.64 | 6.20 | 25,650 |
| SVMW-09 | 100 - 102.5 | 8/23/07 | 0.11 | 0.13 | 9.50 | 6.40 | 20,790 |
| SVMW-09 | 100 - 102.5 | 11/28/07 | 0.2 | 0.01 | 1.36 | 19.52 | 791 |
| SVMW-09 | 100 - 102.5 | 3/6/08 | 0.64 | 0.20 | 9.82 | 7.74 | 27,540 |
| SVMW-09 | 100 - 102.5 | 5/12/08 | 0.13 | 0.17 | 10.66 | 5.68 | 17,010 |
| SVMW-09 | 100 - 102.5 | 7/17/08 | -0.15 | 0.05 | 7.88 | 7.88 | 12,870 |
| SVMW-09 | 100 - 102.5 | 9/29/08 | 0.04 | 0.12 | 10.82 | 6.36 | 19,440 |
| SVMW-09 | 100 - 102.5 | 12/11/08 | 0.66 | 0.02 | 9.30 | 7.80 | 17,082 |
| SVMW-09 | 100 - 102.5 | 2/19/09 | -0.09 | 0.01 | 7.72 | 10.77 | 16,164 |
| SVMW-09 | 100 - 102.5 | 5/12/09 | -0.12 | 0.02 | 6.80 | 12.01 | 10,575 |
| SVMW-09 | 100 - 102.5 | 8/14/09 | ATM | 0.03 | 13.94 | 3.57 | 26,730 |
| SVMW-09 | 100 - 102.5 | 11/11/09 | 0.16 | 0.04 | 15.42 | 2.86 | 21,330 |
| SVMW-09 | 100 - 102.5 | 2/18/10 | 0.44 | 0.00 | 13.06 | 3.95 | 4,450 |
| SVMW-09 | 100 - 102.5 | 5/13/10 | -0.20 | 0.04 | 13.30 | 5.64 | 30,060 |
| SVMW-09 | 250 - 252.5 | 7/23/04 | -1.5 | 0.06 | 3.04 | 10.36 | 23,040 |
| SVMW-09 | 250 - 252.5 | 8/19/04 | -0.18 | 0.07 | 2.96 | 10.56 | 23,130 |
| SVMW-09 | 250 - 252.5 | 9/21/04 | -- | 0.03 | 2.22 | 13.80 | >10000 |
| SVMW-09 | 250 - 252.5 | 2/3/05 | -1.8 | 0.01 | 1.14 | 20.62 | 2,350 |
| SVMW-09 | 250 - 252.5 | 3/31/05 | -2.1 | 0.08 | 3.96 | 7.24 | 34,380 |
| SVMW-09 | 250 - 252.5 | 8/11/05 | -0.28 | 0.09 | 3.16 | 11.38 | 18,630 |
| SVMW-09 | 250 - 252.5 | 11/22/05 | -1.3 | 0.01 | 1.76 | 17.52 | 4,770 |
| SVMW-09 | 250 - 252.5 | 2/24/06 | -2.2 | 0.03 | 2.70 | 13.79 | 11,547 |
| SVMW-09 | 250 - 252.5 | 4/11/06 | 1.4 | 0.06 | 3.16 | 12.88 | 17,064 |
| SVMW-09 | 250 - 252.5 | 8/9/06 | -1.9 | 0.01 | 7.64 | 10.72 | 7,497 |
| SVMW-09 | 250 - 252.5 | 8/21/06 | -1.7 | 0.01 | 0.88 | 19.92 | 1,404 |
| SVMW-09 | 250 - 252.5 | 9/21/06 | 0.24 | 0.08 | 3.18 | 14.14 | 13,815 |
| SVMW-09 | 250 - 252.5 | 10/24/06 | -0.43 | 0.02 | 2.40 | 16.64 | 6,300 |
| SVMW-09 | 250 - 252.5 | 2/28/07 | 0.85 | 0.05 | 2.92 | 14.24 | 11,358 |
| SVMW-09 | 250 - 252.5 | 3/16/07 | -2.6 | 0.02 | 3.54 | 16.60 | 6,420 |
| SVMW-09 | 250 - 252.5 | 8/23/07 | 0.15 | 0.04 | 2.94 | 14.58 | 9,540 |
| SVMW-09 | 250 - 252.5 | 11/28/07 | -1.5 | 0.00 | 0.18 | 21.44 | 211 |
| SVMW-09 | 250 - 252.5 | 3/6/08 | 2.50 | 0.03 | 2.12 | 17.50 | 9,680 |
| SVMW-09 | 250 - 252.5 | 5/12/08 | 0.68 | 0.02 | 1.90 | 16.24 | 6,310 |
| SVMW-09 | 250 - 252.5 | 7/17/08 | -0.82 | 0.01 | 1.22 | 18.42 | 1,598 |
| SVMW-09 | 250 - 252.5 | 9/29/08 | -0.93 | 0.01 | 3.34 | 16.46 | 5,700 |
| SVMW-09 | 250 - 252.5 | 12/11/08 | 4.00 | 0.00 | 2.88 | 16.62 | 4,870 |
| SVMW-09 | 250 - 252.5 | 2/19/09 | -4.00 | 0.00 | 0.48 | 21.17 | 1,140 |
| SVMW-09 | 250 - 252.5 | 5/12/09 | -0.66 | 0.00 | 0.84 | 20.41 | 909 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-09 | 250 - 252.5 | 8/14/09 | -0.36 | 0.00 | 7.20 | 12.27 | 8,110 |
| SVMW-09 | 250 - 252.5 | 11/11/09 | -2.1 | 0.00 | 2.70 | 16.87 | 4,830 |
| SVMW-09 | 250 - 252.5 | 2/18/10 | 1.02 | 0.00 | 2.98 | 15.65 | 7,740 |
| SVMW-09 | 250 - 252.5 | 5/13/10 | -2.0 | 0.00 | 1.60 | 18.96 | 3,480 |
| SVMW-09 | 266 - 268.5 | 7/23/04 | -1.6 | 0.04 | 2.12 | 10.94 | 31,770 |
| SVMW-09 | 266 - 268.5 | 8/19/04 | -0.22 | 0.05 | 1.90 | 12.28 | 29,610 |
| SVMW-09 | 266 - 268.5 | 9/21/04 | -- | 0.03 | 2.12 | 15.30 | >11000 |
| SVMW-09 | 266 - 268.5 | 2/3/05 | -1.8 | 0.00 | 0.16 | 22.08 | 389 |
| SVMW-09 | 266 - 268.5 | 3/31/05 | -2.2 | 0.06 | 3.08 | 8.54 | 41,940 |
| SVMW-09 | 266 - 268.5 | 8/11/05 | -0.30 | 0.05 | 3.10 | 7.84 | 39,510 |
| SVMW-09 | 266 - 268.5 | 11/22/05 | -1.8 | 0.00 | 10.92 | 4.50 | 30,600 |
| SVMW-09 | 266 - 268.5 | 2/24/06 | -2.2 | 0.04 | 2.22 | 13.16 | 21,690 |
| SVMW-09 | 266 - 268.5 | 4/11/06 | 1.3 | 0.14 | 3.20 | 11.98 | 33,660 |
| SVMW-09 | 266 - 268.5 | 8/9/06 | -1.8 | 0.06 | 8.12 | 10.08 | 7,236 |
| SVMW-09 | 266 - 268.5 | 8/21/06 | -1.6 | 0.01 | 1.30 | 19.52 | 1,735 |
| SVMW-09 | 266 - 268.5 | 9/21/06 | 0.23 | 0.06 | 2.62 | 15.92 | 13,365 |
| SVMW-09 | 266 - 268.5 | 10/24/06 | -0.42 | 0.02 | 2.36 | 17.74 | 5,300 |
| SVMW-09 | 266 - 268.5 | 2/28/07 | 0.87 | 0.08 | 2.36 | 15.12 | 15,570 |
| SVMW-09 | 266 - 268.5 | 3/16/07 | -2.6 | 0.00 | 1.10 | 20.00 | 2,720 |
| SVMW-09 | 266 - 268.5 | 8/23/07 | 0.10 | 0.07 | 4.98 | 12.72 | 13,329 |
| SVMW-09 | 266 - 268.5 | 11/28/07 | -1.4 | 0.00 | 0.10 | 21.60 | 346 |
| SVMW-09 | 266 - 268.5 | 3/6/08 | 2.40 | 0.03 | 1.40 | 19.26 | 9,873 |
| SVMW-09 | 266 - 268.5 | 5/12/08 | 0.66 | 0.01 | 0.98 | 18.12 | 4,920 |
| SVMW-09 | 266 - 268.5 | 7/17/08 | -0.82 | 0.00 | 1.28 | 18.78 | 1,941 |
| SVMW-09 | 266 - 268.5 | 9/29/08 | -0.90 | 0.01 | 3.12 | 17.00 | 4,610 |
| SVMW-09 | 266 - 268.5 | 12/11/08 | 3.90 | 0.00 | 3.14 | 16.52 | 4,630 |
| SVMW-09 | 266 - 268.5 | 2/19/09 | -4.00 | 0.00 | 0.10 | 21.70 | 486 |
| SVMW-09 | 266 - 268.5 | 5/12/09 | -0.68 | 0.00 | 0.60 | 20.38 | 1,163 |
| SVMW-09 | 266 - 268.5 | 8/14/09 | -0.38 | 0.00 | 8.36 | 10.58 | 8,580 |
| SVMW-09 | 266 - 268.5 | 11/11/09 | -2.0 | 0.01 | 3.62 | 15.91 | 14,688 |
| SVMW-09 | 266 - 268.5 | 2/18/10 | 1.02 | 0.00 | 3.36 | 15.30 | 22,770 |
| SVMW-09 | 266 - 268.5 | 5/13/10 | -2.0 | 0.01 | 1.96 | 18.60 | 16,965 |
| SVMW-10 | 50 - 52.5 | 7/23/04 | 0.14 | 0.02 | 10.44 | 4.08 | 42,480 |
| SVMW-10 | 50 - 52.5 | 8/19/04 | -0.11 | 0.02 | 10.82 | 3.72 | 41,400 |
| SVMW-10 | 50 - 52.5 | 2/3/05 | 0.25 | 0.05 | 9.32 | 4.80 | 40,140 |
| SVMW-10 | 50 - 52.5 | 3/31/05 | -0.2 | 0.06 | 11.64 | 4.08 | 36,810 |
| SVMW-10 | 50 - 52.5 | 8/11/05 | -0.18 | 0.03 | 11.42 | 2.74 | 42,120 |
| SVMW-10 | 50 - 52.5 | 11/22/05 | 0.12 | 0.03 | 11.54 | 3.88 | 38,500 |
| SVMW-10 | 50 - 52.5 | 2/24/06 | -0.02 | 0.03 | 11.52 | 3.78 | 35,370 |
| SVMW-10 | 50 - 52.5 | 4/11/06 | 0.38 | 0.08 | 4.54 | 14.22 | 25,560 |
| SVMW-10 | 50 - 52.5 | 8/9/06 | -0.19 | 0.18 | 13.62 | 3.80 | 41,580 |
| SVMW-10 | 50 - 52.5 | 8/21/06 | -0.34 | 0.19 | 13.98 | 3.52 | 45,000 |
| SVMW-10 | 50 - 52.5 | 9/21/06 | 0.04 | 0.17 | 7.72 | 8.74 | 30,240 |
| SVMW-10 | 50 - 52.5 | 10/24/06 | atm | 0.18 | 11.86 | 5.08 | 40,680 |
| SVMW-10 | 50 - 52.5 | 3/2/07 | 0.17 | 0.10 | 5.52 | 12.02 | 9,900 |
| SVMW-10 | 50 - 52.5 | 3/16/07 | 0.25 | 0.16 | 11.56 | 5.30 | 32,400 |
| SVMW-10 | 50 - 52.5 | 8/23/07 | 0.08 | 0.19 | 10.12 | 6.74 | 28,800 |
| SVMW-10 | 50 - 52.5 | 11/28/07 | 0.9 | 0.03 | 2.22 | 18.38 | 8,109 |
| SVMW-10 | 50 - 52.5 | 3/6/08 | 0.50 | 0.08 | 4.58 | 12.40 | 15,570 |
| SVMW-10 | 50 - 52.5 | 5/12/08 | 0.10 | 0.19 | 11.62 | 5.40 | 25,470 |
| SVMW-10 | 50 - 52.5 | 7/17/08 | -0.1 | 0.01 | 8.66 | 7.68 | 22,230 |
| SVMW-10 | 50 - 52.5 | 9/29/08 | 0.01 | 0.16 | 9.96 | 10.64 | 27,540 |
| SVMW-10 | 50 - 52.5 | 12/11/08 | 0.39 | 0.03 | 9.74 | 8.23 | 19,530 |
| SVMW-10 | 50 - 52.5 | 2/19/09 | -0.13 | 0.01 | 7.80 | 12.12 | 15,930 |
| SVMW-10 | 50 - 52.5 | 5/12/09 | -0.09 | 0.02 | 9.04 | 10.47 | 19,350 |
| SVMW-10 | 50 - 52.5 | 8/14/09 | ATM | 0.03 | 14.04 | 7.54 | 38,610 |
| SVMW-10 | 50 - 52.5 | 11/11/09 | -0.01 | 0.04 | 15.00 | 4.91 | 42,840 |
| SVMW-10 | 50 - 52.5 | 2/18/10 | 0.29 | 0.00 | 11.34 | 6.14 | 38,160 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-10 | 50 - 52.5 | 5/13/10 | -0.10 | 0.03 | 9.50 | 9.62 | 37,620 |
| SVMW-10 | 100 - 102.5 | 7/23/04 | 0.18 | 0.01 | 10.26 | 0.80 | 50,670 |
| SVMW-10 | 100 - 102.5 | 8/19/04 | -0.15 | 0.02 | 10.38 | 0.78 | 54,630 |
| SVMW-10 | 100 - 102.5 | 2/3/05 | 0.31 | 0.05 | 9.50 | 2.82 | 47,430 |
| SVMW-10 | 100 - 102.5 | 3/31/05 | -0.35 | 0.05 | 11.02 | 1.44 | 56,430 |
| SVMW-10 | 100 - 102.5 | 8/11/05 | -0.20 | 0.02 | 11.04 | 0.42 | 49,770 |
| SVMW-10 | 100 - 102.5 | 11/22/05 | atm | 0.03 | 10.78 | 2.54 | 47,700 |
| SVMW-10 | 100 - 102.5 | 2/24/06 | -0.06 | 0.02 | 10.66 | 1.82 | 41,490 |
| SVMW-10 | 100 - 102.5 | 4/11/06 | 0.50 | 0.17 | 13.64 | 1.32 | 66,690 |
| SVMW-10 | 100 - 102.5 | 8/9/06 | -0.88 | 0.20 | 13.64 | 1.28 | 53,910 |
| SVMW-10 | 100 - 102.5 | 8/21/06 | -0.43 | 0.02 | 13.94 | 0.94 | 57,240 |
| SVMW-10 | 100 - 102.5 | 9/21/06 | 0.05 | 0.19 | 9.34 | 6.02 | 32,040 |
| SVMW-10 | 100 - 102.5 | 10/24/06 | atm | 0.22 | 12.76 | 3.06 | 44,550 |
| SVMW-10 | 100 - 102.5 | 3/2/07 | 0.25 | 0.12 | 7.80 | 9.36 | 16,560 |
| SVMW-10 | 100 - 102.5 | 3/16/07 | 0.30 | 0.20 | 12.06 | 3.88 | 38,430 |
| SVMW-10 | 100 - 102.5 | 8/23/07 | 0.10 | 0.20 | 10.98 | 4.54 | 36,270 |
| SVMW-10 | 100 - 102.5 | 11/28/07 | 0.25 | 0.03 | 1.96 | 18.04 | 7,641 |
| SVMW-10 | 100 - 102.5 | 3/6/08 | 0.68 | 0.22 | 8.94 | 7.36 | 30,960 |
| SVMW-10 | 100 - 102.5 | 5/12/08 | 0.12 | 0.25 | 12.28 | 3.72 | 36,810 |
| SVMW-10 | 100 - 102.5 | 7/17/08 | -0.12 | 0.10 | 9.24 | 5.96 | 28,350 |
| SVMW-10 | 100 - 102.5 | 9/29/08 | 0.01 | 0.22 | 11.10 | 5.84 | 32,850 |
| SVMW-10 | 100 - 102.5 | 12/11/08 | 0.56 | 0.01 | 3.64 | 15.76 | 7,350 |
| SVMW-10 | 100 - 102.5 | 2/19/09 | -0.18 | 0.02 | 9.46 | 10.31 | 43,920 |
| SVMW-10 | 100 - 102.5 | 5/12/09 | -0.09 | 0.04 | 10.76 | 7.91 | 22,680 |
| SVMW-10 | 100 - 102.5 | 8/14/09 | ATM | 0.04 | 15.76 | 2.94 | 49,860 |
| SVMW-10 | 100 - 102.5 | 11/11/09 | -0.06 | 0.04 | 17.12 | 2.18 | 54,090 |
| SVMW-10 | 100 - 102.5 | 2/18/10 | 0.32 | 0.00 | 15.80 | 1.45 | 44,010 |
| SVMW-10 | 100 - 102.5 | 5/13/10 | -0.19 | 0.05 | 11.80 | 7.57 | 52,740 |
| SVMW-10 | 150 - 152.5 | 7/23/04 | -1.2 | 0.08 | 6.04 | 3.02 | 30,600 |
| SVMW-10 | 150 - 152.5 | 8/19/04 | -0.08 | 0.08 | 6.54 | 2.88 | 31,140 |
| SVMW-10 | 150 - 152.5 | 2/3/05 | -2.0 | 0.06 | 5.46 | 12.36 | 28,170 |
| SVMW-10 | 150 - 152.5 | 3/31/05 | -2.3 | 0.08 | 6.68 | 2.52 | 44,730 |
| SVMW-10 | 150 - 152.5 | 8/11/05 | -0.28 | 0.08 | 5.42 | 3.88 | 32,310 |
| SVMW-10 | 150 - 152.5 | 11/22/05 | -1.0 | 0.07 | 5.76 | 4.42 | 31,300 |
| SVMW-10 | 150 - 152.5 | 2/24/06 | -2.4 | 0.06 | 5.46 | 5.16 | 31,320 |
| SVMW-10 | 150 - 152.5 | 4/11/06 | 1.4 | 0.21 | 6.90 | 4.76 | 39,510 |
| SVMW-10 | 150 - 152.5 | 8/9/06 | -2 | 0.07 | 2.98 | 17.80 | 14,886 |
| SVMW-10 | 150 - 152.5 | 8/21/06 | -1.8 | 0.01 | 0.84 | 19.80 | 5,550 |
| SVMW-10 | 150 - 152.5 | 9/21/06 | 0.27 | 0.15 | 5.58 | 10.40 | 20,520 |
| SVMW-10 | 150 - 152.5 | 10/24/06 | -0.42 | 0.03 | 2.62 | 17.18 | 8,080 |
| SVMW-10 | 150 - 152.5 | 3/2/07 | 0.94 | 0.04 | 2.76 | 14.82 | 8,262 |
| SVMW-10 | 150 - 152.5 | 3/16/07 | -2.5 | 0.01 | 0.70 | 20.34 | 4,150 |
| SVMW-10 | 150 - 152.5 | 8/23/07 | 0.02 | 0.19 | 8.44 | 6.92 | 28,080 |
| SVMW-10 | 150 - 152.5 | 11/28/07 | -1.4 | 0.01 | 0.10 | 20.60 | 2,690 |
| SVMW-10 | 150 - 152.5 | 3/6/08 | 2.60 | 0.16 | 7.00 | 9.84 | 26,910 |
| SVMW-10 | 150 - 152.5 | 5/12/08 | 0.65 | 0.07 | 4.76 | 12.04 | 13,563 |
| SVMW-10 | 150 - 152.5 | 7/17/08 | -0.64 | 0.02 | 3.42 | 15.34 | 9,100 |
| SVMW-10 | 150 - 152.5 | 9/29/08 | -1.10 | 0.04 | 3.69 | 16.76 | 9,640 |
| SVMW-10 | 150 - 152.5 | 12/11/08 | 4.20 | 0.02 | 11.32 | 5.97 | 23,580 |
| SVMW-10 | 150 - 152.5 | 2/19/09 | -4.00 | 0.00 | 0.14 | 23.70 | 1,352 |
| SVMW-10 | 150 - 152.5 | 5/12/09 | 0.58 | 0.02 | 7.92 | 11.38 | 31,500 |
| SVMW-10 | 150 - 152.5 | 8/14/09 | ATM | 0.04 | 11.68 | 8.63 | 34,650 |
| SVMW-10 | 150 - 152.5 | 11/11/09 | -2.0 | 0.06 | 8.64 | 7.80 | 37,440 |
| SVMW-10 | 150 - 152.5 | 2/18/10 | 0.91 | 0.01 | 8.64 | 6.87 | 33,210 |
| SVMW-10 | 150 - 152.5 | 5/13/10 | -1.80 | 0.05 | 7.28 | 9.92 | 34,650 |
| SVMW-10 | 250 - 252.5 | 7/23/04 | -1.6 | 0.01 | 2.54 | 8.88 | 46,170 |
| SVMW-10 | 250 - 252.5 | 8/19/04 | -0.45 | 0.02 | 2.70 | 8.44 | 43,470 |
| SVMW-10 | 250 - 252.5 | 2/3/05 | -2.2 | 0.05 | 6.26 | 9.88 | 36,000 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-10 | 250 - 252.5 | 3/31/05 | -2.1 | 0.08 | 6.20 | 2.12 | 45,540 |
| SVMW-10 | 250 - 252.5 | 8/11/05 | -0.46 | 0.02 | 3.02 | 8.68 | 42,570 |
| SVMW-10 | 250 - 252.5 | 11/22/05 | -2.6 | 0.04 | 3.14 | 10.30 | 42,900 |
| SVMW-10 | 250 - 252.5 | 2/24/06 | -2.0 | 0.03 | 2.76 | 12.02 | 35,010 |
| SVMW-10 | 250 - 252.5 | 4/11/06 | 0.84 | 0.17 | 3.98 | 11.32 | 48,060 |
| SVMW-10 | 250 - 252.5 | 8/9/06 | -2.0 | 0.10 | 4.72 | 15.46 | 1,215 |
| SVMW-10 | 250 - 252.5 | 8/21/06 | -1.7 | 0.01 | 1.36 | 19.02 | 5,360 |
| SVMW-10 | 250 - 252.5 | 9/21/06 | 0.1 | 0.17 | 4.14 | 12.80 | 28,260 |
| SVMW-10 | 250 - 252.5 | 10/24/06 | -0.47 | 0.06 | 3.62 | 14.36 | 11,844 |
| SVMW-10 | 250 - 252.5 | 3/2/07 | 0.65 | 0.08 | 2.92 | 14.52 | 15,867 |
| SVMW-10 | 250 - 252.5 | 3/16/07 | -2.7 | 0.00 | 2.62 | 16.78 | 8,172 |
| SVMW-10 | 250 - 252.5 | 8/23/07 | -0.03 | 0.16 | 4.32 | 13.04 | 28,800 |
| SVMW-10 | 250 - 252.5 | 11/28/07 | -1.5 | 0.01 | 0.18 | 20.46 | 3,680 |
| SVMW-10 | 250 - 252.5 | 3/6/08 | 2.50 | 0.16 | 4.16 | 13.08 | 25,470 |
| SVMW-10 | 250 - 252.5 | 5/12/08 | 0.54 | 0.14 | 3.88 | 13.50 | 20,700 |
| SVMW-10 | 250 - 252.5 | 7/17/08 | -0.86 | 0.03 | 3.12 | 17.86 | 9,990 |
| SVMW-10 | 250 - 252.5 | 9/29/08 | -1.00 | 0.04 | 3.02 | 17.48 | 9,297 |
| SVMW-10 | 250 - 252.5 | 12/11/08 | 3.90 | 0.00 | 3.32 | 16.69 | 6,800 |
| SVMW-10 | 250 - 252.5 | 2/19/09 | -4.50 | 0.00 | 0.24 | 23.51 | 1,572 |
| SVMW-10 | 250 - 252.5 | 5/12/09 | 0.77 | 0.01 | 1.66 | 19.18 | 5,100 |
| SVMW-10 | 250 - 252.5 | 8/14/09 | ATM | 0.02 | 9.66 | 10.60 | 33,300 |
| SVMW-10 | 250 - 252.5 | 11/11/09 | -2.0 | 0.03 | 4.48 | 15.41 | 27,270 |
| SVMW-10 | 250 - 252.5 | 2/18/10 | 0.70 | 0.02 | 3.92 | 12.78 | 24,030 |
| SVMW-10 | 250 - 252.5 | 5/13/10 | -2.20 | 0.01 | 2.72 | 17.03 | 20,070 |
| SVMW-11 | 50 - 52.5 | 7/23/04 | 0.29 | 0.04 | 13.68 | 0.40 | 19,620 |
| SVMW-11 | 50 - 52.5 | 8/19/04 | -0.07 | 0.04 | 14.18 | 0.22 | 19,620 |
| SVMW-11 | 50 - 52.5 | 2/3/05 | 0.02 | 0.05 | 12.32 | 0.66 | 30,420 |
| SVMW-11 | 50 - 52.5 | 3/31/05 | -0.2 | 0.04 | 14.08 | 0.84 | 28,980 |
| SVMW-11 | 50 - 52.5 | 8/11/05 | 0.08 | 0.05 | 13.98 | 0.04 | 20,790 |
| SVMW-11 | 50 - 52.5 | 11/22/05 | atm | 0.02 | 13.92 | 1.30 | 20,850 |
| SVMW-11 | 50 - 52.5 | 2/24/06 | -0.01 | 0.02 | 13.88 | 1.50 | 19,260 |
| SVMW-11 | 50 - 52.5 | 4/11/06 | 0.4 | 0.01 | 2.94 | 15.90 | 2,660 |
| SVMW-11 | 50 - 52.5 | 8/9/06 | -0.23 | 0.13 | 16.58 | 0.48 | 23,670 |
| SVMW-11 | 50 - 52.5 | 8/21/06 | -0.29 | 0.13 | 16.88 | 0.32 | 27,270 |
| SVMW-11 | 50 - 52.5 | 9/20/06 | 0.06 | 0.13 | 13.62 | 3.10 | 23,670 |
| SVMW-11 | 50 - 52.5 | 10/24/06 | atm | 0.15 | 15.14 | 0.74 | 29,880 |
| SVMW-11 | 50 - 52.5 | 3/2/07 | 0.17 | 0.07 | 7.86 | 9.62 | 15,804 |
| SVMW-11 | 50 - 52.5 | 3/16/07 | 0.28 | 0.04 | 8.60 | 8.54 | 12,150 |
| SVMW-11 | 50 - 52.5 | 8/23/07 | 0.09 | 0.07 | 9.62 | 7.34 | 11,970 |
| SVMW-11 | 50 - 52.5 | 11/28/07 | 0.19 | 0.01 | 0.20 | 21.12 | 220 |
| SVMW-11 | 50 - 52.5 | 3/6/08 | 0.48 | 0.11 | 10.34 | 6.68 | 24,660 |
| SVMW-11 | 50 - 52.5 | 5/12/08 | 0.08 | 0.09 | 12.70 | 4.54 | 18,090 |
| SVMW-11 | 50 - 52.5 | 7/17/08 | -0.1 | 0.06 | 13.96 | 0.02 | 17,379 |
| SVMW-11 | 50 - 52.5 | 9/29/08 | 0.07 | 0.08 | 18.00 | -- | 16,038 |
| SVMW-11 | 50 - 52.5 | 12/11/08 | 0.42 | 0.02 | 15.94 | 2.02 | 18,630 |
| SVMW-11 | 50 - 52.5 | 2/18/09 | -0.14 | 0.00 | 8.02 | 10.64 | 19,350 |
| SVMW-11 | 50 - 52.5 | 5/12/09 | 0.46 | 0.01 | 12.46 | 8.19 | 13,635 |
| SVMW-11 | 50 - 52.5 | 8/14/09 | -0.03 | 0.00 | 15.26 | 4.20 | 9,470 |
| SVMW-11 | 50 - 52.5 | 11/11/09 | -0.04 | 0.02 | 16.54 | 0.66 | 9,930 |
| SVMW-11 | 50 - 52.5 | 2/16/10 | 0.20 | 0.00 | 15.98 | 0.68 | 29,250 |
| SVMW-11 | 50 - 52.5 | 5/13/10 | -0.10 | 0.00 | 8.50 | 8.00 | 8,800 |
| SVMW-11 | 100 - 102.5 | 7/23/04 | 0.34 | 0.00 | 10.28 | 0.52 | 52,830 |
| SVMW-11 | 100 - 102.5 | 8/19/04 | -0.10 | 0.00 | 10.70 | 0.22 | 50,940 |
| SVMW-11 | 100 - 102.5 | 2/3/05 | -0.01 | 0.00 | 10.90 | 0.80 | 56,700 |
| SVMW-11 | 100 - 102.5 | 3/31/05 | -0.38 | 0.03 | 11.76 | 0.56 | 55,890 |
| SVMW-11 | 100 - 102.5 | 8/11/05 | -0.04 | 0.07 | 10.20 | 3.40 | 24,840 |
| SVMW-11 | 100 - 102.5 | 11/22/05 | atm | 0.03 | 11.34 | 1.28 | 44,700 |
| SVMW-11 | 100 - 102.5 | 2/24/06 | -0.1 | 0.01 | 10.82 | 1.94 | 39,240 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-11 | 100 - 102.5 | 4/11/06 | 0.55 | 0.16 | 13.96 | 0.68 | 59,850 |
| SVMW-11 | 100 - 102.5 | 8/9/06 | -0.28 | 0.18 | 14.02 | 0.38 | 40,860 |
| SVMW-11 | 100 - 102.5 | 8/21/06 | -0.34 | 0.18 | 14.20 | 0.28 | 56,250 |
| SVMW-11 | 100 - 102.5 | 9/20/06 | 0.06 | 0.20 | 13.22 | 1.90 | 39,600 |
| SVMW-11 | 100 - 102.5 | 10/24/06 | -0.01 | 0.19 | 14.06 | 0.78 | 51,120 |
| SVMW-11 | 100 - 102.5 | 3/2/07 | 0.23 | 0.13 | 9.58 | 6.88 | 20,250 |
| SVMW-11 | 100 - 102.5 | 3/16/07 | 0.38 | 0.11 | 8.68 | 7.60 | 26,550 |
| SVMW-11 | 100 - 102.5 | 8/23/07 | 0.11 | 0.17 | 11.56 | 4.36 | 24,030 |
| SVMW-11 | 100 - 102.5 | 11/28/07 | 0.24 | 0.01 | 0.24 | 21.26 | 2,820 |
| SVMW-11 | 100 - 102.5 | 3/6/08 | 0.70 | 0.21 | 12.54 | 3.70 | 33,390 |
| SVMW-11 | 100 - 102.5 | 5/12/08 | 0.12 | 0.21 | 14.40 | 1.92 | 26,460 |
| SVMW-11 | 100 - 102.5 | 7/17/08 | -0.13 | 0.08 | 12.02 | 0.00 | 33,390 |
| SVMW-11 | 100 - 102.5 | 9/29/08 | 0.10 | 0.18 | 15.42 | -- | 45,450 |
| SVMW-11 | 100 - 102.5 | 12/11/08 | 0.62 | 0.02 | 15.76 | 1.95 | 39,060 |
| SVMW-11 | 100 - 102.5 | 2/18/09 | -0.19 | 0.02 | 14.39 | 3.50 | 26,460 |
| SVMW-11 | 100 - 102.5 | 5/12/09 | 0.58 | 0.02 | 10.68 | 8.52 | 30,870 |
| SVMW-11 | 100 - 102.5 | 8/14/09 | -0.10 | 0.00 | 16.84 | 1.15 | 57,150 |
| SVMW-11 | 100 - 102.5 | 11/11/09 | -0.24 | 0.04 | 17.76 | 0.57 | 58,770 |
| SVMW-11 | 100 - 102.5 | 2/16/10 | 0.22 | 0.00 | 15.86 | 0.53 | 53,640 |
| SVMW-11 | 100 - 102.5 | 5/13/10 | -0.22 | 0.02 | 17.16 | 0.83 | 53,280 |
| SVMW-11 | 250 - 252.5 | 7/23/04 | -1.3 | -0.02 | 5.34 | 4.96 | 18,090 |
| SVMW-11 | 250 - 252.5 | 7/23/04 | -1.2 | 0.01 | 6.08 | 5.36 | 18,090 |
| SVMW-11 | 250 - 252.5 | 8/19/04 | -0.52 | -0.02 | 5.46 | 5.10 | 57,060 |
| SVMW-11 | 250 - 252.5 | 8/19/04 | -0.29 | -0.01 | 5.58 | 5.26 | 56,070 |
| SVMW-11 | 250 - 252.5 | 2/3/05 | 0.03 | 0.01 | 8.88 | 6.64 | 26,910 |
| SVMW-11 | 250 - 252.5 | 2/3/05 | 0.04 | 0.05 | 8.92 | 6.14 | 29,520 |
| SVMW-11 | 250 - 252.5 | 3/31/05 | -2.4 | 0.04 | 8.16 | 1.84 | 52,830 |
| SVMW-11 | 250 - 252.5 | 3/31/05 | -2.0 | 0.06 | 5.78 | 8.22 | 31,320 |
| SVMW-11 | 250 - 252.5 | 8/11/05 | -0.45 | 0.02 | 7.00 | 3.18 | 42,300 |
| SVMW-11 | 250 - 252.5 | 8/11/05 | -0.18 | 0.05 | 7.06 | 4.00 | 35,640 |
| SVMW-11 | 250 - 252.5 | 11/22/05 | -2.1 | 0.00 | 6.08 | 6.42 | 40,590 |
| SVMW-11 | 250 - 252.5 | 11/22/05 | -1.8 | 0.00 | 0.06 | 20.84 | 186 |
| SVMW-11 | 250 - 252.5 | 2/24/06 | -2.4 | 0.02 | 6.20 | 8.80 | 44,100 |
| SVMW-11 | 250 - 252.5 | 2/24/06 | -2.0 | 0.04 | 6.80 | 9.78 | 31,230 |
| SVMW-11 | 250 - 252.5 | 4/11/06 | 0.86 | 0.13 | 8.42 | 7.86 | 65,520 |
| SVMW-11 | 250 - 252.5 | 4/11/06 | 0.30 | 0.15 | 6.92 | 11.18 | 49,050 |
| SVMW-11 | 250 - 252.5 | 8/9/06 | -2.1 | 0.10 | 7.76 | 11.10 | 17,820 |
| SVMW-11 | 250 - 252.5 | 8/9/06 | -2.0 | 0.07 | 6.64 | 12.70 | 12,717 |
| SVMW-11 | 250 - 252.5 | 8/21/06 | -1.7 | 0.15 | 11.18 | 6.60 | 25,020 |
| SVMW-11 | 250 - 252.5 | 8/21/06 | -1.7 | 0.05 | 5.10 | 14.18 | 24,210 |
| SVMW-11 | 250 - 252.5 | 9/20/06 | 0.06 | 0.12 | 8.14 | 7.76 | 20,610 |
| SVMW-11 | 250 - 252.5 | 9/20/06 | 0.06 | 0.14 | 8.82 | 7.12 | 20,610 |
| SVMW-11 | 250 - 252.5 | 10/24/06 | -0.57 | 0.15 | 10.36 | 6.58 | 26,820 |
| SVMW-11 | 250 - 252.5 | 10/24/06 | -0.55 | 0.15 | 10.22 | 6.88 | 28,440 |
| SVMW-11 | 250 - 252.5 | 3/2/07 | 0.44 | 0.11 | 7.82 | 9.34 | 18,540 |
| SVMW-11 | 250 - 252.5 | 3/2/07 | 0.38 | 0.12 | 9.30 | 7.92 | 21,060 |
| SVMW-11 | 250 - 252.5 | 3/16/07 | -2.8 | 0.02 | 3.64 | 15.14 | 7,420 |
| SVMW-11 | 250 - 252.5 | 3/16/07 | -2.7 | 0.01 | 2.54 | 16.62 | 5,460 |
| SVMW-11 | 250 - 252.5 | 8/23/07 | -0.05 | 0.15 | 7.76 | 9.74 | 20,340 |
| SVMW-11 | 250 - 252.5 | 8/23/07 | -0.03 | 0.17 | 9.56 | 7.60 | 24,210 |
| SVMW-11 | 250 - 252.5 | 11/28/07 | -1.6 | 0.01 | 0.94 | 20.42 | 4,420 |
| SVMW-11 | 250 - 252.5 | 3/6/08 | 2.50 | 0.13 | 7.78 | 9.62 | 22,950 |
| SVMW-11 | 250 - 252.5 | 5/12/08 | 0.52 | 0.06 | 8.14 | 8.66 | 13,554 |
| SVMW-11 | 250 - 252.5 | 7/17/08 | -1.2 | 0.08 | 6.82 | 8.14 | 36,990 |
| SVMW-11 | 250 - 252.5 | 9/29/08 | -1.20 | 0.18 | 9.60 | 6.80 | 36,180 |
| SVMW-11 | 250 - 252.5 | 12/11/08 | 2.70 | 0.02 | 9.20 | 10.33 | 41,670 |
| SVMW-11 | 250 - 252.5 | 2/18/09 | -1.9 | 0.03 | 7.42 | 12.41 | 33,390 |
| SVMW-11 | 250 - 252.5 | 5/12/09 | 0.43 | 0.02 | 5.92 | 15.00 | 19,620 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-11 | 250 - 252.5 | 8/14/09 | -0.70 | 0.01 | 7.58 | 12.24 | 41,850 |
| SVMW-11 | 250 - 252.5 | 11/11/09 | -2.5 | 0.04 | 7.36 | 13.86 | 46,530 |
| SVMW-11 | 250 - 252.5 | 2/16/10 | -0.80 | 0.00 | 10.90 | 5.29 | 40,230 |
| SVMW-11 | 250 - 252.5 | 5/13/10 | -2.50 | 0.03 | 7.46 | 13.17 | 50,400 |
| SVMW-11 | 260 - 262.5 | 7/23/04 | -1.2 | 0.01 | 6.08 | 5.36 | 18,090 |
| SVMW-11 | 260 - 262.5 | 8/19/04 | -0.29 | -0.01 | 5.58 | 5.26 | 56,070 |
| SVMW-11 | 260 - 262.5 | 2/3/05 | 0.04 | 0.05 | 8.92 | 6.14 | 29,520 |
| SVMW-11 | 260 - 262.5 | 3/31/05 | -2.0 | 0.06 | 5.78 | 8.22 | 31,320 |
| SVMW-11 | 260 - 262.5 | 8/11/05 | -0.18 | 0.05 | 7.06 | 4.00 | 35,640 |
| SVMW-11 | 260 - 262.5 | 11/22/05 | -1.8 | 0.00 | 0.06 | 20.84 | 186 |
| SVMW-11 | 260 - 262.5 | 2/24/06 | -2.0 | 0.04 | 6.80 | 9.78 | 31,230 |
| SVMW-11 | 260 - 262.5 | 4/11/06 | 0.30 | 0.15 | 6.92 | 11.18 | 49,050 |
| SVMW-11 | 260 - 262.5 | 8/9/06 | -2.00 | 0.07 | 6.64 | 12.70 | 12,717 |
| SVMW-11 | 260 - 262.5 | 8/21/06 | -1.70 | 0.05 | 5.10 | 14.18 | 24,210 |
| SVMW-11 | 260 - 262.5 | 9/20/06 | 0.06 | 0.14 | 8.82 | 7.12 | 20,610 |
| SVMW-11 | 260 - 262.5 | 10/24/06 | -0.55 | 0.15 | 10.22 | 6.88 | 28,440 |
| SVMW-11 | 260 - 262.5 | 3/2/07 | 0.38 | 0.12 | 9.30 | 7.92 | 21,060 |
| SVMW-11 | 260 - 262.5 | 3/16/07 | -2.7 | 0.01 | 2.54 | 16.62 | 5,460 |
| SVMW-11 | 260 - 262.5 | 8/23/07 | -0.03 | 0.17 | 9.56 | 7.60 | 24,210 |
| SVMW-11 | 260 - 262.5 | 7/17/08 | -1.0 | 0.08 | 8.04 | 6.68 | 37,170 |
| SVMW-11 | 260 - 262.5 | 11/28/07 | -1.6 | 0.01 | 0.74 | 20.84 | 2,440 |
| SVMW-11 | 260 - 262.5 | 3/6/08 | 2.50 | 0.17 | 7.88 | 10.04 | 24,660 |
| SVMW-11 | 260 - 262.5 | 5/12/08 | 0.50 | 0.09 | 8.96 | 8.14 | 12,618 |
| SVMW-11 | 260 - 262.5 | 9/29/08 | -1.00 | 0.18 | 8.46 | 8.50 | 27,720 |
| SVMW-11 | 260 - 262.5 | 12/11/08 | 3.5 | 0.01 | 9.96 | 9.80 | 29,790 |
| SVMW-11 | 260 - 262.5 | 2/18/09 | -1.2 | 0.02 | 8.26 | 11.69 | 35,820 |
| SVMW-11 | 260 - 262.5 | 5/12/09 | 0.60 | 0.03 | 7.58 | 14.86 | 25,830 |
| SVMW-11 | 260 - 262.5 | 8/14/09 | -0.45 | 0.04 | 8.02 | 11.59 | 53,280 |
| SVMW-11 | 260 - 262.5 | 11/11/09 | -2.5 | 0.00 | 0.50 | 22.16 | 9,549 |
| SVMW-11 | 260 - 262.5 | 2/16/10 | -0.46 | 0.00 | 6.16 | 11.94 | 18,360 |
| SVMW-11 | 260 - 262.5 | 5/13/10 | -2.10 | 0.03 | 7.52 | 14.19 | 12,123 |
| SVMW-12 | 150 - 152.5 | 7/26/04 | -0.54 | 0.00 | 0.22 | 18.94 | 1,330 |
| SVMW-12 | 150 - 152.5 | 7/30/04 | 0.05 | 0.01 | 0.24 | 19.48 | 403 |
| SVMW-12 | 150 - 152.5 | 3/31/05 | 2.8 | 0.00 | 0.22 | 19.44 | 3,790 |
| SVMW-12 | 150 - 152.5 | 8/12/05 | 0.31 | 0.00 | 0.22 | 19.08 | 684 |
| SVMW-12 | 150 - 152.5 | 11/21/05 | -1.1 | 0.00 | 0.18 | 19.46 | 113 |
| SVMW-12 | 150 - 152.5 | 2/23/06 | -1.9 | 0.00 | 0.22 | 19.62 | 420 |
| SVMW-12 | 150 - 152.5 | 4/11/06 | 0.84 | 0.00 | 0.06 | 21.40 | 142 |
| SVMW-12 | 150 - 152.5 | 8/10/06 | -1.9 | 0.01 | 0.24 | 19.62 | 96 |
| SVMW-12 | 150 - 152.5 | 8/21/06 | -1.5 | 0.00 | 0.20 | 20.40 | 193 |
| SVMW-12 | 150 - 152.5 | 9/20/06 | 0.64 | 0.00 | 0.18 | 19.36 | 79 |
| SVMW-12 | 150 - 152.5 | 10/24/06 | -0.29 | 0.00 | 0.28 | 19.70 | 94 |
| SVMW-12 | 150 - 152.5 | 2/27/07 | -0.83 | 0.00 | 0.22 | 19.32 | 131 |
| SVMW-12 | 150 - 152.5 | 8/24/07 | 0.21 | 0.00 | 0.22 | 18.72 | 80 |
| SVMW-12 | 150 - 152.5 | 11/27/07 | -1.8 | 0.00 | 0.22 | 19.94 | 57 |
| SVMW-12 | 150 - 152.5 | 3/6/08 | -- | 0.00 | 0.24 | 20.04 | 39 |
| SVMW-12 | 150 - 152.5 | 5/12/08 | -- | 0.00 | 0.28 | 19.99 | 27 |
| SVMW-12 | 150 - 152.5 | 9/29/08 | -0.80 | 0.00 | 0.26 | 19.58 | 18 |
| SVMW-12 | 150 - 152.5 | 12/11/08 | 4.5 | 0.00 | 0.18 | 19.83 | 25 |
| SVMW-12 | 150 - 152.5 | 2/18/09 | -1.5 | 0.00 | 0.26 | 20.17 | 98 |
| SVMW-12 | 150 - 152.5 | 5/13/09 | 0.29 | 0.00 | 0.18 | 19.42 | 44 |
| SVMW-12 | 150 - 152.5 | 8/14/09 | ATM | 0.00 | 0.20 | 19.12 | 431 |
| SVMW-12 | 150 - 152.5 | 11/10/09 | -2.3 | 0.00 | 0.16 | 19.76 | 43 |
| SVMW-12 | 150 - 152.5 | 2/16/10 | -0.58 | 0.00 | 0.22 | 19.78 | 585 |
| SVMW-12 | 150 - 152.5 | 5/12/10 | 0.42 | 0.00 | 0.08 | 20.79 | 333 |
| SVMW-12 | 250 - 252.5 | 7/26/04 | -0.7 | 0.01 | 0.40 | 17.96 | 5,070 |
| SVMW-12 | 250 - 252.5 | 7/30/04 | 0.15 | 0.01 | 0.36 | 17.92 | 4,790 |
| SVMW-12 | 250 - 252.5 | 3/31/05 | 2.9 | 0.01 | 0.40 | 19.20 | 4,280 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-12 | 250 - 252.5 | 8/12/05 | 0.36 | 0.01 | 0.40 | 18.64 | 4,050 |
| SVMW-12 | 250 - 252.5 | 11/21/05 | -0.8 | 0.01 | 0.40 | 18.96 | 3,340 |
| SVMW-12 | 250 - 252.5 | 2/23/06 | -2.0 | 0.01 | 0.40 | 19.14 | 3,490 |
| SVMW-12 | 250 - 252.5 | 4/11/06 | 0.88 | 0.01 | 0.24 | 20.60 | 2,080 |
| SVMW-12 | 250 - 252.5 | 8/10/06 | -2.0 | 0.01 | 0.44 | 18.78 | 4,020 |
| SVMW-12 | 250 - 252.5 | 8/21/06 | -1.5 | 0.01 | 0.44 | 18.60 | 4,030 |
| SVMW-12 | 250 - 252.5 | 9/20/06 | 0.21 | 0.01 | 0.42 | 18.58 | 3,950 |
| SVMW-12 | 250 - 252.5 | 10/24/06 | -0.39 | 0.01 | 0.48 | 18.86 | 3,960 |
| SVMW-12 | 250 - 252.5 | 2/27/07 | -0.21 | 0.01 | 0.42 | 18.44 | 3,650 |
| SVMW-12 | 250 - 252.5 | 8/24/07 | 0.19 | 0.01 | 0.42 | 17.76 | 3,170 |
| SVMW-12 | 250 - 252.5 | 11/27/07 | -2.0 | 0.00 | 0.48 | 19.50 | 3,000 |
| SVMW-12 | 250 - 252.5 | 3/6/08 | -- | 0.01 | 0.42 | 19.52 | 2,470 |
| SVMW-12 | 250 - 252.5 | 5/12/08 | -- | 0.01 | 0.48 | 19.46 | 2,680 |
| SVMW-12 | 250 - 252.5 | 9/29/08 | -0.2 | 0.01 | 0.44 | 19.12 | 2,290 |
| SVMW-12 | 250 - 252.5 | 12/11/08 | 4.3 | 0.00 | 0.40 | 19.21 | 1,839 |
| SVMW-12 | 250 - 252.5 | 2/18/09 | -1.2 | 0.00 | 0.26 | 19.91 | 160 |
| SVMW-12 | 250 - 252.5 | 5/13/09 | 0.30 | 0.00 | 0.34 | 18.9 | 1,354 |
| SVMW-12 | 250 - 252.5 | 8/14/09 | -0.28 | 0.00 | 0.36 | 18.74 | 1,249 |
| SVMW-12 | 250 - 252.5 | 11/10/09 | -2.5 | 0.00 | 0.34 | 19.47 | 897 |
| SVMW-12 | 250 - 252.5 | 2/16/10 | -0.70 | 0.00 | 0.34 | 19.50 | 1,048 |
| SVMW-12 | 250 - 252.5 | 5/12/10 | 0.6 | 0.00 | 0.18 | 20.49 | 691 |
| SVMW-12 | 350 - 352.5 | 7/26/04 | -0.76 | 0.02 | 0.38 | 18.20 | 9,350 |
| SVMW-12 | 350 - 352.5 | 7/30/04 | 0.05 | 0.02 | 0.36 | 18.02 | 9,130 |
| SVMW-12 | 350 - 352.5 | 3/31/05 | 2.4 | 0.01 | 0.24 | 19.00 | 203 |
| SVMW-12 | 350 - 352.5 | 8/12/05 | 0.34 | 0.00 | 0.22 | 18.40 | 5,830 |
| SVMW-12 | 350 - 352.5 | 11/21/05 | -0.9 | 0.00 | 0.08 | 21.54 | 35 |
| SVMW-12 | 350 - 352.5 | 2/23/06 | -2.0 | 0.02 | 0.72 | 14.78 | 21,060 |
| SVMW-12 | 350 - 352.5 | 4/11/06 | 0.78 | 0.02 | 0.44 | 18.74 | 12,897 |
| SVMW-12 | 350 - 352.5 | 8/10/06 | -2.1 | 0.06 | 0.78 | 15.38 | 17,784 |
| SVMW-12 | 350 - 352.5 | 8/21/06 | -1.6 | 0.01 | 0.68 | 15.52 | 16,461 |
| SVMW-12 | 350 - 352.5 | 9/20/06 | 0.09 | 0.07 | 1.40 | 11.88 | 21,690 |
| SVMW-12 | 350 - 352.5 | 10/24/06 | -0.66 | 0.07 | 1.16 | 14.04 | 19,350 |
| SVMW-12 | 350 - 352.5 | 2/27/07 | -0.81 | 0.08 | 1.98 | 7.56 | 25,020 |
| SVMW-12 | 350 - 352.5 | 8/24/07 | 0.07 | 0.04 | 0.62 | 13.48 | 10,890 |
| SVMW-12 | 350 - 352.5 | 11/27/07 | -1.9 | 0.02 | 0.96 | 19.48 | 10,700 |
| SVMW-12 | 350 - 352.5 | 3/6/08 | -- | 0.02 | 1.12 | 10.24 | 17,469 |
| SVMW-12 | 350 - 352.5 | 5/12/08 | -- | 0.05 | 0.98 | 12.30 | 14,544 |
| SVMW-12 | 350 - 352.5 | 9/29/08 | -1.1 | 0.02 | 0.48 | 14.86 | 9,630 |
| SVMW-12 | 350 - 352.5 | 12/11/08 | 4.6 | 0.00 | 1.90 | 9.38 | 11,250 |
| SVMW-12 | 350 - 352.5 | 2/18/09 | -1.3 | 0.00 | 0.08 | 20.05 | 614 |
| SVMW-12 | 350 - 352.5 | 5/13/09 | 0.14 | 0.00 | 0.98 | 11.92 | 4,881 |
| SVMW-12 | 350 - 352.5 | 8/14/09 | -0.04 | 0.00 | 1.20 | 12.69 | 1,848 |
| SVMW-12 | 350 - 352.5 | 11/10/09 | -2.3 | 0.00 | 12.12 | 10.36 | 669 |
| SVMW-12 | 350 - 352.5 | 2/16/10 | -0.78 | 0.00 | 2.28 | 10.95 | 598 |
| SVMW-12 | 350 - 352.5 | 5/12/10 | 0.46 | 0.00 | 0.90 | 17.10 | 692 |
| SVMW-12 | 450 - 452.5 | 7/26/04 | -0.96 | 0.01 | 0.78 | 12.32 | 21,060 |
| SVMW-12 | 450 - 452.5 | 7/30/04 | -0.01 | 0.03 | 0.42 | 16.16 | 19,800 |
| SVMW-12 | 450 - 452.5 | 3/31/05 | 2.5 | 0.01 | 0.34 | 16.98 | 10,881 |
| SVMW-12 | 450 - 452.5 | 8/12/05 | 0.2 | 0.02 | 0.38 | 17.10 | 13,032 |
| SVMW-12 | 450 - 452.5 | 11/21/05 | -1.1 | 0.00 | 0.04 | 21.66 | 1 |
| SVMW-12 | 450 - 452.5 | 2/23/06 | -2.0 | 0.01 | 0.30 | 18.24 | 6,700 |
| SVMW-12 | 450 - 452.5 | 4/11/06 | 0.90 | 0.01 | 0.32 | 18.78 | 6,010 |
| SVMW-12 | 450 - 452.5 | 8/10/06 | -2.0 | 0.02 | 0.44 | 18.88 | 7,750 |
| SVMW-12 | 450 - 452.5 | 8/21/06 | -1.6 | 0.01 | 0.20 | 19.80 | 1,810 |
| SVMW-12 | 450 - 452.5 | 9/20/06 | 0.56 | 0.01 | 0.40 | 18.58 | 7,110 |
| SVMW-12 | 450 - 452.5 | 10/24/06 | -0.43 | 0.02 | 0.46 | 18.92 | 7,450 |
| SVMW-12 | 450 - 452.5 | 2/27/07 | -0.94 | 0.01 | 0.42 | 18.30 | 7,050 |
| SVMW-12 | 450 - 452.5 | 8/24/07 | 0.07 | 0.01 | 0.11 | 17.62 | 5,850 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-12 | 450 - 452.5 | 11/27/07 | -2.0 | 0.01 | 0.40 | 19.78 | 4,790 |
| SVMW-12 | 450 - 452.5 | 3/6/08 | -- | 0.01 | 0.40 | 19.46 | 4,620 |
| SVMW-12 | 450 - 452.5 | 5/12/08 | -- | 0.01 | 0.48 | 18.88 | 5,360 |
| SVMW-12 | 450 - 452.5 | 9/29/08 | -0.96 | 0.01 | 0.44 | 19.08 | 4,130 |
| SVMW-12 | 450 - 452.5 | 12/11/08 | 4.9 | 00.0 | 0.44 | 19.05 | 2990 |
| SVMW-12 | 450 - 452.5 | 2/18/09 | -1.30 | 0.00 | 2.40 | 9.49 | 12,933 |
| SVMW-12 | 450 - 452.5 | 5/13/09 | 0.30 | 0.00 | 0.14 | 19.38 | 1,120 |
| SVMW-12 | 450 - 452.5 | 8/14/09 | -0.43 | 0.00 | 0.34 | 18.77 | 1,602 |
| SVMW-12 | 450 - 452.5 | 11/10/09 | -2.2 | 0.00 | 0.34 | 19.52 | 1,042 |
| SVMW-12 | 450 - 452.5 | 2/16/10 | -0.74 | 0.00 | 0.34 | 19.46 | 1,187 |
| SVMW-12 | 450 - 452.5 | 5/12/10 | 0.58 | 0.00 | 0.22 | 20.32 | 871 |
| SVMW-13 | 150 - 152.5 | 7/26/04 | -0.86 | 0.02 | 0.64 | 12.36 | 41,940 |
| SVMW-13 | 150 - 152.5 | 7/30/04 | -0.25 | 0.03 | 0.68 | 11.78 | 37,890 |
| SVMW-13 | 150 - 152.5 | 2/3/05 | -1.6 | 0.01 | 0.52 | 10.48 | 55,440 |
| SVMW-13 | 150 - 152.5 | 3/31/05 | 2.7 | 0.00 | 0.60 | 10.80 | 50,580 |
| SVMW-13 | 150 - 152.5 | 8/12/05 | 0.32 | 0.04 | 0.68 | 12.52 | 32,130 |
| SVMW-13 | 150 - 152.5 | 11/21/05 | -1.0 | 0.00 | 0.00 | 20.86 | 29 |
| SVMW-13 | 150 - 152.5 | 2/23/06 | -2.4 | 0.02 | 0.78 | 11.92 | 60,840 |
| SVMW-13 | 150 - 152.5 | 4/11/06 | 0.84 | 0.14 | 1.56 | 11.32 | 49,770 |
| SVMW-13 | 150 - 152.5 | 8/10/06 | -- | 0.14 | 1.64 | 10.88 | 39,150 |
| SVMW-13 | 150 - 152.5 | 8/21/06 | -1.9 | 0.01 | 1.72 | 9.76 | 41,580 |
| SVMW-13 | 150 - 152.5 | 9/20/06 | 0.08 | 0.16 | 1.92 | 9.14 | 42,750 |
| SVMW-13 | 150 - 152.5 | 10/24/06 | -0.63 | 0.16 | 2.03 | 9.60 | 50,220 |
| SVMW-13 | 150 - 152.5 | 2/27/07 | -0.92 | 0.13 | 2.30 | 6.42 | 57,330 |
| SVMW-13 | 150 - 152.5 | 8/23/07 | 0.27 | 0.16 | 2.46 | 7.90 | 37,800 |
| SVMW-13 | 150 - 152.5 | 11/27/07 | -1.2 | 0.00 | 2.44 | 7.40 | 29,250 |
| SVMW-13 | 150 - 152.5 | 3/6/08 | -- | 0.02 | 1.98 | 5.90 | 46,620 |
| SVMW-13 | 150 - 152.5 | 5/12/08 | -- | 0.18 | 2.52 | 8.38 | 31,950 |
| SVMW-13 | 150 - 152.5 | 7/29/08 | -0.89 | 0.02 | 1.52 | 8.58 | 27,540 |
| SVMW-13 | 150 - 152.5 | 9/29/08 | -1.2 | 0.15 | 1.62 | 11.18 | 31,680 |
| SVMW-13 | 150 - 152.5 | 12/11/08 | 2.9 | 0.01 | 1.84 | 12.83 | 29,790 |
| SVMW-13 | 150 - 152.5 | 2/18/09 | -2.0 | 0.01 | 1.68 | 14.60 | 10,899 |
| SVMW-13 | 150 - 152.5 | 5/12/09 | 0.75 | 0.00 | 1.12 | 15.82 | 22,950 |
| SVMW-13 | 150 - 152.5 | 8/18/09 | 0.12 | 0.01 | 1.96 | 13.05 | 21,690 |
| SVMW-13 | 150 - 152.5 | 11/10/09 | -3.1 | 0.01 | 1.78 | 14.57 | 16,533 |
| SVMW-13 | 150 - 152.5 | 2/16/10 | -1.30 | 0.00 | 1.34 | 14.40 | 22,500 |
| SVMW-13 | 150 - 152.5 | 5/12/10 | -0.10 | 0.00 | 0.80 | 17.31 | 10,305 |
| SVMW-13 | 250 - 252.5 | 7/26/04 | -0.9 | 0.02 | 0.78 | 14.98 | 14,184 |
| SVMW-13 | 250 - 252.5 | 7/30/04 | 0.11 | 0.02 | 0.78 | 15.10 | 12,798 |
| SVMW-13 | 250 - 252.5 | 2/3/05 | -1.5 | 0.03 | 0.74 | 14.18 | 22,950 |
| SVMW-13 | 250 - 252.5 | 3/31/05 | 3.3 | 0.03 | 0.74 | 14.54 | 26,190 |
| SVMW-13 | 250 - 252.5 | 8/12/05 | 0.3 | 0.03 | 0.72 | 14.34 | 24,030 |
| SVMW-13 | 250 - 252.5 | 11/21/05 | -1.2 | 0.02 | 0.60 | 14.70 | 16,866 |
| SVMW-13 | 250 - 252.5 | 2/23/06 | -2.0 | 0.03 | 0.62 | 14.76 | 24,210 |
| SVMW-13 | 250 - 252.5 | 4/11/06 | 0.93 | 0.10 | 1.06 | 13.92 | 29,880 |
| SVMW-13 | 250 - 252.5 | 8/10/06 | -- | 0.10 | 1.20 | 13.72 | 25,200 |
| SVMW-13 | 250 - 252.5 | 8/23/06 | -1.8 | 0.11 | 1.12 | 14.08 | 25,380 |
| SVMW-13 | 250 - 252.5 | 9/20/06 | 0.46 | 0.11 | 1.20 | 13.50 | 31,770 |
| SVMW-13 | 250 - 252.5 | 10/24/06 | -0.64 | 0.11 | 1.24 | 14.00 | 30,150 |
| SVMW-13 | 250 - 252.5 | 2/27/07 | -0.16 | 0.01 | 1.12 | 13.10 | 25,200 |
| SVMW-13 | 250 - 252.5 | 8/23/07 | 0.16 | 0.10 | 1.20 | 13.16 | 22,500 |
| SVMW-13 | 250 - 252.5 | 11/27/07 | -0.96 | 0.09 | 1.24 | 12.86 | 23,940 |
| SVMW-13 | 250 - 252.5 | 3/6/08 | -- | 0.04 | 0.82 | 13.04 | 24,480 |
| SVMW-13 | 250 - 252.5 | 5/12/08 | -- | 0.12 | 1.38 | 12.50 | 19,980 |
| SVMW-13 | 250 - 252.5 | 7/29/08 | -1.0 | 0.03 | 0.80 | 12.76 | 17,406 |
| SVMW-13 | 250 - 252.5 | 9/29/08 | -1.2 | 0.09 | 1.28 | 12.36 | 21,510 |
| SVMW-13 | 250 - 252.5 | 12/11/08 | 2.9 | 0.00 | 1.60 | 13.07 | 19,620 |
| SVMW-13 | 250 - 252.5 | 2/18/09 | -1.5 | 0.00 | 1.36 | 15.55 | 20,430 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-13 | 250 - 252.5 | 5/12/09 | 1.2 | 0.00 | 0.92 | 15.53 | 9,610 |
| SVMW-13 | 250 - 252.5 | 8/18/09 | 0.52 | 0.00 | 2.16 | 15.38 | 4,200 |
| SVMW-13 | 250 - 252.5 | 11/10/09 | -2.5 | 0.00 | 0.68 | 18.18 | 2,140 |
| SVMW-13 | 250 - 252.5 | 2/16/10 | -1.20 | 0.00 | 1.04 | 14.18 | 6,280 |
| SVMW-13 | 250 - 252.5 | 5/12/10 | 0.28 | 0.00 | 0.64 | 17.44 | 4,150 |
| SVMW-13 | 350 - 352.5 | 7/26/04 | -0.66 | 0.00 | 1.70 | 10.36 | 6,810 |
| SVMW-13 | 350 - 352.5 | 7/30/04 | 0.10 | 0.01 | 1.64 | 10.50 | 6,750 |
| SVMW-13 | 350 - 352.5 | 2/3/05 | -1.3 | 0.01 | 2.02 | 10.70 | 6,330 |
| SVMW-13 | 350 - 352.5 | 3/31/05 | 3.2 | 0.00 | 2.00 | 11.48 | 4,160 |
| SVMW-13 | 350 - 352.5 | 8/12/05 | 0.28 | 0.01 | 2.18 | 11.28 | 4,870 |
| SVMW-13 | 350 - 352.5 | 11/21/05 | -1.0 | 0.00 | 0.04 | 21.58 | 165 |
| SVMW-13 | 350 - 352.5 | 2/23/06 | -2.0 | 0.00 | 2.24 | 11.74 | 2,030 |
| SVMW-13 | 350 - 352.5 | 4/11/06 | 0.90 | 0.01 | 2.80 | 11.20 | 1,850 |
| SVMW-13 | 350 - 352.5 | 8/10/06 | -- | 0.00 | 2.68 | 11.02 | 2,120 |
| SVMW-13 | 350 - 352.5 | 8/21/06 | -1.6 | 0.01 | 2.66 | 11.52 | 2,210 |
| SVMW-13 | 350 - 352.5 | 9/20/06 | 0.49 | 0.01 | 2.76 | 11.50 | 2,010 |
| SVMW-13 | 350 - 352.5 | 10/24/06 | -0.45 | 0.00 | 2.78 | 11.16 | 1,631 |
| SVMW-13 | 350 - 352.5 | 2/27/07 | -0.99 | 0.00 | 2.90 | 11.70 | 1,005 |
| SVMW-13 | 350 - 352.5 | 8/23/07 | 0.25 | 0.00 | 2.80 | 12.50 | 755 |
| SVMW-13 | 350 - 352.5 | 11/27/07 | -0.88 | 0.00 | 2.90 | 12.30 | 516 |
| SVMW-13 | 350 - 352.5 | 3/6/08 | -- | 0.00 | 2.76 | 13.12 | 320 |
| SVMW-13 | 350 - 352.5 | 5/12/08 | -- | 0.01 | 3.12 | 12.78 | 280 |
| SVMW-13 | 350 - 352.5 | 7/29/08 | -0.84 | 0.01 | 2.62 | 14.28 | 279 |
| SVMW-13 | 350 - 352.5 | 9/29/08 | -1.0 | 0.00 | 2.74 | 13.20 | 446 |
| SVMW-13 | 350 - 352.5 | 12/11/08 | 3.3 | 0.00 | 2.38 | 14.04 | 305 |
| SVMW-13 | 350 - 352.5 | 2/18/09 | -1.2 | 0.00 | 0.83 | 17.47 | 262 |
| SVMW-13 | 350 - 352.5 | 5/12/09 | 1.8 | 0.00 | 1.66 | 16.69 | 170 |
| SVMW-13 | 350 - 352.5 | 8/18/09 | 0.96 | 0.00 | 2.42 | 14.52 | 135 |
| SVMW-13 | 350 - 352.5 | 11/10/09 | -2.7 | 0.00 | 2.50 | 14.89 | 467 |
| SVMW-13 | 350 - 352.5 | 2/16/10 | -0.72 | 0.00 | 2.32 | 14.74 | 730 |
| SVMW-13 | 350 - 352.5 | 5/12/10 | 0.5 | 0.00 | 1.24 | 17.53 | 363 |
| SVMW-13 | 450 - 452.5 | 7/26/04 | -0.54 | 0.00 | 0.98 | 13.38 | 234 |
| SVMW-13 | 450 - 452.5 | 7/30/04 | 0.12 | 0.00 | 1.20 | 12.54 | 212 |
| SVMW-13 | 450 - 452.5 | 2/3/05 | -1.2 | 0.00 | 1.28 | 12.86 | 117 |
| SVMW-13 | 450 - 452.5 | 3/31/05 | 2.9 | 0.00 | 1.92 | 12.06 | 39 |
| SVMW-13 | 450 - 452.5 | 8/12/05 | 0.25 | 0.01 | 1.58 | 13.10 | 75 |
| SVMW-13 | 450 - 452.5 | 11/21/05 | -0.9 | 0.00 | 0.98 | 13.42 | 26 |
| SVMW-13 | 450 - 452.5 | 2/23/06 | -1.9 | 0.00 | 1.22 | 13.44 | 67 |
| SVMW-13 | 450 - 452.5 | 4/11/06 | 0.86 | 0.01 | 1.48 | 13.04 | 182 |
| SVMW-13 | 450 - 452.5 | 8/10/06 | -- | 0.00 | 1.20 | 13.98 | 24 |
| SVMW-13 | 450 - 452.5 | 8/21/06 | -1.6 | 0.01 | 1.22 | 13.50 | 47 |
| SVMW-13 | 450 - 452.5 | 9/20/06 | 0.08 | 0.00 | 1.38 | 13.38 | 34 |
| SVMW-13 | 450 - 452.5 | 10/24/06 | -0.42 | 0.00 | 1.28 | 13.00 | 66 |
| SVMW-13 | 450 - 452.5 | 2/27/07 | -0.62 | 0.00 | 1.62 | 13.04 | 3 |
| SVMW-13 | 450 - 452.5 | 8/23/07 | 0.24 | 0.00 | 1.36 | 13.80 | 19 |
| SVMW-13 | 450 - 452.5 | 11/27/07 | -0.74 | 0.00 | 1.24 | 13.62 | 13 |
| SVMW-13 | 450 - 452.5 | 3/6/08 | -- | 0.00 | 1.38 | 14.30 | 20 |
| SVMW-13 | 450 - 452.5 | 5/12/08 | -- | 0.01 | 1.50 | 13.68 | 32 |
| SVMW-13 | 450 - 452.5 | 7/29/08 | -0.82 | 0.01 | 1.22 | 17.08 | 6 |
| SVMW-13 | 450 - 452.5 | 9/29/08 | -0.89 | 0.00 | 1.12 | 14.14 | 22 |
| SVMW-13 | 450 - 452.5 | 12/11/08 | 3.2 | 0.00 | 0.34 | 18.62 | 37 |
| SVMW-13 | 450 - 452.5 | 2/18/09 | -1.3 | 0.00 | 0.72 | 18.91 | 47 |
| SVMW-13 | 450 - 452.5 | 5/12/09 | 1.9 | 0.00 | 0.54 | 17.74 | 89 |
| SVMW-13 | 450 - 452.5 | 8/18/09 | 1.80 | 0.00 | 0.90 | 15.55 | 82 |
| SVMW-13 | 450 - 452.5 | 11/10/09 | -3.0 | 0.00 | 0.80 | 16.98 | 35 |
| SVMW-13 | 450 - 452.5 | 2/16/10 | -0.60 | 0.00 | 0.96 | 15.66 | 506 |
| SVMW-13 | 450 - 452.5 | 5/12/10 | 0.48 | 0.00 | 0.62 | 17.95 | 373 |
| SVMW-14 | 150 - 152.5 | 7/26/04 | -0.72 | 0.00 | 0.26 | 18.60 | 1,008 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-14 | 150 - 152.5 | 7/30/04 | 0.05 | 0.00 | 0.22 | 18.90 | 836 |
| SVMW-14 | 150 - 152.5 | 2/3/05 | -1.8 | 0.00 | 0.18 | 20.58 | 690 |
| SVMW-14 | 150 - 152.5 | 3/31/05 | 2.2 | 0.00 | 0.36 | 19.12 | 1,033 |
| SVMW-14 | 150 - 152.5 | 8/12/05 | 0.06 | 0.01 | 0.32 | 18.76 | 725 |
| SVMW-14 | 150 - 152.5 | 11/21/05 | -1.1 | 0.00 | 0.28 | 18.82 | 499 |
| SVMW-14 | 150 - 152.5 | 2/23/06 | -2.0 | 0.00 | 0.28 | 19.06 | 497 |
| SVMW-14 | 150 - 152.5 | 4/11/06 | 0.14 | 0.00 | 0.16 | 20.66 | 296 |
| SVMW-14 | 150 - 152.5 | 8/10/06 | -1.8 | 0.00 | 0.28 | 19.06 | 328 |
| SVMW-14 | 150 - 152.5 | 8/21/06 | -1.7 | 0.00 | 0.32 | 19.18 | 353 |
| SVMW-14 | 150 - 152.5 | 9/20/06 | 0.05 | 0.00 | 0.32 | 18.96 | 307 |
| SVMW-14 | 150 - 152.5 | 10/24/06 | -0.22 | 0.00 | 0.34 | 19.74 | 267 |
| SVMW-14 | 150 - 152.5 | 2/27/07 | 0.08 | 0.00 | 0.36 | 19.28 | 316 |
| SVMW-14 | 150 - 152.5 | 8/24/07 | -0.90 | 0.00 | 0.30 | 18.60 | 130 |
| SVMW-14 | 150 - 152.5 | 11/28/07 | -0.88 | 0.00 | 0.32 | 19.86 | 96 |
| SVMW-14 | 150 - 152.5 | 3/6/08 | -- | 0.00 | 0.28 | 19.44 | 76 |
| SVMW-14 | 150 - 152.5 | 5/12/08 | -- | 0.01 | 0.34 | 19.18 | 85 |
| SVMW-14 | 150 - 152.5 | 9/29/08 | -0.82 | 0.00 | 0.36 | 19.20 | 34 |
| SVMW-14 | 150 - 152.5 | 12/11/08 | 4.8 | 0.00 | 0.24 | 19.32 | 43 |
| SVMW-14 | 150 - 152.5 | 2/18/09 | -1.4 | 0.00 | 0.12 | 20.44 | 41 |
| SVMW-14 | 150 - 152.5 | 5/13/09 | 0.48 | 0.00 | 0.26 | 19.48 | 56 |
| SVMW-14 | 150 - 152.5 | 8/14/09 | 0.04 | 0.00 | 0.24 | 19.39 | 160 |
| SVMW-14 | 150 - 152.5 | 11/9/09 | -2.0 | 0.00 | 0.26 | 19.58 | 60 |
| SVMW-14 | 150 - 152.5 | 2/16/10 | -0.71 | 0.00 | 0.24 | 19.86 | 464 |
| SVMW-14 | 150 - 152.5 | 5/12/10 | 0.4 | 0.00 | 0.20 | 20.36 | 206 |
| SVMW-14 | 250 - 252.5 | 7/26/04 | -0.76 | 0.01 | 0.34 | 18.68 | 2,920 |
| SVMW-14 | 250 - 252.5 | 7/30/04 | 0.10 | 0.01 | 0.40 | 19.20 | 2,120 |
| SVMW-14 | 250 - 252.5 | 2/3/05 | -1.8 | 0.01 | 0.40 | 19.14 | 2,310 |
| SVMW-14 | 250 - 252.5 | 3/31/05 | 2.8 | 0.01 | 0.44 | 19.58 | 2,100 |
| SVMW-14 | 250 - 252.5 | 8/12/05 | 0.32 | 0.01 | 0.38 | 18.90 | 1,870 |
| SVMW-14 | 250 - 252.5 | 11/21/05 | -1.1 | 0.00 | 0.36 | 19.10 | 1,590 |
| SVMW-14 | 250 - 252.5 | 2/23/06 | -2.0 | 0.00 | 0.30 | 19.82 | 1,394 |
| SVMW-14 | 250 - 252.5 | 4/11/06 | 0.76 | 0.01 | 0.22 | 21.20 | 592 |
| SVMW-14 | 250 - 252.5 | 8/10/06 | -1.8 | 0.00 | 0.32 | 19.08 | 1,218 |
| SVMW-14 | 250 - 252.5 | 8/21/06 | -1.6 | 0.01 | 0.40 | 19.10 | 1,224 |
| SVMW-14 | 250 - 252.5 | 9/20/06 | 0.48 | 0.00 | 0.40 | 18.98 | 1,142 |
| SVMW-14 | 250 - 252.5 | 12/11/06 | -0.22 | 0.00 | 0.42 | 19.76 | 974 |
| SVMW-14 | 250 - 252.5 | 2/27/07 | 0.08 | 0.00 | 0.38 | 18.88 | 1,182 |
| SVMW-14 | 250 - 252.5 | 8/24/07 | 0.21 | 0.00 | 0.38 | 18.58 | 632 |
| SVMW-14 | 250 - 252.5 | 11/28/07 | -0.91 | 0.00 | 0.36 | 19.86 | 472 |
| SVMW-14 | 250 - 252.5 | 3/6/08 | -- | 0.00 | 0.36 | 19.50 | 466 |
| SVMW-14 | 250 - 252.5 | 5/12/08 | -- | 0.01 | 0.42 | 19.40 | 425 |
| SVMW-14 | 250 - 252.5 | 9/29/08 | -0.83 | 0.00 | 0.38 | 19.26 | 254 |
| SVMW-14 | 250 - 252.5 | 12/11/08 | 4.6 | 0.00 | 0.28 | 19.18 | 187 |
| SVMW-14 | 250 - 252.5 | 2/18/09 | -1.4 | 0.00 | 0.34 | 19.96 | 1,380 |
| SVMW-14 | 250 - 252.5 | 5/13/09 | 0.49 | 0.00 | 0.26 | 19.14 | 110 |
| SVMW-14 | 250 - 252.5 | 8/14/09 | -0.02 | 0.00 | 0.26 | 19.37 | 166 |
| SVMW-14 | 250 - 252.5 | 11/9/09 | -1.2 | 0.00 | 0.30 | 19.53 | 50 |
| SVMW-14 | 250 - 252.5 | 2/16/10 | -0.75 | 0.00 | 0.30 | 19.69 | 686 |
| SVMW-14 | 250 - 252.5 | 5/12/10 | 0.42 | 0.00 | 0.22 | 20.53 | 81 |
| SVMW-14 | 350 - 352.5 | 7/26/04 | -0.94 | 0.00 | 0.14 | 19.04 | 3,840 |
| SVMW-14 | 350 - 352.5 | 7/30/04 | 0.16 | 0.01 | 0.18 | 20.12 | 3,360 |
| SVMW-14 | 350 - 352.5 | 2/3/05 | -2.1 | 0.00 | 0.08 | 19.20 | 4,260 |
| SVMW-14 | 350 - 352.5 | 3/31/05 | 3.0 | 0.01 | 0.22 | 20.46 | 4,570 |
| SVMW-14 | 350 - 352.5 | 8/12/05 | 0.4 | 0.01 | 0.16 | 19.04 | 3,840 |
| SVMW-14 | 350 - 352.5 | 11/21/05 | -1.2 | 0.00 | 0.18 | 19.86 | 3,450 |
| SVMW-14 | 350 - 352.5 | 2/23/06 | -2.0 | 0.01 | 0.22 | 20.58 | 3,910 |
| SVMW-14 | 350 - 352.5 | 4/11/06 | 0.82 | 0.01 | 0.20 | 21.14 | 2,840 |
| SVMW-14 | 350 - 352.5 | 8/10/06 | -2.0 | 0.01 | 0.20 | 19.78 | 4,060 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-14 | 350 - 352.5 | 8/21/06 | -1.6 | 0.01 | 0.24 | 19.68 | 3,870 |
| SVMW-14 | 350 - 352.5 | 9/20/06 | 0.49 | 0.00 | 0.20 | 19.50 | 3,890 |
| SVMW-14 | 350 - 352.5 | 12/11/06 | -0.36 | 0.01 | 0.26 | 20.36 | 3,310 |
| SVMW-14 | 350 - 352.5 | 2/27/07 | 0.13 | 0.01 | 0.26 | 19.30 | 4,000 |
| SVMW-14 | 350 - 352.5 | 8/24/07 | 0.26 | 0.01 | 0.22 | 18.92 | 3,070 |
| SVMW-14 | 350 - 352.5 | 11/28/07 | -1.1 | 0.00 | 0.22 | 19.22 | 2,760 |
| SVMW-14 | 350 - 352.5 | 3/6/08 | -- | 0.00 | 0.22 | 19.76 | 2,590 |
| SVMW-14 | 350 - 352.5 | 5/12/08 | -- | 0.01 | 0.26 | 19.74 | 2,940 |
| SVMW-14 | 350 - 352.5 | 9/29/08 | -.98 | 0.01 | 0.24 | 19.54 | 1,714 |
| SVMW-14 | 350 - 352.5 | 12/11/08 | 4.5 | 0.00 | 0.22 | 19.42 | 1,160 |
| SVMW-14 | 350 - 352.5 | 2/18/09 | -1.7 | 0.00 | 1.16 | 12.82 | 6,640 |
| SVMW-14 | 350 - 352.5 | 5/13/09 | 0.49 | 0.00 | 0.16 | 19.48 | 711 |
| SVMW-14 | 350 - 352.5 | 8/14/09 | -0.32 | 0.00 | 0.16 | 19.60 | 372 |
| SVMW-14 | 350 - 352.5 | 11/9/09 | -1.7 | 0.00 | 0.14 | 19.83 | 193 |
| SVMW-14 | 350 - 352.5 | 2/16/10 | -0.93 | 0.00 | 0.18 | 19.81 | 652 |
| SVMW-14 | 350 - 352.5 | 5/12/10 | 0.56 | 0.00 | 0.16 | 20.60 | 200 |
| SVMW-14 | 450 - 452.5 | 7/26/04 | -1.3 | 0.02 | 0.22 | 13.58 | 30,330 |
| SVMW-14 | 450 - 452.5 | 7/30/04 | -0.14 | 0.02 | 0.20 | 14.06 | 36,180 |
| SVMW-14 | 450 - 452.5 | 2/3/05 | -2.2 | 0.02 | 0.98 | 2.82 | 34,200 |
| SVMW-14 | 450 - 452.5 | 3/31/05 | 2.8 | 0.02 | 0.48 | 13.64 | 32,220 |
| SVMW-14 | 450 - 452.5 | 8/12/05 | -0.14 | 0.00 | 0.22 | 16.14 | 46,260 |
| SVMW-14 | 450 - 452.5 | 11/21/05 | -1.4 | 0.00 | 0.08 | 21.52 | -- |
| SVMW-14 | 450 - 452.5 | 2/23/06 | -2.0 | 0.00 | 0.96 | 6.54 | 38,340 |
| SVMW-14 | 450 - 452.5 | 4/11/06 | 0.64 | 0.06 | 1.02 | 14.29 | 23,850 |
| SVMW-14 | 450 - 452.5 | 8/10/06 | -2.1 | 0.12 | 1.90 | 6.84 | 40,140 |
| SVMW-14 | 450 - 452.5 | 8/21/06 | -1.6 | 0.14 | 1.94 | 8.32 | 30,330 |
| SVMW-14 | 450 - 452.5 | 9/20/06 | 0.36 | 0.10 | 2.08 | 5.38 | 40,590 |
| SVMW-14 | 450 - 452.5 | 12/11/06 | -0.48 | 0.11 | 2.52 | 5.80 | 38,520 |
| SVMW-14 | 450 - 452.5 | 2/27/07 | 0.08 | 0.09 | 2.46 | 2.32 | 48,240 |
| SVMW-14 | 450 - 452.5 | 8/24/07 | 0.30 | 0.13 | 2.76 | 4.34 | 32,760 |
| SVMW-14 | 450 - 452.5 | 11/28/07 | -0.96 | 0.10 | 3.18 | 3.64 | 35,550 |
| SVMW-14 | 450 - 452.5 | 3/6/08 | -- | 0.02 | 2.42 | 2.74 | 30,600 |
| SVMW-14 | 450 - 452.5 | 5/12/08 | -- | 0.13 | 3.56 | 2.46 | 33,030 |
| SVMW-14 | 450 - 452.5 | 9/29/08 | -1.3 | 0.12 | 3.60 | 2.66 | 25,560 |
| SVMW-14 | 450 - 452.5 | 12/11/08 | 4.50 | 0.01 | 3.26 | 6.44 | 11,097 |
| SVMW-14 | 450 - 452.5 | 2/18/09 | -1.50 | 0.00 | 0.32 | 20.34 | 2,030 |
| SVMW-14 | 450 - 452.5 | 5/13/09 | 0.29 | 0.00 | 2.7 | 6.61 | 18,090 |
| SVMW-14 | 450 - 452.5 | 8/14/09 | -0.05 | 0.00 | 2.98 | 5.20 | 13,842 |
| SVMW-14 | 450 - 452.5 | 11/9/09 | -1.9 | 0.01 | 2.86 | 6.58 | 13,617 |
| SVMW-14 | 450 - 452.5 | 2/16/10 | -1.30 | 0.00 | 3.42 | 4.55 | 25,110 |
| SVMW-14 | 450 - 452.5 | 5/12/10 | 0.31 | 0.01 | 1.80 | 12.29 | 3,230 |
| SVMW-15 | 150 - 152.5 | 7/26/04 | -0.02 | 0.00 | 0.32 | 13.88 | 3,280 |
| SVMW-15 | 150 - 152.5 | 7/30/04 | 0.13 | 0.00 | 0.32 | 13.96 | 3,120 |
| SVMW-15 | 150 - 152.5 | 2/3/05 | -1.6 | 0.01 | 0.32 | 14.10 | 3,070 |
| SVMW-15 | 150 - 152.5 | 3/31/05 | -2.0 | 0.00 | 0.48 | 13.40 | 3,850 |
| SVMW-15 | 150 - 152.5 | 8/11/05 | 1.4 | 0.01 | 0.42 | 13.18 | 2,980 |
| SVMW-15 | 150 - 152.5 | 11/21/05 | -1.8 | 0.00 | 0.36 | 14.10 | 2,260 |
| SVMW-15 | 150 - 152.5 | 2/24/06 | -1.8 | 0.00 | 0.44 | 14.56 | 2,470 |
| SVMW-15 | 150 - 152.5 | 4/11/06 | 1.3 | 0.01 | 0.54 | 13.80 | 3,030 |
| SVMW-15 | 150 - 152.5 | 8/9/06 | -2.0 | 0.01 | 0.46 | 13.70 | 2,410 |
| SVMW-15 | 150 - 152.5 | 8/21/06 | -1.6 | 0.01 | 0.44 | 13.88 | 2,390 |
| SVMW-15 | 150 - 152.5 | 9/20/06 | 0.46 | 0.01 | 0.58 | 13.40 | 2,600 |
| SVMW-15 | 150 - 152.5 | 10/24/06 | -0.45 | 0.01 | 0.54 | 13.96 | 2,400 |
| SVMW-15 | 150 - 152.5 | 2/27/07 | 0.99 | 0.01 | 0.78 | 13.82 | 2,640 |
| SVMW-15 | 150 - 152.5 | 8/27/07 | 0.26 | 0.00 | 0.40 | 15.50 | 1,016 |
| SVMW-15 | 150 - 152.5 | 11/27/07 | -0.83 | 0.00 | 0.52 | 15.12 | 1,487 |
| SVMW-15 | 150 - 152.5 | 3/6/08 | -- | 0.01 | 0.78 | 14.90 | 1,285 |
| SVMW-15 | 150 - 152.5 | 5/12/08 | 0.75 | 0.01 | 0.72 | 14.28 | 1,255 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-15 | 150 - 152.5 | 7/18/08 | -0.78 | 0.01 | 0.52 | 14.52 | 970 |
| SVMW-15 | 150 - 152.5 | 9/29/08 | -0.84 | 0.00 | 0.54 | 14.98 | 1,006 |
| SVMW-15 | 150 - 152.5 | 12/11/08 | 4.00 | 0.00 | 0.44 | 15.81 | 762 |
| SVMW-15 | 150 - 152.5 | 2/19/09 | -3.50 | 0.00 | 0.58 | 16.75 | 755 |
| SVMW-15 | 150 - 152.5 | 5/12/09 | 1.5 | 0.00 | 0.44 | 18.04 | 537 |
| SVMW-15 | 150 - 152.5 | 8/14/09 | -0.17 | 0.00 | 0.42 | 17.02 | 847 |
| SVMW-15 | 150 - 152.5 | 11/10/09 | -2.2 | 0.00 | 0.36 | 17.75 | 284 |
| SVMW-15 | 150 - 152.5 | 2/16/10 | -0.69 | 0.00 | 0.60 | 16.42 | 2,360 |
| SVMW-15 | 150 - 152.5 | 5/12/10 | 0.39 | 0.00 | 0.42 | 18.14 | 510 |
| SVMW-15 | 250 - 252.5 | 7/26/04 | -0.17 | 0.01 | 0.50 | 13.00 | 7,710 |
| SVMW-15 | 250 - 252.5 | 7/30/04 | 0.13 | 0.01 | 0.48 | 12.86 | 8,040 |
| SVMW-15 | 250 - 252.5 | 2/3/05 | -2.0 | 0.02 | 0.52 | 13.02 | 7,580 |
| SVMW-15 | 250 - 252.5 | 3/31/05 | -2.1 | 0.01 | 0.64 | 12.74 | 8,060 |
| SVMW-15 | 250 - 252.5 | 8/11/05 | 1.4 | 0.01 | 0.52 | 12.86 | 6,310 |
| SVMW-15 | 250 - 252.5 | 11/21/05 | -2.0 | 0.00 | 0.34 | 17.82 | 2,500 |
| SVMW-15 | 250 - 252.5 | 2/24/06 | -1.9 | 0.01 | 0.70 | 13.62 | 5,440 |
| SVMW-15 | 250 - 252.5 | 4/11/06 | 1.3 | 0.01 | 0.54 | 13.80 | 3,030 |
| SVMW-15 | 250 - 252.5 | 8/9/06 | -2.0 | 0.01 | 0.78 | 13.22 | 4,660 |
| SVMW-15 | 250 - 252.5 | 8/21/06 | -1.7 | 0.01 | 0.76 | 13.26 | 4,740 |
| SVMW-15 | 250 - 252.5 | 9/20/06 | 0.45 | 0.01 | 0.82 | 13.06 | 4,850 |
| SVMW-15 | 250 - 252.5 | 10/24/06 | -0.49 | 0.01 | 0.86 | 13.64 | 4,420 |
| SVMW-15 | 250 - 252.5 | 2/27/07 | 1.0 | 0.01 | 0.94 | 13.68 | 4,330 |
| SVMW-15 | 250 - 252.5 | 8/27/07 | 0.28 | 0.00 | 0.84 | 13.60 | 2,920 |
| SVMW-15 | 250 - 252.5 | 11/27/07 | -0.95 | 0.00 | 0.88 | 14.90 | 2,350 |
| SVMW-15 | 250 - 252.5 | 3/6/08 | -- | 0.01 | 1.02 | 14.74 | 2,040 |
| SVMW-15 | 250 - 252.5 | 5/12/08 | 0.79 | 0.01 | 1.04 | 14.36 | 1,772 |
| SVMW-15 | 250 - 252.5 | 7/18/08 | -0.83 | 0.01 | 0.88 | 14.50 | 1,425 |
| SVMW-15 | 250 - 252.5 | 9/29/08 | -0.99 | 0.01 | 0.98 | 14.52 | 1,680 |
| SVMW-15 | 250 - 252.5 | 12/11/08 | 4.20 | 0.00 | 0.74 | 15.64 | 1,196 |
| SVMW-15 | 250 - 252.5 | 2/19/09 | -3.70 | 0.00 | 0.80 | 16.45 | 1,012 |
| SVMW-15 | 250 - 252.5 | 5/12/09 | 1.4 | 0.00 | 0.82 | 16.15 | 827 |
| SVMW-15 | 250 - 252.5 | 8/14/09 | -0.20 | 0.00 | 0.98 | 16.18 | 800 |
| SVMW-15 | 250 - 252.5 | 11/10/09 | -2.5 | 0.00 | 0.84 | 16.06 | 592 |
| SVMW-15 | 250 - 252.5 | 2/16/10 | -0.82 | 0.00 | 0.84 | 15.92 | 1,025 |
| SVMW-15 | 250 - 252.5 | 5/12/10 | 0.45 | 0.00 | 0.48 | 18.43 | 387 |
| SVMW-15 | 350 - 352.5 | 7/26/04 | -0.44 | 0.02 | 0.66 | 13.20 | 27,090 |
| SVMW-15 | 350 - 352.5 | 7/30/04 | -0.07 | 0.03 | 0.62 | 13.56 | 18,630 |
| SVMW-15 | 350 - 352.5 | 2/3/05 | -2.3 | 0.03 | 0.66 | 14.28 | 26,010 |
| SVMW-15 | 350 - 352.5 | 3/31/05 | -2.0 | 0.03 | 0.70 | 14.16 | 29,340 |
| SVMW-15 | 350 - 352.5 | 8/11/05 | 1.2 | 0.03 | 0.62 | 12.58 | 28,080 |
| SVMW-15 | 350 - 352.5 | 11/21/05 | -2.3 | 0.00 | 0.06 | 21.58 | 62 |
| SVMW-15 | 350 - 352.5 | 2/24/06 | -2.1 | 0.02 | 0.66 | 14.00 | 24,660 |
| SVMW-15 | 350 - 352.5 | 4/11/06 | 1.1 | 0.11 | 1.22 | 13.60 | 32,130 |
| SVMW-15 | 350 - 352.5 | 8/9/06 | -2.2 | 0.13 | 1.28 | 13.20 | 29,070 |
| SVMW-15 | 350 - 352.5 | 8/21/06 | -1.9 | 0.06 | 1.30 | 13.00 | 30,780 |
| SVMW-15 | 350 - 352.5 | 9/20/06 | 0.05 | 0.13 | 1.30 | 12.78 | 29,880 |
| SVMW-15 | 350 - 352.5 | 10/24/06 | -0.69 | 0.09 | 1.24 | 14.54 | 19,890 |
| SVMW-15 | 350 - 352.5 | 2/27/07 | 1.2 | 0.12 | 1.34 | 13.22 | 25,920 |
| SVMW-15 | 350 - 352.5 | 8/27/07 | 0.26 | 0.11 | 1.22 | 12.90 | 21,960 |
| SVMW-15 | 350 - 352.5 | 11/27/07 | -1.1 | 0.10 | 1.26 | 13.74 | 19,980 |
| SVMW-15 | 350 - 352.5 | 3/6/08 | -- | 0.04 | 0.76 | 12.74 | 25,920 |
| SVMW-15 | 350 - 352.5 | 5/12/08 | 0.58 | 0.14 | 1.36 | 12.94 | 25,470 |
| SVMW-15 | 350 - 352.5 | 7/18/08 | -1.2 | 0.06 | 0.86 | 12.76 | 19,170 |
| SVMW-15 | 350 - 352.5 | 9/29/08 | -1.00 | 0.11 | 1.32 | 12.84 | 23,310 |
| SVMW-15 | 350 - 352.5 | 12/11/08 | 4.30 | 0.00 | 1.40 | 14.86 | 18,900 |
| SVMW-15 | 350 - 352.5 | 2/19/09 | -4.00 | 0.00 | 1.56 | 14.77 | 17,280 |
| SVMW-15 | 350 - 352.5 | 5/12/09 | 0.98 | 0.00 | 1.22 | 14.82 | 13,050 |
| SVMW-15 | 350 - 352.5 | 8/14/09 | -0.66 | 0.01 | 1.38 | 14.92 | 15,966 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVMW-15 | 350 - 352.5 | 11/10/09 | -2.5 | 0.01 | 1.30 | 14.78 | 16,767 |
| SVMW-15 | 350 - 352.5 | 2/16/10 | -1.30 | 0.00 | 1.06 | 14.25 | 18,180 |
| SVMW-15 | 350 - 352.5 | 5/12/10 | 0.28 | 0.00 | 0.60 | 17.38 | 12,150 |
| SVMW-15 | 450 - 452.5 | 7/26/04 | -0.37 | 0.01 | 0.56 | 11.92 | 38,520 |
| SVMW-15 | 450 - 452.5 | 7/30/04 | -0.12 | 0.03 | 0.58 | 12.82 | 32,400 |
| SVMW-15 | 450 - 452.5 | 2/3/05 | -2.0 | 0.01 | 0.66 | 15.28 | 50,760 |
| SVMW-15 | 450 - 452.5 | 3/31/05 | -2.0 | 0.00 | 0.16 | 20.04 | 1,016 |
| SVMW-15 | 450 - 452.5 | 8/11/05 | 1.4 | 0.04 | 0.72 | 11.68 | 38,340 |
| SVMW-15 | 450 - 452.5 | 11/21/05 | -2.2 | 0.00 | 0.08 | 21.85 | 81 |
| SVMW-15 | 450 - 452.5 | 2/24/06 | -2.0 | 0.03 | 0.62 | 13.90 | 25,290 |
| SVMW-15 | 450 - 452.5 | 4/11/06 | 1.2 | 0.15 | 1.32 | 12.44 | 42,300 |
| SVMW-15 | 450 - 452.5 | 8/9/06 | -2.2 | 0.15 | 1.42 | 11.52 | 45,900 |
| SVMW-15 | 450 - 452.5 | 8/21/06 | -1.9 | 0.16 | 1.48 | 11.84 | 43,290 |
| SVMW-15 | 450 - 452.5 | 9/20/06 | 0.27 | 0.15 | 1.50 | 11.74 | 43,560 |
| SVMW-15 | 450 - 452.5 | 10/24/06 | -0.63 | 0.14 | 1.64 | 12.54 | 39,150 |
| SVMW-15 | 450 - 452.5 | 2/27/07 | 1.0 | 0.14 | 1.44 | 11.26 | 45,990 |
| SVMW-15 | 450 - 452.5 | 8/27/07 | 0.26 | 0.15 | 1.50 | 11.84 | 34,560 |
| SVMW-15 | 450 - 452.5 | 11/27/07 | -1.0 | 0.14 | 1.56 | 12.30 | 2,664 |
| SVMW-15 | 450 - 452.5 | 3/6/08 | -- | 0.03 | 0.72 | 11.18 | 43,920 |
| SVMW-15 | 450 - 452.5 | 5/12/08 | 0.68 | 0.22 | 1.74 | 12.16 | 41,130 |
| SVMW-15 | 450 - 452.5 | 7/18/08 | -0.9 | 0.06 | 0.94 | 11.48 | 33,390 |
| SVMW-15 | 450 - 452.5 | 9/29/08 | -1.00 | 0.16 | 1.54 | 11.42 | 36,180 |
| SVMW-15 | 450 - 452.5 | 12/11/08 | 39.00 | 0.01 | 2.36 | 12.57 | 31,410 |
| SVMW-15 | 450 - 452.5 | 2/19/09 | -3.90 | 0.02 | 2.28 | 14.20 | 26,460 |
| SVMW-15 | 450 - 452.5 | 5/12/09 | 1.1 | 0.01 | 1.66 | 15.02 | 21,420 |
| SVMW-15 | 450 - 452.5 | 8/14/09 | -0.62 | 0.02 | 2.88 | 13.34 | 36,720 |
| SVMW-15 | 450 - 452.5 | 11/10/09 | -3.0 | 0.01 | 0.64 | 20.73 | 6,330 |
| SVMW-15 | 450 - 452.5 | 2/16/10 | -1.30 | 0.00 | 2.22 | 14.44 | 28,080 |
| SVMW-15 | 450 - 452.5 | 5/12/10 | 0.01 | 0.01 | 1.56 | 17.17 | 30,690 |
| **Vapor Extraction Wells** | | | | | | | |
| SVEW-01 | 245 - 260 | 7/16/04 | -- | 0.00 | 3.62 | 6.80 | 49,860 |
| SVEW-01 | 245 - 260 | 7/23/04 | -12.2 | 0.00 | 3.62 | 7.08 | 47,070 |
| SVEW-01 | 245 - 260 | 7/30/04 | -9.0 | 0.02 | 3.48 | 8.26 | 49,590 |
| SVEW-01 | 245 - 260 | 8/10/04 | -13.5 | 0.01 | 3.52 | 8.14 | 53,100 |
| SVEW-01 | 245 - 260 | 8/17/04 | na | 0.03 | 2.90 | 11.12 | 47,970 |
| SVEW-01 | 245 - 260 | 8/19/04 | -9.6 | 0.01 | 3.70 | 7.28 | 51,750 |
| SVEW-01 | 245 - 260 | 9/2/04 | -10.0 | 0.01 | 3.72 | 7.60 | 52,740 |
| SVEW-01 | 245 - 260 | 9/8/04 | -12.5 | -- | -- | -- | -- |
| SVEW-01 | 245 - 260 | 9/21/04 | -13.5 | 0.02 | 3.62 | 8.16 | 57,330 |
| SVEW-01 | 245 - 260 | 9/23/04 | -4.9 | 0.02 | 3.82 | 7.80 | 53,730 |
| SVEW-01 | 245 - 260 | 9/28/04 | -6.8 | 0.02 | 3.76 | 8.50 | 52,020 |
| SVEW-01 | 245 - 260 | 11/17/04 | -16.2 | 0.02 | 1.86 | 9.20 | 44,370 |
| SVEW-01 | 245 - 260 | 3/22/05 | -18 | -- | -- | -- | -- |
| SVEW-01 | 245 - 260 | 7/6/05 | -2.0 | 0.03 | 1.46 | 18.14 | 13,383 |
| SVEW-01 | 245 - 260 | 8/11/05 | -3.0 | 0.04 | 4.32 | 7.04 | 47,610 |
| SVEW-01 | 245 - 260 | 9/20/05 | -3.80 | 0.03 | 4.58 | 9.72 | 44,820 |
| SVEW-01 | 245 - 260 | 10/13/05 | -2.2 | 0.07 | 4.70 | 7.48 | 42,390 |
| SVEW-01 | 245 - 260 | 11/21/05 | -9.4 | 0.01 | 4.06 | 7.88 | 42,750 |
| SVEW-01 | 245 - 260 | 12/7/05 | -12.0 | 0.02 | 4.08 | 9.04 | 17,046 |
| SVEW-01 | 245 - 260 | 1/20/06 | -14 | 0.03 | 3.94 | 10.30 | 35,190 |
| SVEW-01 | 245 - 260 | 2/23/06 | -15.2 | 0.02 | 3.92 | 9.34 | 31,050 |
| SVEW-01 | 245 - 260 | 3/31/06 | -7.6 | 0.13 | 5.62 | 7.50 | 44,640 |
| SVEW-01 | 245 - 260 | 4/11/06 | -9.0 | 0.17 | 5.30 | 8.96 | 48,690 |
| SVEW-01 | 245 - 260 | 5/31/06 | -8.6 | 7.43 | 26.88 | 8.60 | 34,080 |
| SVEW-01 | 245 - 260 | 6/29/06 | -3.7 | 0.15 | 6.24 | 7.80 | 49,140 |
| SVEW-01 | 245 - 260 | 7/12/06 | -3.1 | 0.16 | 6.24 | 7.78 | 47,340 |
| SVEW-01 | 245 - 260 | 8/9/06 | -4.1 | 0.16 | 6.46 | 7.24 | 48,600 |
| SVEW-01 | 245 - 260 | 8/21/06 | -2.0 | 0.18 | 7.36 | 5.80 | 31,770 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-01 | 245 - 260 | 9/21/06 | -5.7 | 0.18 | 5.94 | 9.00 | 53,370 |
| SVEW-01 | 245 - 260 | 10/27/06 | -9 | 0.17 | 5.10 | 11.78 | 39,420 |
| SVEW-01 | 245 - 260 | 11/16/06 | -13 | 0.17 | 4.92 | 13.08 | 46,080 |
| SVEW-01 | 245 - 260 | 12/11/06 | -23 | 0.15 | 6.30 | 10.74 | 26,100 |
| SVEW-01 | 245 - 260 | 1/5/07 | -6.5 | 0.11 | 5.62 | 10.12 | 33,390 |
| SVEW-01 | 245 - 260 | 3/2/07 | -11.5 | 0.13 | 5.92 | 9.36 | 30,330 |
| SVEW-01 | 245 - 260 | 3/16/07 | -15 | 0.16 | 5.84 | 9.32 | 43,020 |
| SVEW-01 | 245 - 260 | 4/30/07 | -15 | 0.17 | 6.20 | 8.66 | 35,820 |
| SVEW-01 | 245 - 260 | 5/18/07 | -17 | 0.16 | 5.80 | 9.46 | 45,540 |
| SVEW-01 | 245 - 260 | 6/29/07 | -2.5 | 0.18 | 6.52 | 8.40 | 39,240 |
| SVEW-01 | 245 - 260 | 8/22/07 | -8.00 | 0.17 | 6.28 | 8.84 | 40,680 |
| SVEW-01 | 245 - 260 | 9/28/07 | -6.2 | 0.16 | 6.10 | 10.12 | 37,530 |
| SVEW-01 | 245 - 260 | 10/15/07 | -5.2 | 0.19 | 6.62 | 8.80 | 37,530 |
| SVEW-01 | 245 - 260 | 11/28/07 | -8.0 | 0.09 | 1.06 | 16.40 | 17,748 |
| SVEW-01 | 245 - 260 | 1/24/08 | -8.2 | 0.20 | 7.28 | 8.44 | 59,400 |
| SVEW-01 | 245 - 260 | 2/29/08 | -23.00 | -- | -- | -- | -- |
| SVEW-01 | 245 - 260 | 3/6/08 | -7.20 | 0.05 | 4.46 | 11.48 | 34,470 |
| SVEW-01 | 245 - 260 | 4/17/08 | -- | 0.08 | 4.86 | 10.38 | 41,220 |
| SVEW-01 | 245 - 260 | 5/14/08 | -2.2 | 0.13 | 6.00 | 10.26 | 40,950 |
| SVEW-01 | 245 - 260 | 6/25/08 | -7.7 | 0.24 | 6.64 | 10.10 | 45,630 |
| SVEW-01 | 245 - 260 | 7/17/08 | -6.6 | 0.06 | 4.86 | 11.34 | 34,920 |
| SVEW-01 | 245 - 260 | 9/30/08 | -4.00 | 0.13 | 5.74 | 11.80 | 34,020 |
| SVEW-01 | 245 - 260 | 10/24/08 | -10.00 | 0.21 | 9.04 | 5.98 | 35,820 |
| SVEW-01 | 245 - 260 | 11/25/08 | -12.50 | 0.06 | 5.34 | 12.28 | 40,950 |
| SVEW-01 | 245 - 260 | 12/9/08 | -4.70 | 0.32 | 13.96 | 10.12 | 82,980 |
| SVEW-01 | 245 - 260 | 1/29/09 | -7.60 | 0.00 | 6.04 | 12.98 | 25,560 |
| SVEW-01 | 245 - 260 | 2/17/09 | -4.40 | 0.04 | 6.68 | 13.20 | 29,970 |
| SVEW-01 | 245 - 260 | 3/24/09 | -5 | 0.00 | 5.80 | 13.47 | 30,420 |
| SVEW-01 | 245 - 260 | 4/28/09 | -- | 0.02 | 6.54 | 11.68 | 31,590 |
| SVEW-01 | 245 - 260 | 5/11/09 | -13.1 | 0.03 | 4.40 | 14.37 | 29,880 |
| SVEW-01 | 245 - 260 | 6/23/09 | -- | 0.03 | 6.60 | 11.79 | 30,690 |
| SVEW-01 | 245 - 260 | 7/16/09 | -5.10 | 0.03 | 6.76 | 11.55 | 24,480 |
| SVEW-01 | 245 - 260 | 8/19/09 | -1.4 | 0.04 | 6.98 | 11.48 | 30,780 |
| SVEW-01 | 245 - 260 | 9/15/09 | -5.5 | 0.04 | 6.48 | 12.02 | 29,430 |
| SVEW-01 | 245 - 260 | 10/30/09 | -4.30 | 0.03 | 6.40 | 12.83 | 34,380 |
| SVEW-01 | 245 - 260 | 11/11/09 | -4.0 | 0.04 | 6.70 | 12.07 | 30,330 |
| SVEW-01 | 245 - 260 | 12/9/09 | -3.00 | 0.02 | 6.42 | 13.03 | 31,050 |
| SVEW-01 | 245 - 260 | 1/29/10 | -1.0 | 0.00 | 3.16 | 17.10 | 10,332 |
| SVEW-01 | 245 - 260 | 2/18/10 | -0.18 | 0.01 | 8.88 | 6.62 | 31,230 |
| SVEW-01 | 245 - 260 | 3/15/10 | -- | 0.00 | 5.64 | 13.54 | 28,080 |
| SVEW-01 | 245-260 | 4/7/10 | <-30 | 0.00 | 3.86 | 15.33 | 8,200 |
| SVEW-01 | 245 - 260 | 5/14/10 | -7.0 | 0.01 | 2.58 | 17.12 | 14,724 |
| SVEW-01 | 245 - 260 | 6/29/10 | -8.5 | 0.03 | 4.88 | 14.51 | 29,880 |
| SVEW-02 | 45 - 60 | 7/16/04 | -- | 0.02 | 6.66 | 11.30 | 19,800 |
| SVEW-02 | 45 - 60 | 7/23/04 | -0.14 | 0.05 | 13.84 | 0.58 | 18,540 |
| SVEW-02 | 45 - 60 | 7/30/04 | 0.15 | 0.05 | 13.56 | 0.88 | 18,810 |
| SVEW-02 | 45 - 60 | 8/10/04 | 0.2 | 0.05 | 14.08 | 0.52 | 18,990 |
| SVEW-02 | 45 - 60 | 8/19/04 | -0.12 | 0.04 | 13.86 | 0.72 | 19,620 |
| SVEW-02 | 45 - 60 | 9/2/04 | atm | 0.06 | 14.34 | 0.66 | 21,240 |
| SVEW-02 | 45 - 60 | 9/8/04 | -0.17 | -- | -- | -- | -- |
| SVEW-02 | 45 - 60 | 9/21/04 | -0.1 | 0.06 | 14.22 | 0.72 | 19,710 |
| SVEW-02 | 45 - 60 | 9/28/04 | -0.26 | -- | -- | -- | -- |
| SVEW-02 | 45 - 60 | 11/17/04 | 0.25 | 0.05 | 13.58 | 1.98 | 22,500 |
| SVEW-02 | 45 - 60 | 3/22/05 | -0.16 | 0.05 | 15.60 | 0.24 | 25,470 |
| SVEW-02 | 45 - 60 | 7/6/05 | -0.4 | 0.01 | 1.28 | 19.12 | 2,600 |
| SVEW-02 | 45 - 60 | 8/11/05 | -0.12 | 0.05 | 15.01 | 0.50 | 17,820 |
| SVEW-02 | 45 - 60 | 9/20/05 | -3.0 | 0.06 | 15.34 | 5.86 | 16,560 |
| SVEW-02 | 45 - 60 | 10/13/05 | 0.24 | 0.06 | 15.24 | 0.84 | 16,740 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-02 | 45 - 60 | 11/21/05 | atm | 0.03 | 13.82 | 1.54 | 12,900 |
| SVEW-02 | 45 - 60 | 12/7/05 | -0.74 | 0.04 | 13.46 | 2.52 | 16,290 |
| SVEW-02 | 45 - 60 | 1/20/06 | 0.50 | -- | -- | -- | -- |
| SVEW-02 | 45 - 60 | 2/23/06 | -1.9 | -- | -- | -- | -- |
| SVEW-02 | 45 - 60 | 3/31/06 | 0.16 | 0.03 | 4.82 | 15.18 | 12,780 |
| SVEW-02 | 45 - 60 | 4/11/06 | 0.42 | 0.06 | 8.40 | 10.26 | 18,720 |
| SVEW-02 | 45 - 60 | 5/31/06 | -0.2 | 0.04 | 3.06 | 16.94 | 9,300 |
| SVEW-02 | 45 - 60 | 6/29/06 | -0.06 | 0.01 | 3.02 | 16.38 | 6,150 |
| SVEW-02 | 45 - 60 | 7/12/06 | -0.08 | 0.01 | 1.80 | 18.14 | 4,740 |
| SVEW-02 | 45 - 60 | 8/9/06 | -0.22 | 0.02 | 4.20 | 14.66 | 6,960 |
| SVEW-02 | 45 - 60 | 8/21/06 | -0.29 | 0.07 | 12.78 | 3.00 | 12,690 |
| SVEW-02 | 45 - 60 | 9/21/06 | 0.06 | 0.04 | 5.26 | 12.22 | 8,330 |
| SVEW-02 | 45 - 60 | 10/27/06 | 0.05 | 0.02 | 2.20 | 17.86 | 4,530 |
| SVEW-02 | 45 - 60 | 11/16/06 | 0.35 | 0.04 | 7.34 | 10.82 | 9,350 |
| SVEW-02 | 45 - 60 | 12/11/06 | 0.05 | 0.01 | 2.92 | 15.62 | 5,130 |
| SVEW-02 | 45 - 60 | 1/4/07 | 0.32 | 0.04 | 8.98 | 7.26 | 9,430 |
| SVEW-02 | 45 - 60 | 3/2/07 | atm | 0.11 | 10.90 | 3.80 | 27,000 |
| SVEW-02 | 45 - 60 | 3/16/07 | atm | 0.17 | 13.08 | 1.94 | 33,300 |
| SVEW-02 | 45 - 60 | 4/30/07 | atm | 0.19 | 1.04 | 19.56 | 15,858 |
| SVEW-02 | 45 - 60 | 5/18/07 | -1.5 | 0.06 | 9.92 | 7.42 | 13,545 |
| SVEW-02 | 45 - 60 | 6/29/07 | atm | 0.08 | 1.86 | 17.50 | 15,651 |
| SVEW-02 | 45 - 60 | 8/22/07 | atm | 0.09 | 12.12 | 2.80 | 15,660 |
| SVEW-02 | 45 - 60 | 9/28/07 | 0.03 | 0.10 | 14.78 | 1.74 | 19,080 |
| SVEW-02 | 45 - 60 | 10/15/07 | atm | 0.08 | 10.76 | 4.54 | 11,934 |
| SVEW-02 | 45 - 60 | 11/28/07 | atm | 0.00 | 0.02 | 0.00 | 134 |
| SVEW-02 | 45 - 60 | 1/24/08 | -0.5 | 0.06 | 4.20 | 14.76 | 9,018 |
| SVEW-02 | 45 - 60 | 2/29/08 | 0.18 | 0.01 | 2.32 | 20.22 | 4,810 |
| SVEW-02 | 45 - 60 | 3/6/08 | 0.50 | 0.01 | 4.08 | 13.44 | 4,160 |
| SVEW-02 | 45 - 60 | 4/17/08 | -- | 0.02 | 1.78 | 18.94 | 2930 |
| SVEW-02 | 45 - 60 | 5/14/08 | 0.12 | 0.01 | 3.02 | 15.84 | 4,530 |
| SVEW-02 | 45 - 60 | 6/25/08 | -0.18 | 0.02 | 3.18 | 17.54 | 3,720 |
| SVEW-02 | 45 - 60 | 7/17/08 | -0.15 | 0.01 | 2.86 | 16.98 | 3,520 |
| SVEW-02 | 45 - 60 | 9/30/08 | 0.17 | 0.01 | 2.56 | 18.00 | 3,010 |
| SVEW-02 | 45 - 60 | 10/24/08 | -0.08 | 0.02 | 3.82 | 15.48 | 3,610 |
| SVEW-02 | 45 - 60 | 11/25/08 | 0.60 | 0.02 | 6.72 | -- | 7,370 |
| SVEW-02 | 45 - 60 | 12/9/08 | 0.49 | 0.03 | 9.62 | 8.61 | 9,850 |
| SVEW-02 | 45 - 60 | 1/29/09 | atm | 0.00 | 0.68 | 21.89 | 1,243 |
| SVEW-02 | 45 - 60 | 2/17/09 | atm | 0.01 | 5.38 | 14.00 | 6,410 |
| SVEW-02 | 45 - 60 | 3/24/09 | -0.06 | 0.00 | 1.44 | 19.83 | 2,060 |
| SVEW-02 | 45 - 60 | 4/28/09 | -- | 0.00 | 4.82 | 13.55 | 4,330 |
| SVEW-02 | 45 - 60 | 5/11/09 | 0.36 | 0.01 | 4.99 | 14.99 | 3,930 |
| SVEW-02 | 45 - 60 | 6/23/09 | -- | 0.02 | 12.54 | 7.40 | 17,163 |
| SVEW-02 | 45 - 60 | 7/16/09 | 0.18 | 0.01 | 7.64 | 11.59 | 9,820 |
| SVEW-02 | 45 - 60 | 8/19/09 | 0.30 | 0.00 | 7.32 | 11.36 | 8,260 |
| SVEW-02 | 45 - 60 | 9/15/09 | -0.12 | 0.01 | 4.46 | 13.95 | 5,400 |
| SVEW-02 | 45 - 60 | 10/30/09 | -0.34 | 0.00 | 0.06 | 21.90 | 88 |
| SVEW-02 | 45 - 60 | 11/11/09 | 0.30 | 0.01 | 6.84 | 10.48 | 6,500 |
| SVEW-02 | 45 - 60 | 12/9/09 | ATM | 0.00 | 2.36 | 19.00 | 4,260 |
| SVEW-02 | 45 - 60 | 1/29/10 | 0.02 | 0.00 | 4.54 | 14.71 | 3,570 |
| SVEW-02 | 45 - 60 | 2/18/10 | 0.48 | 0.00 | 8.88 | 6.86 | 6,170 |
| SVEW-02 | 45 - 60 | 3/15/10 | -- | 0.01 | 8.40 | 8.45 | 6,150 |
| SVEW-02 | 45 - 60 | 5/14/10 | 0.20 | 0.00 | 3.36 | 15.80 | 2,530 |
| SVEW-02 | 45 - 60 | 6/29/10 | ATM | 0.00 | 0.64 | 20.35 | 1,025 |
| SVEW-03 | 145 - 160 | 7/16/04 | -- | 0.05 | 8.18 | 0.30 | 11,610 |
| SVEW-03 | 145 - 160 | 7/23/04 | -1.5 | 0.05 | 8.30 | 0.20 | 11,475 |
| SVEW-03 | 145 - 160 | 7/30/04 | 0.2 | 0.05 | 8.14 | 0.58 | 10,881 |
| SVEW-03 | 145 - 160 | 8/10/04 | -1.8 | 0.06 | 8.56 | 0.20 | 18,630 |
| SVEW-03 | 145 - 160 | 8/19/04 | -0.08 | 0.05 | 8.50 | 0.22 | 12,474 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-03 | 145 - 160 | 9/2/04 | -0.43 | 0.05 | 8.32 | 0.26 | 12,924 |
| SVEW-03 | 145 - 160 | 9/8/04 | -1.8 | -- | -- | -- | -- |
| SVEW-03 | 145 - 160 | 9/21/04 | -0.32 | 0.05 | 8.34 | 0.62 | 12,870 |
| SVEW-03 | 145 - 160 | 9/28/04 | -2.4 | -- | -- | -- | -- |
| SVEW-03 | 145 - 160 | 11/17/04 | 0.38 | 0.05 | 8.02 | 1.76 | 13,680 |
| SVEW-03 | 145 - 160 | 3/22/05 | -0.98 | 0.05 | 8.46 | 0.58 | 13,806 |
| SVEW-03 | 145 - 160 | 7/6/05 | -1.8 | 0.06 | 8.26 | 1.98 | 17,910 |
| SVEW-03 | 145 - 160 | 8/11/05 | 0.19 | 0.06 | 9.12 | 0.22 | 17,280 |
| SVEW-03 | 145 - 160 | 9/20/05 | -0.26 | 0.08 | 9.82 | 5.34 | 20,160 |
| SVEW-03 | 145 - 160 | 10/13/05 | -12.4 | 0.09 | 12.24 | 0.62 | 21,420 |
| SVEW-03 | 145 - 160 | 11/21/05 | -1.4 | 0.06 | 11.34 | 1.26 | 21,250 |
| SVEW-03 | 145 - 160 | 12/7/05 | 0.13 | 0.05 | 9.24 | 1.02 | 23,950 |
| SVEW-03 | 145 - 160 | 1/20/06 | 0.83 | 0.05 | 8.14 | 1.98 | 21,780 |
| SVEW-03 | 145 - 160 | 2/23/06 | -2.0 | 0.04 | 5.66 | 7.70 | 22,050 |
| SVEW-03 | 145 - 160 | 3/31/06 | -0.84 | 0.00 | 0.10 | 22.08 | 696 |
| SVEW-03 | 145 - 160 | 4/11/06 | 1.5 | 0.02 | 0.34 | 11.90 | 6,650 |
| SVEW-03 | 145 - 160 | 5/31/06 | -2.80 | 0.02 | 2.72 | 17.90 | 6,200 |
| SVEW-03 | 145 - 160 | 6/29/06 | -1.50 | 0.01 | 0.14 | 21.90 | 153 |
| SVEW-03 | 145 - 160 | 7/12/06 | -0.73 | 0.01 | 0.56 | 21.00 | 1,224 |
| SVEW-03 | 145 - 160 | 8/9/06 | -1.90 | 0.01 | 1.28 | 18.08 | 1,519 |
| SVEW-03 | 145 - 160 | 8/21/06 | -1.80 | 0.09 | 10.62 | 1.80 | 13,365 |
| SVEW-03 | 145 - 160 | 9/21/06 | 0.28 | 0.03 | 4.64 | 9.30 | 5,340 |
| SVEW-03 | 145 - 160 | 10/25/06 | -0.40 | 0.02 | 3.12 | 14.58 | 4,330 |
| SVEW-03 | 145 - 160 | 11/16/06 | 0.66 | 0.01 | 1.50 | 19.18 | 1,621 |
| SVEW-03 | 145 - 160 | 12/11/06 | 0.64 | 0.02 | 3.58 | 13.30 | 2,960 |
| SVEW-03 | 145 - 160 | 1/4/07 | 1.60 | 0.02 | 3.38 | 14.34 | 4,350 |
| SVEW-03 | 145 - 160 | 2/28/07 | 0.92 | 0.02 | 6.08 | 6.62 | 6,080 |
| SVEW-03 | 145 - 160 | 3/16/07 | -2.5 | 0.02 | 4.52 | 12.42 | 7,000 |
| SVEW-03 | 145 - 160 | 4/30/07 | -0.19 | 0.02 | 0.44 | 20.40 | 488 |
| SVEW-03 | 145 - 160 | 5/18/07 | 1.0 | 0.02 | 5.56 | 12.88 | 7,620 |
| SVEW-03 | 145 - 160 | 6/29/07 | -1.3 | 0.06 | 2.40 | 17.86 | 17,145 |
| SVEW-03 | 145 - 160 | 8/22/07 | 0.20 | 0.04 | 6.02 | 7.76 | 8,510 |
| SVEW-03 | 145 - 160 | 9/28/07 | 1.3 | 0.02 | 3.14 | 15.64 | 4,540 |
| SVEW-03 | 145 - 160 | 10/15/07 | 0.82 | 0.03 | 5.34 | 9.46 | 6,390 |
| SVEW-03 | 145 - 160 | 11/28/07 | -1.5 | 0.01 | 2.34 | 17.50 | 2,970 |
| SVEW-03 | 145 - 160 | 1/24/08 | -0.5 | 0.05 | 8.02 | 5.44 | 17,172 |
| SVEW-03 | 145 - 160 | 2/29/08 | 1.70 | 0.00 | 0.38 | 21.94 | 1,397 |
| SVEW-03 | 145 - 160 | 3/6/08 | 2.30 | 0.00 | 1.46 | 16.84 | 1,550 |
| SVEW-03 | 145 - 160 | 4/17/08 | -- | 0.01 | 2.96 | 14.64 | 3,970 |
| SVEW-03 | 145 - 160 | 5/14/08 | 0.66 | 0.01 | 1.38 | 19.24 | 1,687 |
| SVEW-03 | 145 - 160 | 6/25/08 | -1.5 | 0.02 | 2.80 | 17.24 | 5,030 |
| SVEW-03 | 145 - 160 | 7/17/08 | -0.76 | 0.01 | 2.10 | 17.58 | 3,020 |
| SVEW-03 | 145 - 160 | 9/30/08 | -0.98 | 0.01 | 1.76 | 17.82 | 2,120 |
| SVEW-03 | 145 - 160 | 10/24/08 | 0.30 | 0.01 | 1.30 | 18.50 | 1,347 |
| SVEW-03 | 145 - 160 | 11/25/08 | -1.00 | 0.02 | 2.16 | 26.60 | 3,860 |
| SVEW-03 | 145 - 160 | 12/9/08 | 2.95 | 0.01 | 12.26 | 5.30 | 2,830 |
| SVEW-03 | 145 - 160 | 1/29/09 | 1.60 | 0.00 | 0.04 | 23.00 | 453 |
| SVEW-03 | 145 - 160 | 2/17/09 | 0.94 | 0.01 | 4.72 | 12.95 | 5,640 |
| SVEW-03 | 145 - 160 | 3/24/09 | -0.48 | 0.00 | 4.48 | 13.75 | 6,130 |
| SVEW-03 | 145 - 160 | 4/28/09 | -- | 0.00 | 0.34 | 21.29 | 1,110 |
| SVEW-03 | 145 - 160 | 5/11/09 | -1.6 | 0.01 | 4.52 | 12.90 | 6,670 |
| SVEW-03 | 145 - 160 | 6/23/09 | -- | 0.03 | 9.84 | 5.15 | 13,347 |
| SVEW-03 | 145 - 160 | 7/16/09 | -0.12 | 0.00 | 0.26 | 20.10 | 1,607 |
| SVEW-03 | 145 - 160 | 8/19/09 | 1.0 | 0.02 | 10.32 | 5.56 | 15,831 |
| SVEW-03 | 145 - 160 | 9/15/09 | -1.2 | 0.00 | 3.14 | 16.29 | 4,810 |
| SVEW-03 | 145 - 160 | 10/30/09 | -1.10 | 0.00 | 0.70 | 20.96 | 2,120 |
| SVEW-03 | 145 - 160 | 11/11/09 | -1.2 | 0.00 | 0.68 | 19.92 | 654 |
| SVEW-03 | 145 - 160 | 12/9/09 | -0.08 | 0.01 | 6.98 | 11.04 | 6,910 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-03 | 145 - 160 | 1/29/10 | -0.80 | 0.00 | 0.98 | 19.65 | 306 |
| SVEW-03 | 145 - 160 | 2/18/10 | 0.90 | 0.00 | 2.96 | 15.67 | 2,470 |
| SVEW-03 | 145 - 160 | 3/15/10 | -- | 0.00 | 1.40 | 20.81 | 241 |
| SVEW-03 | 145 - 160 | 5/14/10 | -0.16 | 0.00 | 0.20 | 20.85 | 494 |
| SVEW-03 | 145 - 160 | 6/29/10 | -2.0 | 0.00 | 1.34 | 19.50 | 409 |
| SVEW-04 | 298 - 313 | 7/16/04 | -- | 0.04 | 0.78 | 15.80 | 19,980 |
| SVEW-04 | 298 - 313 | 7/23/04 | -1.5 | 0.04 | 0.84 | 16.02 | 20,520 |
| SVEW-04 | 298 - 313 | 7/30/04 | 0.30 | 0.05 | 0.88 | 16.00 | 20,070 |
| SVEW-04 | 298 - 313 | 8/10/04 | -1.8 | 0.04 | 0.98 | 15.36 | 20,520 |
| SVEW-04 | 298 - 313 | 8/19/04 | -0.01 | 0.01 | 0.12 | 20.44 | 21,240 |
| SVEW-04 | 298 - 313 | 9/2/04 | -0.55 | 0.05 | 1.22 | 15.44 | 20,610 |
| SVEW-04 | 298 - 313 | 9/8/04 | -2.0 | -- | -- | -- | -- |
| SVEW-04 | 298 - 313 | 9/21/04 | -0.14 | 0.04 | 0.92 | 15.60 | 17,910 |
| SVEW-04 | 298 - 313 | 9/23/04 | -5.0 | 0.04 | 0.78 | 15.64 | 25,200 |
| SVEW-04 | 298 - 313 | 9/28/04 | -6.6 | 0.04 | 0.76 | 15.88 | 25,380 |
| SVEW-04 | 298 - 313 | 11/17/04 | -18 | 0.04 | 0.68 | 16.20 | 24,750 |
| SVEW-04 | 298 - 313 | 3/22/05 | -19 | 0.04 | 0.62 | 15.86 | 23,130 |
| SVEW-04 | 298 - 313 | 7/6/05 | -1.8 | -- | -- | -- | -- |
| SVEW-04 | 298 - 313 | 8/11/05 | 0.32 | 0.03 | 1.44 | 14.84 | 16,560 |
| SVEW-04 | 298 - 313 | 9/20/05 | -3.0 | 0.01 | 4.62 | 17.08 | 2,110 |
| SVEW-04 | 298 - 313 | 10/13/05 | -2.1 | 0.01 | 4.56 | 15.14 | 1,872 |
| SVEW-04 | 298 - 313 | 11/21/05 | -2.8 | 0.02 | 4.06 | 15.32 | 12,450 |
| SVEW-04 | 298 - 313 | 12/7/05 | -1.0 | 0.03 | 1.12 | 17.10 | 16,150 |
| SVEW-04 | 298 - 313 | 1/20/06 | 0.08 | -- | -- | -- | -- |
| SVEW-04 | 298 - 313 | 2/23/06 | -1.6 | -- | -- | -- | -- |
| SVEW-04 | 298 - 313 | 3/31/06 | -7.8 | 0.08 | 1.20 | 16.70 | 23,490 |
| SVEW-04 | 298 - 313 | 4/11/06 | -10.0 | 0.01 | 3.80 | 20.02 | 4,880 |
| SVEW-04 | 298 - 313 | 5/31/06 | -8.6 | 2.03 | 6.94 | 15.92 | 41,130 |
| SVEW-04 | 298 - 313 | 6/29/06 | -3.8 | 0.11 | 1.04 | 16.24 | 24,480 |
| SVEW-04 | 298 - 313 | 7/12/06 | -3.2 | 0.12 | 1.10 | 16.26 | 23,670 |
| SVEW-04 | 298 - 313 | 8/9/06 | -4.2 | 0.11 | 1.02 | 15.48 | 24,570 |
| SVEW-04 | 298 - 313 | 8/21/06 | -1.9 | 0.09 | 1.06 | 16.58 | 18,000 |
| SVEW-04 | 298 - 313 | 9/21/06 | -5.7 | 0.12 | 1.04 | 16.58 | 28,620 |
| SVEW-04 | 298 - 313 | 10/27/06 | -10 | 0.10 | 1.10 | 16.68 | 37,980 |
| SVEW-04 | 298 - 313 | 11/16/06 | -17 | 0.14 | 1.02 | 15.98 | 50,670 |
| SVEW-04 | 298 - 313 | 12/11/06 | >-30 | 0.07 | 0.60 | 19.22 | 16,668 |
| SVEW-04 | 298 - 313 | 1/5/07 | -7.6 | 0.08 | 1.22 | 15.68 | 28,440 |
| SVEW-04 | 298 - 313 | 3/2/07 | -12 | 0.11 | 1.20 | 15.00 | 28,710 |
| SVEW-04 | 298 - 313 | 3/16/07 | -13 | 0.07 | 0.70 | 17.68 | 21,690 |
| SVEW-04 | 298 - 313 | 4/30/07 | -14 | 0.12 | 1.24 | 14.96 | 16,038 |
| SVEW-04 | 298 - 313 | 5/22/07 | -17.5 | 0.15 | 5.72 | 10.44 | 40,680 |
| SVEW-04 | 298 - 313 | 6/29/07 | -2.5 | 0.07 | 0.78 | 16.54 | 14,769 |
| SVEW-04 | 298 - 313 | 8/22/07 | -7.80 | 0.10 | 0.98 | 15.48 | 21,060 |
| SVEW-04 | 298 - 313 | 9/28/07 | -6.3 | 0.08 | 0.90 | 15.84 | 19,170 |
| SVEW-04 | 298 - 313 | 10/15/07 | -5.3 | 0.11 | 1.04 | 15.14 | 20,340 |
| SVEW-04 | 298 - 313 | 11/28/07 | -8.4 | 0.13 | 6.98 | 9.56 | 29,250 |
| SVEW-04 | 298 - 313 | 1/24/08 | -7.8 | 0.10 | 0.94 | 16.48 | 22,410 |
| SVEW-04 | 298 - 313 | 2/29/08 | < -30.0 | 0.19 | 1.52 | 18.10 | 53,640 |
| SVEW-04 | 298 - 313 | 3/6/08 | -9.20 | 0.04 | 0.86 | 15.94 | 23,220 |
| SVEW-04 | 298 - 313 | 4/17/08 | -- | 0.03 | 0.80 | 16.30 | 17,325 |
| SVEW-04 | 298 - 313 | 5/14/08 | -2.0 | 0.08 | 1.22 | 15.24 | 19,800 |
| SVEW-04 | 298 - 313 | 6/25/08 | -7.7 | 0.11 | 1.26 | 16.14 | 23,400 |
| SVEW-04 | 298 - 313 | 7/17/08 | -6.6 | 0.02 | 0.54 | 17.92 | 13,896 |
| SVEW-04 | 298 - 313 | 9/30/08 | -4.00 | 0.05 | 0.94 | 17.50 | 19,350 |
| SVEW-04 | 298 - 313 | 10/24/08 | 10.00 | 0.08 | 1.16 | 17.52 | 17,235 |
| SVEW-04 | 298 - 313 | 11/25/08 | -12.50 | 0.05 | 2.42 | -- | 20,430 |
| SVEW-04 | 298 - 313 | 12/9/08 | -5.00 | 0.15 | 3.40 | 17.03 | 20,250 |
| SVEW-04 | 298 - 313 | 1/29/09 | -7.50 | 0.00 | 1.22 | 17.87 | 11,439 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-04 | 298 - 313 | 2/17/09 | -0.32 | 0.02 | 1.58 | 17.77 | 22,050 |
| SVEW-04 | 298 - 313 | 3/24/09 | -7.0 | 0.00 | 1.22 | 17.74 | 14,940 |
| SVEW-04 | 298 - 313 | 4/28/09 | -- | 0.01 | 1.56 | 16.25 | 18,000 |
| SVEW-04 | 298 - 313 | 5/11/09 | -13 | 0.00 | 0.82 | 18.15 | 8,580 |
| SVEW-04 | 298 - 313 | 6/23/09 | -- | 0.01 | 1.14 | 17.60 | 10,530 |
| SVEW-04 | 298 - 313 | 7/16/09 | 0.04 | 0.00 | 0.66 | 18.25 | 5,480 |
| SVEW-04 | 298 - 313 | 8/19/09 | -1.5 | 0.00 | 1.04 | 17.93 | 8,950 |
| SVEW-04 | 298 - 313 | 9/15/09 | -8.2 | 0.00 | 0.94 | 18.27 | 7,500 |
| SVEW-04 | 298 - 313 | 10/30/09 | -1.20 | 0.01 | 1.06 | 19.01 | 8,230 |
| SVEW-04 | 298 - 313 | 11/11/09 | -2.8 | 0.00 | 0.92 | 18.25 | 6,250 |
| SVEW-04 | 298 - 313 | 12/9/09 | 0.04 | 0.00 | 1.04 | 19.67 | 8,310 |
| SVEW-04 | 298 - 313 | 1/29/10 | -0.16 | 0.00 | 1.58 | 17.69 | 4,760 |
| SVEW-04 | 298 - 313 | 2/18/10 | 2.5 | 0.00 | 1.14 | 17.57 | 5,700 |
| SVEW-04 | 298 - 313 | 3/15/10 | -- | 0.00 | 2.76 | 18.22 | 4,780 |
| SVEW-04 | 298 - 313 | 5/14/10 | -0.23 | 0.00 | 2.02 | 18.96 | 460 |
| SVEW-04 | 298 - 313 | 6/29/10 | -2.5 | 0.00 | 0.34 | 20.70 | 899 |
| SVEW-05 | 445 - 460 | 7/16/04 | -- | 0.03 | 0.90 | 15.20 | 20,880 |
| SVEW-05 | 445 - 460 | 7/23/04 | -1.5 | 0.03 | 1.00 | 14.08 | 19,800 |
| SVEW-05 | 445 - 460 | 7/30/04 | 0.32 | 0.04 | 1.02 | 14.56 | 18,450 |
| SVEW-05 | 445 - 460 | 8/10/04 | -1.8 | 0.04 | 1.68 | 13.08 | 18,630 |
| SVEW-05 | 445 - 460 | 8/19/04 | 0.00 | 0.04 | 0.80 | 14.54 | 22,050 |
| SVEW-05 | 445 - 460 | 9/2/04 | -0.54 | 0.04 | 0.88 | 14.76 | 21,690 |
| SVEW-05 | 445 - 460 | 9/8/04 | -2.0 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 9/21/04 | -0.13 | 0.03 | 1.88 | 11.82 | 22,500 |
| SVEW-05 | 445 - 460 | 9/23/04 | -4.9 | 0.04 | 1.30 | 11.10 | 29,880 |
| SVEW-05 | 445 - 460 | 9/28/04 | -6.6 | 0.03 | 1.16 | 10.04 | 34,470 |
| SVEW-05 | 445 - 460 | 11/17/04 | -15 | 0.03 | 2.00 | 8.66 | 38,430 |
| SVEW-05 | 445 - 460 | 3/22/05 | -18 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 7/6/05 | -1.7 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 8/11/05 | -3.0 | 0.03 | 4.52 | 5.62 | 48,780 |
| SVEW-05 | 445 - 460 | 9/20/05 | -4.0 | 0.02 | 4.18 | 10.50 | 56,700 |
| SVEW-05 | 445 - 460 | 10/13/05 | -13 | 0.05 | 4.64 | 6.36 | 45,180 |
| SVEW-05 | 445 - 460 | 11/21/05 | -9.4 | | 3.04 | 9.38 | 50,490 |
| SVEW-05 | 445 - 460 | 12/7/05 | -12.0 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 1/20/06 | -14 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 2/23/06 | -15.5 | 0.03 | 0.86 | 15.12 | 26,280 |
| SVEW-05 | 445 - 460 | 3/31/06 | -7.8 | 0.09 | 4.50 | 4.59 | 63,450 |
| SVEW-05 | 445 - 460 | 4/11/06 | -9.0 | 0.15 | 3.82 | 12.76 | 22,410 |
| SVEW-05 | 445 - 460 | 5/31/06 | -8.6 | 8.43 | 27.92 | 9.06 | 100,980 |
| SVEW-05 | 445 - 460 | 6/29/06 | -3.8 | 0.12 | 3.96 | 9.24 | 60,390 |
| SVEW-05 | 445 - 460 | 7/12/06 | -3.1 | 0.15 | 3.94 | 12.26 | 36,630 |
| SVEW-05 | 445 - 460 | 8/9/06 | -4.1 | 0.15 | 6.14 | 8.60 | 37,530 |
| SVEW-05 | 445 - 460 | 8/21/06 | -2.1 | -- | -- | -- | -- |
| SVEW-05 | 445 - 460 | 9/21/06 | -5.8 | 0.15 | 5.82 | 8.64 | 73,890 |
| SVEW-05 | 445 - 460 | 10/27/06 | -10 | 0.16 | 4.10 | 12.64 | 52,380 |
| SVEW-05 | 445 - 460 | 11/16/06 | -9 | 0.15 | 6.24 | 15.10 | 36,180 |
| SVEW-05 | 445 - 460 | 12/11/06 | atm | 0.05 | 2.04 | 15.54 | 13,734 |
| SVEW-05 | 445 - 460 | 1/5/07 | atm | 0.11 | 6.32 | 4.24 | 43,470 |
| SVEW-05 | 445 - 460 | 3/2/07 | 0.04 | 0.13 | 7.42 | 4.08 | 34,110 |
| SVEW-05 | 445 - 460 | 3/16/07 | -2.4 | 0.00 | 0.16 | 20.40 | 1,379 |
| SVEW-05 | 445 - 460 | 4/30/07 | -0.32 | 0.01 | 0.30 | 18.36 | 3,380 |
| SVEW-05 | 445 - 460 | 5/22/07 | -3.4 | 0.08 | 0.82 | 16.36 | 22,590 |
| SVEW-05 | 445 - 460 | 6/29/07 | atm | 0.05 | 0.32 | 19.98 | 11,925 |
| SVEW-05 | 445 - 460 | 8/22/07 | -0.20 | 0.05 | 1.86 | 15.42 | 34,920 |
| SVEW-05 | 445 - 460 | 9/28/07 | 1.2 | 0.01 | 1.70 | 14.46 | 3,280 |
| SVEW-05 | 445 - 460 | 10/15/07 | 0.86 | 0.12 | 10.44 | 1.74 | 24,210 |
| SVEW-05 | 445 - 460 | 11/28/07 | -1.4 | 0.00 | 0.20 | 20.32 | 403 |
| SVEW-05 | 445 - 460 | 1/24/08 | -1.2 | 0.22 | 7.76 | 3.56 | 34,470 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-05 | 445 - 460 | 2/29/08 | -2.70 | 0.17 | 7.62 | 5.72 | 47,430 |
| SVEW-05 | 445 - 460 | 3/6/08 | 2.00 | 0.05 | 5.40 | 5.38 | 39,150 |
| SVEW-05 | 445 - 460 | 4/17/08 | -- | 0.07 | 5.04 | 7.92 | 22,500 |
| SVEW-05 | 445 - 460 | 5/14/08 | 0.12 | 0.11 | 6.04 | 3.04 | 58,590 |
| SVEW-05 | 445 - 460 | 6/25/08 | -1.8 | 0.20 | 6.82 | 5.14 | 41,760 |
| SVEW-05 | 445 - 460 | 7/17/08 | -1.25 | 0.06 | 5.02 | 7.58 | 23,400 |
| SVEW-05 | 445 - 460 | 9/30/08 | -1.30 | 0.15 | 6.12 | 7.30 | 46,170 |
| SVEW-05 | 445 - 460 | 10/24/08 | -10.00 | 0.10 | 4.80 | 4.54 | 56,430 |
| SVEW-05 | 445 - 460 | 11/25/08 | -13.00 | 0.06 | 5.06 | 14.76 | 44,100 |
| SVEW-05 | 445 - 460 | 12/9/08 | -4.80 | 0.00 | 0.10 | 22.15 | 1,029 |
| SVEW-05 | 445 - 460 | 1/29/09 | -2.60 | 0.00 | 5.92 | 9.04 | 30,150 |
| SVEW-05 | 445 - 460 | 2/17/09 | -4.00 | 0.02 | 6.36 | 9.40 | 37,890 |
| SVEW-05 | 445 - 460 | 3/24/09 | -0.78 | 0.01 | 5.96 | 8.68 | 23,760 |
| SVEW-05 | 445 - 460 | 4/28/09 | -- | 0.03 | 5.74 | 6.29 | 43,110 |
| SVEW-05 | 445 - 460 | 5/11/09 | -13.1 | 0.00 | 0.66 | 19.99 | 11,610 |
| SVEW-05 | 445 - 460 | 6/23/09 | -- | 0.01 | 4.64 | 10.06 | 25,020 |
| SVEW-05 | 445 - 460 | 7/16/09 | -6.20 | 0.02 | 4.24 | 12.13 | 26,280 |
| SVEW-05 | 445 - 460 | 8/19/09 | 0.54 | 0.01 | 3.46 | 13.14 | 16,245 |
| SVEW-05 | 445 - 460 | 9/15/09 | -1.3 | 0.03 | 4.20 | 10.64 | 23,670 |
| SVEW-05 | 445 - 460 | 10/30/09 | -1.20 | 0.03 | 3.62 | 18.05 | 27,270 |
| SVEW-05 | 445 - 460 | 11/11/09 | -1.3 | 0.02 | 4.16 | 16.40 | 33,750 |
| SVEW-05 | 445 - 460 | 12/9/09 | 0.46 | 0.02 | 2.06 | 19.18 | 30,330 |
| SVEW-05 | 445 - 460 | 1/29/10 | -1.2 | 0.00 | 5.86 | 9.69 | 14,931 |
| SVEW-05 | 445 - 460 | 2/18/10 | 1.8 | 0.00 | 3.14 | 16.89 | 33,120 |
| SVEW-05 | 445 - 460 | 3/15/10 | -- | 0.00 | 5.50 | 16.41 | 24,930 |
| SVEW-05 | 445 - 460 | 5/14/10 | -0.50 | 0.00 | 3.76 | 17.00 | 17,955 |
| SVEW-05 | 445 - 460 | 6/29/10 | -3.0 | 0.00 | 1.76 | 17.71 | 15,183 |
| SVEW-06 | 45 - 60 | 7/16/04 | -- | 0.03 | 10.82 | 1.78 | 5,229 |
| SVEW-06 | 45 - 60 | 7/23/04 | -0.12 | 0.03 | 11.78 | 0.22 | 5,390 |
| SVEW-06 | 45 - 60 | 7/30/04 | 0.22 | 0.03 | 9.84 | 2.52 | 5,700 |
| SVEW-06 | 45 - 60 | 8/10/04 | 0.22 | 0.02 | 12.06 | 0.26 | 5,010 |
| SVEW-06 | 45 - 60 | 8/19/04 | -0.12 | 0.03 | 11.66 | 0.52 | 6,520 |
| SVEW-06 | 45 - 60 | 9/2/04 | 0.04 | 0.04 | 12.32 | 0.20 | 5,290 |
| SVEW-06 | 45 - 60 | 9/8/04 | -0.14 | -- | -- | -- | -- |
| SVEW-06 | 45 - 60 | 9/21/04 | -0.07 | 0.03 | 11.20 | 1.58 | 6,590 |
| SVEW-06 | 45 - 60 | 11/17/04 | 0.26 | 0.02 | 11.20 | 2.28 | 5,958 |
| SVEW-06 | 45 - 60 | 3/22/05 | -0.6 | 0.03 | 13.10 | 0.42 | 6,210 |
| SVEW-06 | 45 - 60 | 7/6/05 | atm | -- | -- | -- | -- |
| SVEW-06 | 45 - 60 | 8/11/05 | 0.32 | 0.03 | 12.01 | 0.70 | 8,840 |
| SVEW-06 | 45 - 60 | 9/20/05 | -0.62 | 0.02 | 12.70 | 6.62 | 5,240 |
| SVEW-06 | 45 - 60 | 10/13/05 | -0.22 | 0.01 | 12.72 | 1.10 | 6,120 |
| SVEW-06 | 45 - 60 | 11/21/05 | -3.4 | 0.02 | 9.20 | 5.02 | 19,350 |
| SVEW-06 | 45 - 60 | 12/7/05 | 2.0 | -- | -- | -- | -- |
| SVEW-06 | 45 - 60 | 1/20/06 | 0.44 | -- | -- | -- | -- |
| SVEW-06 | 45 - 60 | 2/23/06 | -2.1 | -- | -- | -- | -- |
| SVEW-06 | 45 - 60 | 3/31/06 | 0.18 | 0.02 | 4.90 | 13.80 | 5,080 |
| SVEW-06 | 45 - 60 | 4/11/06 | 0.45 | 0.02 | 8.16 | 9.00 | 3,800 |
| SVEW-06 | 45 - 60 | 5/31/06 | -0.15 | 0.01 | 2.12 | 18.34 | 1,201 |
| SVEW-06 | 45 - 60 | 6/29/06 | -0.04 | 0.01 | 1.96 | 17.60 | 1,133 |
| SVEW-06 | 45 - 60 | 7/12/06 | -0.09 | 0.01 | 1.42 | 18.76 | 880 |
| SVEW-06 | 45 - 60 | 8/9/06 | -0.19 | 0.01 | 2.64 | 16.14 | 1,207 |
| SVEW-06 | 45 - 60 | 8/21/06 | -0.24 | 0.02 | 11.20 | 3.00 | 3,410 |
| SVEW-06 | 45 - 60 | 9/21/06 | 0.06 | 0.02 | 5.12 | 12.84 | 2,340 |
| SVEW-06 | 45 - 60 | 10/27/06 | 0.06 | 0.01 | 1.56 | 18.42 | 755 |
| SVEW-06 | 45 - 60 | 11/16/06 | 0.7 | 0.02 | 6.78 | 10.24 | 1,953 |
| SVEW-06 | 45 - 60 | 12/11/06 | 0.05 | 0.01 | 3.00 | 15.34 | 1,158 |
| SVEW-06 | 45 - 60 | 1/4/07 | 0.29 | 0.02 | 8.24 | 8.16 | 2,000 |
| SVEW-06 | 45 - 60 | 2/28/07 | 0.2 | 0.02 | 8.14 | 8.18 | 3,130 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-06 | 45 - 60 | 3/16/07 | atm | 0.01 | 2.58 | 16.54 | 729 |
| SVEW-06 | 45 - 60 | 4/30/07 | 0.11 | 0.02 | 7.00 | 10.06 | 1,688 |
| SVEW-06 | 45 - 60 | 5/18/07 | 0.10 | 0.02 | 5.06 | 12.44 | 1,292 |
| SVEW-06 | 45 - 60 | 6/29/07 | -0.05 | 0.01 | 4.30 | 11.84 | 1,103 |
| SVEW-06 | 45 - 60 | 8/22/07 | 0.40 | 0.02 | 5.58 | 11.50 | 1,615 |
| SVEW-06 | 45 - 60 | 9/28/07 | 0.46 | 0.02 | 7.72 | 8.52 | 2,180 |
| SVEW-06 | 45 - 60 | 10/15/07 | 0.21 | 0.02 | 6.24 | 10.64 | 1,762 |
| SVEW-06 | 45 - 60 | 11/28/07 | 0.20 | 0.01 | 3.50 | 14.94 | 1,048 |
| SVEW-06 | 45 - 60 | 1/24/08 | -0.5 | 0.01 | 2.04 | 17.54 | 1,074 |
| SVEW-06 | 45 - 60 | 2/29/08 | 0.22 | 0.00 | 2.48 | 23.16 | 711 |
| SVEW-06 | 45 - 60 | 3/6/08 | 0.48 | 0.01 | 3.78 | 14.58 | 820 |
| SVEW-06 | 45 - 60 | 4/17/08 | -- | 0.02 | 1.60 | 19.26 | 486 |
| SVEW-06 | 45 - 60 | 5/14/08 | 0.12 | 0.00 | 0.90 | 19.44 | 535 |
| SVEW-06 | 45 - 60 | 6/25/08 | -0.14 | 0.00 | 1.02 | 19.14 | 733 |
| SVEW-06 | 45 - 60 | 7/17/08 | -0.09 | 0.01 | 1.06 | 19.64 | 674 |
| SVEW-06 | 45 - 60 | 9/30/08 | 0.16 | 0.00 | 0.38 | 20.90 | 391 |
| SVEW-06 | 45 - 60 | 10/24/08 | -0.10 | 0.01 | 2.40 | 17.10 | 588 |
| SVEW-06 | 45 - 60 | 11/25/08 | 0.95 | 0.00 | 3.02 | -- | 963 |
| SVEW-06 | 45 - 60 | 12/9/08 | 0.46 | 0.00 | 0.26 | 22.22 | 656 |
| SVEW-06 | 45 - 60 | 1/29/09 | atm | 0.00 | 0.22 | 21.51 | 301 |
| SVEW-06 | 45 - 60 | 2/17/09 | 0.02 | 0.00 | 3.94 | 16.35 | 1,389 |
| SVEW-06 | 45 - 60 | 3/24/09 | -0.12 | 0.00 | 0.58 | 21.17 | 443 |
| SVEW-06 | 45 - 60 | 4/28/09 | -- | 0.01 | 3.96 | 14.81 | 1,004 |
| SVEW-06 | 45 - 60 | 5/11/09 | 0.36 | 0.01 | 4.78 | 12.52 | 1,234 |
| SVEW-06 | 45 - 60 | 6/23/09 | -.08 | 0.00 | 0.10 | 21.43 | 240 |
| SVEW-06 | 45 - 60 | 7/16/09 | 0.26 | 0.00 | 5.54 | 11.94 | 1,135 |
| SVEW-06 | 45 - 60 | 8/19/09 | 0.32 | 0.00 | 6.16 | 12.00 | 1,167 |
| SVEW-06 | 45 - 60 | 9/15/09 | -0.02 | 0.00 | 0.88 | 19.31 | 364 |
| SVEW-06 | 45 - 60 | 10/30/09 | -0.20 | 0.00 | 0.02 | 22.35 | 218 |
| SVEW-06 | 45 - 60 | 11/11/09 | 0.32 | 0.00 | 4.78 | 13.27 | 845 |
| SVEW-06 | 45 - 60 | 12/9/09 | atm | 0.00 | 1.60 | 20.36 | 706 |
| SVEW-06 | 45 - 60 | 1/29/10 | 0.20 | 0.00 | 3.08 | 16.48 | 819 |
| SVEW-06 | 45 - 60 | 2/18/10 | 0.45 | 0.01 | 7.90 | 8.40 | 1,353 |
| SVEW-06 | 45 - 60 | 3/15/10 | -- | 0.01 | 5.76 | 10.29 | 1,460 |
| SVEW-06 | 45 - 60 | 5/14/10 | 0.28 | 0.00 | 2.98 | 16.50 | 516 |
| SVEW-06 | 45 - 60 | 6/29/10 | 0.03 | 0.00 | 0.10 | 21.19 | 435 |
| SVEW-07 | 145 - 160 | 7/16/04 | -- | 0.14 | 6.94 | 2.94 | 26,550 |
| SVEW-07 | 145 - 160 | 7/23/04 | -1.5 | 0.13 | 7.22 | 2.42 | 28,080 |
| SVEW-07 | 145 - 160 | 7/30/04 | 0.19 | 0.14 | 5.92 | 3.72 | 31,230 |
| SVEW-07 | 145 - 160 | 8/10/04 | -1.6 | 0.14 | 8.14 | 1.74 | 24,030 |
| SVEW-07 | 145 - 160 | 8/19/04 | -0.14 | 0.13 | 6.52 | 3.38 | 28,080 |
| SVEW-07 | 145 - 160 | 9/2/04 | -0.38 | 0.16 | 7.72 | 2.42 | 25,110 |
| SVEW-07 | 145 - 160 | 9/8/04 | -1.8 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 9/21/04 | -0.34 | 0.12 | 5.66 | 4.24 | 32,580 |
| SVEW-07 | 145 - 160 | 11/17/04 | 0.36 | 0.04 | 1.78 | 14.70 | 24,030 |
| SVEW-07 | 145 - 160 | 3/22/05 | -22 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 7/6/05 | -12.0 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 8/11/05 | -7.4 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 9/20/05 | -6.90 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 10/13/05 | -5.7 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 11/21/05 | -3.3 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 1/20/06 | 1.0 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 2/23/06 | 0.38 | -- | -- | -- | -- |
| SVEW-07 | 145 - 160 | 3/31/06 | -0.82 | 0.01 | 0.36 | 20.90 | 1,350 |
| SVEW-07 | 145 - 160 | 4/11/06 | 1.6 | 0.04 | 2.42 | 14.60 | 8,160 |
| SVEW-07 | 145 - 160 | 5/31/06 | -2.8 | 0.00 | 6.48 | 20.06 | 761 |
| SVEW-07 | 145 - 160 | 6/29/06 | -1.5 | 0.00 | 0.06 | 20.88 | 63 |
| SVEW-07 | 145 - 160 | 7/12/06 | -0.7 | 0.00 | 0.20 | 20.78 | 209 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-07 | 145 - 160 | 8/9/06 | -1.9 | 0.01 | 0.36 | 20.50 | 218 |
| SVEW-07 | 145 - 160 | 8/21/06 | -1.8 | 0.11 | 7.50 | 6.16 | 10,764 |
| SVEW-07 | 145 - 160 | 9/21/06 | 0.33 | 0.07 | 3.56 | 12.58 | 8,860 |
| SVEW-07 | 145 - 160 | 10/27/06 | -0.39 | 0.00 | 0.62 | 20.76 | 333 |
| SVEW-07 | 145 - 160 | 11/16/06 | 0.38 | 0.01 | 0.76 | 19.02 | 885 |
| SVEW-07 | 145 - 160 | 12/11/06 | 0.61 | 0.03 | 2.42 | 14.54 | 3,110 |
| SVEW-07 | 145 - 160 | 1/4/07 | 1.7 | 0.03 | 2.16 | 16.00 | 4,050 |
| SVEW-07 | 145 - 160 | 2/28/07 | 0.91 | 0.09 | 4.24 | 11.36 | 12,852 |
| SVEW-07 | 145 - 160 | 3/16/07 | -2.4 | 0.01 | 0.42 | 20.62 | 274 |
| SVEW-07 | 145 - 160 | 4/30/07 | -0.22 | 0.02 | 0.80 | 18.42 | 1,803 |
| SVEW-07 | 145 - 160 | 5/18/07 | -8.0 | 0.01 | 0.38 | 20.88 | 183 |
| SVEW-07 | 145 - 160 | 6/29/07 | -1.30 | 0.01 | 0.36 | 20.52 | 1,265 |
| SVEW-07 | 145 - 160 | 8/22/07 | 0.70 | 0.05 | 3.84 | 11.60 | 5,180 |
| SVEW-07 | 145 - 160 | 9/28/07 | 1.2 | 0.21 | 7.72 | 6.22 | 21,060 |
| SVEW-07 | 145 - 160 | 10/15/07 | 0.83 | 0.06 | 3.64 | 12.96 | 8,890 |
| SVEW-07 | 145 - 160 | 11/28/07 | -1.5 | 0.00 | 0.30 | 20.50 | 340 |
| SVEW-07 | 145 - 160 | 1/24/08 | -0.3 | 0.03 | 2.86 | 13.90 | 4,460 |
| SVEW-07 | 145 - 160 | 2/29/08 | -1.70 | 0.00 | 0.12 | 27.94 | 984 |
| SVEW-07 | 145 - 160 | 3/6/08 | 2.40 | 0.01 | 0.60 | 19.10 | 776 |
| SVEW-07 | 145 - 160 | 4/17/08 | -- | 0.02 | 8.58 | 21.48 | 853 |
| SVEW-07 | 145 - 160 | 5/14/08 | 0.66 | 0.01 | 0.38 | 19.86 | 787 |
| SVEW-07 | 145 - 160 | 6/25/08 | -1.4 | 0.00 | 0.18 | 21.36 | 300 |
| SVEW-07 | 145 - 160 | 7/17/08 | -0.75 | 0.00 | 0.12 | 22.38 | 207 |
| SVEW-07 | 145 - 160 | 9/30/08 | -0.92 | 0.00 | 0.14 | 21.08 | 506 |
| SVEW-07 | 145 - 160 | 10/24/08 | -0.36 | 0.00 | 0.38 | 19.80 | 576 |
| SVEW-07 | 145 - 160 | 11/25/08 | -0.94 | 0.00 | 0.28 | -- | 456 |
| SVEW-07 | 145 - 160 | 12/9/08 | 2.30 | 0.07 | 6.66 | 10.45 | 7,590 |
| SVEW-07 | 145 - 160 | 1/29/09 | -1.90 | 0.00 | 0.04 | 21.86 | 162 |
| SVEW-07 | 145 - 160 | 2/17/09 | 2.00 | 0.02 | 2.52 | 17.04 | 4,300 |
| SVEW-07 | 145 - 160 | 3/24/09 | -0.28 | 0.01 | 1.02 | 19.92 | 2,090 |
| SVEW-07 | 145 - 160 | 4/28/09 | -- | 0.05 | 5.70 | 11.84 | 19,080 |
| SVEW-07 | 145 - 160 | 5/11/09 | -1.2 | 0.02 | 1.96 | 17.59 | 7,030 |
| SVEW-07 | 145 - 160 | 6/23/09 | -1.2 | 0.00 | 0.00 | 21.57 | 221 |
| SVEW-07 | 145 - 160 | 7/16/09 | -1.20 | 0.00 | 0.08 | 20.97 | 113 |
| SVEW-07 | 145 - 160 | 8/19/09 | 1.1 | 0.01 | 1.78 | 17.42 | 2,010 |
| SVEW-07 | 145 - 160 | 9/15/09 | -0.96 | 0.00 | 0.14 | 20.76 | 149 |
| SVEW-07 | 145 - 160 | 10/30/09 | -1.00 | 0.00 | 0.12 | 22.16 | 865 |
| SVEW-07 | 145 - 160 | 11/11/09 | -0.60 | 0.00 | 0.10 | 19.19 | 174 |
| SVEW-07 | 145 - 160 | 12/9/09 | -0.04 | 0.02 | 3.14 | 15.02 | 4,340 |
| SVEW-07 | 145 - 160 | 1/29/10 | -0.81 | 0.00 | 0.06 | 21.73 | 319 |
| SVEW-07 | 145 - 160 | 2/18/10 | 2 | 0.00 | 1.86 | 16.59 | 1,466 |
| SVEW-07 | 145 - 160 | 3/15/10 | -- | 0.00 | 0.84 | 21.01 | 571 |
| SVEW-07 | 145 - 160 | 5/14/10 | -0.23 | 0.00 | 0.18 | 20.90 | 179 |
| SVEW-07 | 145 - 160 | 6/29/10 | -2.0 | 0.00 | 0.02 | 21.11 | 284 |
| SVEW-08 | 245 - 260 | 7/16/04 | -- | 0.01 | 0.58 | 18.96 | 18,630 |
| SVEW-08 | 245 - 260 | 7/23/04 | -12.2 | 0.03 | 1.42 | 15.52 | 21,240 |
| SVEW-08 | 245 - 260 | 7/30/04 | -9.0 | 0.04 | 1.30 | 14.98 | 29,880 |
| SVEW-08 | 245 - 260 | 8/10/04 | -13.5 | 0.05 | 1.98 | 13.68 | 24,570 |
| SVEW-08 | 245 - 260 | 8/17/04 | na | 0.02 | 0.90 | 16.52 | 21,060 |
| SVEW-08 | 245 - 260 | 8/19/04 | -9.8 | 0.04 | 1.18 | 15.54 | 25,650 |
| SVEW-08 | 245 - 260 | 9/2/04 | -10.0 | 0.04 | 1.76 | 14.34 | 23,040 |
| SVEW-08 | 245 - 260 | 9/8/04 | -12.5 | -- | -- | -- | -- |
| SVEW-08 | 245 - 260 | 9/21/04 | -13.0 | 0.05 | 2.62 | 11.29 | 31,860 |
| SVEW-08 | 245 - 260 | 9/23/04 | -5.1 | 0.07 | 4.88 | 7.34 | 28,710 |
| SVEW-08 | 245 - 260 | 9/28/04 | -6.8 | 0.08 | 5.38 | 7.50 | 30,870 |
| SVEW-08 | 245 - 260 | 11/17/04 | -17 | 0.02 | 0.70 | 11.34 | 40,320 |
| SVEW-08 | 245 - 260 | 3/22/05 | -18 | -- | -- | -- | -- |
| SVEW-08 | 245 - 260 | 7/6/05 | -1.6 | -- | -- | -- | -- |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-08 | 245 - 260 | 8/11/05 | -3.0 | 0.03 | 0.94 | 14.82 | 16,407 |
| SVEW-08 | 245 - 260 | 9/20/05 | -3.8 | 0.04 | 2.96 | 14.20 | 21,870 |
| SVEW-08 | 245 - 260 | 10/13/05 | -13 | 0.05 | 1.68 | 11.50 | 28,080 |
| SVEW-08 | 245 - 260 | 11/21/05 | -8.8 | 0.02 | 4.10 | 10.86 | 14,850 |
| SVEW-08 | 245 - 260 | 12/7/05 | -13.2 | 0.02 | 1.52 | 16.44 | 33,650 |
| SVEW-08 | 245 - 260 | 1/20/06 | -15.5 | 0.03 | 3.20 | 10.08 | 25,920 |
| SVEW-08 | 245 - 260 | 2/23/06 | -15.5 | 0.02 | 4.66 | 6.56 | 26,640 |
| SVEW-08 | 245 - 260 | 3/31/06 | -7.8 | 0.05 | 4.66 | 12.34 | 15,840 |
| SVEW-08 | 245 - 260 | 4/11/06 | -10.5 | 0.07 | 4.02 | 11.92 | 19,530 |
| SVEW-08 | 245 - 260 | 5/31/06 | -8.6 | 0.23 | 8.82 | 12.00 | 17,532 |
| SVEW-08 | 245 - 260 | 6/29/06 | -3.9 | 0.05 | 5.92 | 10.56 | 14,535 |
| SVEW-08 | 245 - 260 | 7/12/06 | -3.1 | 0.05 | 6.08 | 10.50 | 13,140 |
| SVEW-08 | 245 - 260 | 8/9/06 | -4.2 | 0.04 | 6.24 | 10.82 | 7,983 |
| SVEW-08 | 245 - 260 | 8/21/06 | -1.9 | 0.03 | 7.32 | 9.72 | 8,964 |
| SVEW-08 | 245 - 260 | 9/21/06 | -5.8 | 0.08 | 6.26 | 10.22 | 18,990 |
| SVEW-08 | 245 - 260 | 10/27/06 | -12 | 0.14 | 3.24 | 10.22 | 45,900 |
| SVEW-08 | 245 - 260 | 11/16/06 | -17 | 0.10 | 1.04 | 17.38 | 38,430 |
| SVEW-08 | 245 - 260 | 12/11/06 | 0.63 | 0.05 | 2.66 | 10.96 | 13,905 |
| SVEW-08 | 245 - 260 | 1/5/07 | -6.8 | 0.01 | 3.90 | 11.14 | 25,380 |
| SVEW-08 | 245 - 260 | 2/28/07 | -11.5 | 0.13 | 3.70 | 8.24 | 30,600 |
| SVEW-08 | 245 - 260 | 3/16/07 | -14 | 0.05 | 1.58 | 15.20 | 16,884 |
| SVEW-08 | 245 - 260 | 4/30/07 | -14 | 0.08 | 2.70 | 12.28 | 14,040 |
| SVEW-08 | 245 - 260 | 5/18/07 | -19 | 0.10 | 2.68 | 12.90 | 19,080 |
| SVEW-08 | 245 - 260 | 6/29/07 | -2.40 | 0.01 | 0.94 | 15.72 | 4,600 |
| SVEW-08 | 245 - 260 | 8/22/07 | -8.00 | 0.12 | 2.86 | 10.14 | 27,720 |
| SVEW-08 | 245 - 260 | 9/28/07 | -6.2 | 0.11 | 3.10 | 9.40 | 26,820 |
| SVEW-08 | 245 - 260 | 10/15/07 | -0.53 | 0.13 | 3.34 | 7.66 | 35,550 |
| SVEW-08 | 245 - 260 | 11/28/07 | -7.4 | 0.11 | 2.96 | 10.62 | 36,630 |
| SVEW-08 | 245 - 260 | 1/24/08 | -8.5 | 0.13 | 2.72 | 12.44 | 25,920 |
| SVEW-08 | 245 - 260 | 2/29/08 | < -30.0 | 0.19 | 3.04 | 15.20 | 40,860 |
| SVEW-08 | 245 - 260 | 3/6/08 | -7.20 | 0.04 | 2.22 | 10.64 | 29,610 |
| SVEW-08 | 245 - 260 | 4/17/08 | -- | 0.05 | 2.32 | 9.20 | 30,870 |
| SVEW-08 | 245 - 260 | 5/14/08 | -2.0 | 0.10 | 2.58 | 11.46 | 29,610 |
| SVEW-08 | 245 - 260 | 6/25/08 | -7.6 | 0.20 | 3.22 | 10.30 | 35,910 |
| SVEW-08 | 245 - 260 | 7/17/08 | -6.65 | 0.05 | 2.22 | 9.90 | 38,250 |
| SVEW-08 | 245 - 260 | 9/30/08 | -4.40 | 0.11 | 3.32 | 10.10 | 31,950 |
| SVEW-08 | 245 - 260 | 10/24/08 | -10.00 | 0.11 | 3.56 | 10.48 | 23,760 |
| SVEW-08 | 245 - 260 | 11/25/08 | -12.50 | 0.07 | 3.72 | -- | 22,680 |
| SVEW-08 | 245 - 260 | 12/9/08 | -5.00 | 0.16 | 7.06 | 12.13 | 17,658 |
| SVEW-08 | 245 - 260 | 1/29/09 | -2.05 | 0.00 | 4.72 | 10.33 | 16,542 |
| SVEW-08 | 245 - 260 | 2/17/09 | 0.06 | 0.00 | 1.06 | 19.50 | 5,300 |
| SVEW-08 | 245 - 260 | 3/24/09 | -0.33 | 0.01 | 3.70 | 12.25 | 13,320 |
| SVEW-08 | 245 - 260 | 4/28/09 | -- | 0.01 | 3.98 | 10.88 | 15,786 |
| SVEW-08 | 245 - 260 | 5/11/09 | -13 | 0.01 | 2.60 | 13.19 | 10,962 |
| SVEW-08 | 245 - 260 | 6/23/09 | -7.9 | 0.00 | 2.32 | 13.80 | 12,420 |
| SVEW-08 | 245 - 260 | 7/16/09 | -6.40 | 0.00 | 1.46 | 16.23 | 6,620 |
| SVEW-08 | 245 - 260 | 8/19/09 | -3.3 | 0.00 | 2.42 | 12.88 | 11,196 |
| SVEW-08 | 245 - 260 | 9/15/09 | -15.0 | 0.00 | 1.94 | 14.00 | 8,340 |
| SVEW-08 | 245 - 260 | 10/30/09 | 0.02 | 0.00 | 2.88 | 11.84 | 9,610 |
| SVEW-08 | 245 - 260 | 11/11/09 | -1.7 | 0.00 | 2.46 | 13.89 | 5,900 |
| SVEW-08 | 245 - 260 | 12/9/09 | 0.25 | 0.00 | 4.10 | 9.12 | 6,400 |
| SVEW-08 | 245 - 260 | 1/29/10 | -1.1 | 0.00 | 5.30 | 10.12 | 2,000 |
| SVEW-08 | 245 - 260 | 2/18/10 | 1.7 | 0.00 | 4.10 | 15.47 | 1,339 |
| SVEW-08 | 245 - 260 | 3/15/10 | -- | 0.00 | 7.70 | 11.53 | 1,391 |
| SVEW-08 | 245 - 260 | 5/14/10 | -22.0 | 0.00 | 0.04 | 21.08 | 274 |
| SVEW-08 | 245 - 260 | 6/29/10 | -20.5 | 0.00 | 0.38 | 20.28 | 328 |
| SVEW-09 | 435 - 450 | 7/16/04 | -- | 0.02 | 0.76 | 15.20 | 20,610 |
| SVEW-09 | 435 - 450 | 7/23/04 | -1.5 | 0.03 | 1.08 | 13.52 | 21,330 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-09 | 435 - 450 | 7/30/04 | 0.26 | 0.03 | 0.94 | 14.56 | 21,330 |
| SVEW-09 | 435 - 450 | 8/10/04 | -1.8 | 0.04 | 1.38 | 11.68 | 26,190 |
| SVEW-09 | 435 - 450 | 8/19/04 | -0.04 | 0.03 | 1.00 | 14.24 | 19,980 |
| SVEW-09 | 435 - 450 | 9/2/04 | -0.55 | 0.04 | 0.96 | 13.88 | 22,140 |
| SVEW-09 | 435 - 450 | 9/8/04 | -2.0 | -- | -- | -- | -- |
| SVEW-09 | 435 - 450 | 9/21/04 | -0.26 | 0.03 | 1.46 | 10.82 | 22,860 |
| SVEW-09 | 435 - 450 | 9/23/04 | -5.0 | 0.03 | 0.54 | 12.88 | 33,480 |
| SVEW-09 | 435 - 450 | 9/28/04 | -6.8 | 0.03 | 0.40 | 13.08 | 33,390 |
| SVEW-09 | 435 - 450 | 11/17/04 | -17 | 0.03 | 0.50 | 11.76 | 40,050 |
| SVEW-09 | 435 - 450 | 3/22/05 | -20 | 0.00 | 1.54 | 5.14 | 46,890 |
| SVEW-09 | 435 - 450 | 7/6/05 | -2.0 | -- | -- | -- | -- |
| SVEW-09 | 435 - 450 | 8/11/05 | -3.0 | 0.04 | 1.28 | 9.74 | 33,030 |
| SVEW-09 | 435 - 450 | 9/20/05 | -3.5 | 0.04 | 3.40 | 11.68 | 32,490 |
| SVEW-09 | 435 - 450 | 10/13/05 | -12.5 | 0.06 | 1.79 | 9.60 | 40,950 |
| SVEW-09 | 435 - 450 | 11/21/05 | -8.2 | 0.02 | 2.00 | 10.00 | 24,500 |
| SVEW-09 | 435 - 450 | 12/7/05 | -12.8 | 0.03 | 2.66 | 13.80 | 25,020 |
| SVEW-09 | 435 - 450 | 1/20/06 | -15.5 | 0.03 | 3.54 | 9.56 | 42,840 |
| SVEW-09 | 435 - 450 | 2/23/06 | -15.5 | 0.02 | 4.62 | 6.28 | 29,610 |
| SVEW-09 | 435 - 450 | 3/31/06 | -7.6 | 0.11 | 2.88 | 8.06 | 36,450 |
| SVEW-09 | 435 - 450 | 4/11/06 | -9.6 | 0.13 | 2.24 | 10.92 | 34,560 |
| SVEW-09 | 435 - 450 | 5/31/06 | -8.6 | 5.08 | 13.12 | 10.14 | 67,140 |
| SVEW-09 | 435 - 450 | 6/29/06 | -3.9 | 0.13 | 2.60 | 8.88 | 39,060 |
| SVEW-09 | 435 - 450 | 7/12/06 | -3.1 | 0.13 | 2.58 | 8.78 | 37,800 |
| SVEW-09 | 435 - 450 | 8/9/06 | -4.2 | 0.14 | 2.70 | 8.90 | 38,340 |
| SVEW-09 | 435 - 450 | 8/21/06 | -2.0 | 0.06 | 4.98 | 12.10 | 10,872 |
| SVEW-09 | 435 - 450 | 9/21/06 | -5.50 | 0.13 | 2.28 | 9.96 | 41,220 |
| SVEW-09 | 435 - 450 | 10/27/06 | -12 | 0.13 | 2.68 | 10.18 | 48,870 |
| SVEW-09 | 435 - 450 | 11/16/06 | -17.2 | 0.14 | 2.02 | 12.08 | 48,150 |
| SVEW-09 | 435 - 450 | 12/11/06 | 0.63 | 0.05 | 2.66 | 10.96 | 13,905 |
| SVEW-09 | 435 - 450 | 1/4/07 | 1.6 | 0.01 | 2.32 | 13.50 | 6,320 |
| SVEW-09 | 435 - 450 | 2/28/07 | 0.83 | 0.14 | 3.72 | 7.82 | 31,050 |
| SVEW-09 | 435 - 450 | 3/16/07 | -3.4 | 0.11 | 3.34 | 8.78 | 26,100 |
| SVEW-09 | 435 - 450 | 4/30/07 | -1.3 | 0.04 | 1.22 | 16.92 | 11,070 |
| SVEW-09 | 435 - 450 | 5/18/07 | -2 | 0.12 | 3.00 | 8.68 | 31,680 |
| SVEW-09 | 435 - 450 | 6/29/07 | -1.90 | 0.00 | 0.04 | 20.62 | 39 |
| SVEW-09 | 435 - 450 | 8/22/07 | -1.40 | 0.13 | 3.08 | 8.48 | 32,850 |
| SVEW-09 | 435 - 450 | 9/28/07 | -0.38 | 0.12 | 3.00 | 9.38 | 29,160 |
| SVEW-09 | 435 - 450 | 10/15/07 | -0.36 | 0.13 | 3.04 | 8.24 | 33,120 |
| SVEW-09 | 435 - 450 | 11/28/07 | -2.6 | 0.13 | 3.50 | 8.08 | 31,050 |
| SVEW-09 | 435 - 450 | 1/24/08 | -3.1 | 0.23 | 8.26 | 3.78 | 29,790 |
| SVEW-09 | 435 - 450 | 2/29/08 | -8.30 | 0.15 | 2.90 | 7.52 | 31,950 |
| SVEW-09 | 435 - 450 | 3/6/08 | 1.20 | 0.04 | 2.42 | 9.58 | 29,880 |
| SVEW-09 | 435 - 450 | 4/17/08 | -- | 0.05 | 2.30 | 8.66 | 34,020 |
| SVEW-09 | 435 - 450 | 5/14/08 | 1.3 | 0.11 | 2.88 | 9.42 | 34,650 |
| SVEW-09 | 435 - 450 | 6/25/08 | -5.2 | 0.21 | 3.10 | 9.86 | 39,690 |
| SVEW-09 | 435 - 450 | 7/17/08 | -4.2 | 0.05 | 2.08 | 9.76 | 29,610 |
| SVEW-09 | 435 - 450 | 9/30/08 | 0.02 | 0.11 | 3.08 | 11.44 | 30,330 |
| SVEW-09 | 435 - 450 | 10/24/08 | -10 | 0.12 | 3.18 | 9.78 | 25,110 |
| SVEW-09 | 435 - 450 | 11/25/08 | -13 | 0.04 | 2.62 | 20.88 | 33,930 |
| SVEW-09 | 435 - 450 | 12/9/08 | -4.9 | 0.14 | 6.50 | 12.62 | 23,940 |
| SVEW-09 | 435 - 450 | 1/29/09 | -1.9 | 0.00 | 4.54 | 10.23 | 17,883 |
| SVEW-09 | 435 - 450 | 2/17/09 | -2.9 | 0.00 | 0.76 | 21.10 | 2,950 |
| SVEW-09 | 435 - 450 | 3/24/09 | -0.62 | 0.01 | 4.08 | 11.25 | 11,610 |
| SVEW-09 | 435 - 450 | 4/28/09 | -- | 0.01 | 4.28 | 9.83 | 18,360 |
| SVEW-09 | 435 - 450 | 5/11/09 | -13 | 0.01 | 2.74 | 12.37 | 11,205 |
| SVEW-09 | 435 - 450 | 6/23/09 | -4.7 | 0.00 | 1.96 | 14.34 | 9,590 |
| SVEW-09 | 435 - 450 | 7/16/09 | -7.00 | 0.00 | 1.90 | 14.57 | 700 |
| SVEW-09 | 435 - 450 | 8/19/09 | -2.0 | 0.00 | 2.36 | 12.73 | 12,528 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-09 | 435 - 450 | 9/15/09 | -9.0 | 0.00 | 1.76 | 14.52 | 8,200 |
| SVEW-09 | 435 - 450 | 10/30/09 | -1.60 | 0.00 | 1.08 | 18.29 | 3,830 |
| SVEW-09 | 435 - 450 | 11/11/09 | -1.6 | 0.00 | 2.66 | 12.72 | 6,850 |
| SVEW-09 | 435 - 450 | 12/9/09 | 0.20 | 0.00 | 4.04 | 9.25 | 6,380 |
| SVEW-09 | 435 - 450 | 1/29/10 | -1.1 | 0.00 | 5.16 | 9.52 | 2,636 |
| SVEW-09 | 435 - 450 | 2/18/10 | 1.7 | 0.00 | 3.54 | 15.96 | 1,234 |
| SVEW-09 | 435 - 450 | 3/15/10 | -- | 0.00 | 4.18 | 16.44 | 1,245 |
| SVEW-09 | 435 - 450 | 5/14/10 | -22.0 | 0.00 | 0.92 | 17.49 | 3,450 |
| SVEW-09 | 435 - 450 | 6/29/10 | -20 | 1/0/00 | 1.18 | 16.29 | 4,050 |
| SVEW-10 | 400 - 410 | 2/27/07 | 1.35 | 0.02 | 0.46 | 18.90 | 9,430 |
| SVEW-10 | 400 - 410 | 8/24/07 | 0.23 | 0.02 | 0.38 | 17.98 | 8,080 |
| SVEW-10 | 400 - 410 | 11/27/07 | -1.9 | 0.00 | 0.02 | 20.76 | 7,630 |
| SVEW-10 | 400 - 410 | 3/6/08 | -- | 0.01 | 0.34 | 18.68 | 6,050 |
| SVEW-10 | 400 - 410 | 5/12/08 | -- | 0.01 | 0.30 | 18.84 | 5,410 |
| SVEW-10 | 400 - 410 | 9/29/08 | -1.0 | 0.00 | 0.20 | 19.36 | 1,496 |
| SVEW-10 | 400 - 410 | 12/11/08 | 5.4 | 0.00 | 0.46 | 18.72 | 4,600 |
| SVEW-10 | 400 - 410 | 2/18/09 | -- | -- | -- | -- | -- |
| SVEW-10 | 400 - 410 | 5/13/09 | 0.32 | 0.00 | 0.06 | 19.95 | 895 |
| SVEW-10 | 400 - 410 | 8/14/09 | -0.06 | 0.00 | 0.04 | 20.34 | 186 |
| SVEW-10 | 400 - 410 | 11/10/09 | -2.2 | 0.00 | 0.02 | 21.35 | 43 |
| SVEW-10 | 400 - 410 | 2/16/10 | -0.73 | 0.00 | 0.04 | 20.82 | 338 |
| SVEW-10 | 400 - 410 | 5/12/10 | 0.64 | 0.00 | 0.10 | 20.69 | 751 |
| SVEW-11 | 400 - 410 | 2/27/07 | 1.95 | 0.12 | 1.14 | 12.98 | 32,760 |
| SVEW-11 | 400 - 410 | 8/23/07 | 0.15 | 0.13 | 1.22 | 12.82 | 32,400 |
| SVEW-11 | 400 - 410 | 11/27/07 | -1.2 | 0.11 | 1.18 | 12.36 | 24,660 |
| SVEW-11 | 400 - 410 | 3/6/08 | -- | -- | -- | -- | -- |
| SVEW-11 | 400 - 410 | 9/29/08 | -1.3 | 0.13 | 1.28 | 12.12 | 27,090 |
| SVEW-11 | 400 - 410 | 12/11/08 | 4.4 | 0.00 | 1.76 | 12.57 | 26,550 |
| SVEW-11 | 400 - 410 | 2/18/09 | -1.20 | 0.00 | 0.82 | 18.05 | 14,022 |
| SVEW-11 | 400 - 410 | 5/13/09 | -0.40 | 0.00 | 1.26 | 13.84 | 22,500 |
| SVEW-11 | 400 - 410 | 8/18/09 | 1.40 | 0.01 | 1.18 | 15.00 | 12,654 |
| SVEW-11 | 400 - 410 | 11/10/09 | -3.0 | 0.00 | 0.38 | 18.60 | 3,450 |
| SVEW-11 | 400 - 410 | 2/16/10 | -1.20 | 0.00 | 0.88 | 15.50 | 7,080 |
| SVEW-11 | 400 - 410 | 5/12/10 | 0.26 | 0.00 | 0.52 | 18.37 | 4,350 |
| SVEW-12 | 400 - 410 | 2/27/07 | 1.47 | 0.01 | 0.26 | 19.46 | 6,380 |
| SVEW-12 | 400 - 410 | 8/24/07 | 0.25 | 0.01 | 0.24 | 18.72 | 5,170 |
| SVEW-12 | 400 - 410 | 11/28/07 | -1.1 | 0.01 | 0.26 | 19.58 | 4,630 |
| SVEW-12 | 400 - 410 | 3/6/08 | -- | 0.01 | 0.24 | 19.48 | 4,260 |
| SVEW-12 | 400 - 410 | 5/12/08 | -- | 0.01 | 0.38 | 18.10 | 7,130 |
| SVEW-12 | 400 - 410 | 9/29/08 | -0.99 | 0.01 | 0.24 | 19.60 | 3,260 |
| SVEW-12 | 400 - 410 | 12/11/08 | 5.3 | 0.00 | 0.24 | 19.38 | 2,370 |
| SVEW-12 | 400 - 410 | 2/18/09 | -1.1 | 0.00 | 0.24 | 19.72 | 2,270 |
| SVEW-12 | 400 - 410 | 5/13/09 | 0.47 | 0.00 | 0.2 | 19.84 | 1,437 |
| SVEW-12 | 400 - 410 | 8/14/09 | -0.12 | 0.00 | 0.16 | 19.78 | 886 |
| SVEW-12 | 400 - 410 | 11/9/09 | -1.2 | 0.00 | 0.00 | 21.11 | 58 |
| SVEW-12 | 400 - 410 | 2/16/10 | -0.88 | 0.00 | 0.16 | 19.91 | 914 |
| SVEW-12 | 400 - 410 | 5/12/10 | 0.53 | 0.00 | 0.14 | 20.08 | 360 |
| SVEW-13 | 400 - 410 | 2/27/07 | 1.15 | 0.14 | 1.42 | 12.34 | 38,250 |
| SVEW-13 | 400 - 410 | 8/27/07 | 0.07 | 0.00 | 0.02 | 20.80 | 63 |
| SVEW-13 | 400 - 410 | 11/27/07 | -1.2 | 0.12 | 1.36 | 12.82 | 16,641 |
| SVEW-13 | 400 - 410 | 3/6/08 | -- | 0.05 | 0.80 | 12.66 | 27,810 |
| SVEW-13 | 400 - 410 | 5/12/08 | -- | 0.22 | 1.66 | 17.08 | 26,280 |
| SVEW-13 | 400 - 410 | 7/18/08 | -0.04 | 0.07 | 0.94 | 12.76 | 28,440 |
| SVEW-13 | 400 - 410 | 9/29/08 | -1.10 | 0.15 | 1.44 | 12.68 | 23,310 |
| SVEW-13 | 400 - 410 | 12/11/08 | 4.10 | 0.01 | 2.00 | 13.39 | 31,230 |
| SVEW-13 | 400 - 410 | 2/19/09 | -- | -- | -- | -- | -- |
| SVEW-13 | 400 - 410 | 5/13/09 | -0.28 | 0.03 | 1.8 | 14.92 | 17,280 |
| SVEW-13 | 400 - 410 | 8/14/09 | -0.22 | 0.01 | 1.88 | 14.38 | 25,020 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVEW-13 | 400 - 410 | 11/10/09 | -3.0 | 0.00 | 0.24 | 21.83 | 2,790 |
| SVEW-13 | 400 - 410 | 2/16/10 | -1.50 | 0.00 | 1.50 | 15.21 | 21,600 |
| SVEW-13 | 400 - 410 | 5/12/10 | 0.23 | 0.01 | 1.14 | 17.63 | 17,694 |
| **Groundwater Monitoring Wells** | | | | | | | |
| KAFB-1061 | | 4/25/05 | -- | 0.01 | 0.28 | 20.24 | 2,210 |
| KAFB-1061 | | 2/24/06 | -1.6 | 0.00 | 0.16 | 20.78 | 411 |
| KAFB-1061 | | 4/4/06 | -- | 0.00 | 0.04 | 21.08 | 341 |
| KAFB-1061 | | 4/11/06 | 1.3 | 0.00 | 0.02 | 21.48 | 115 |
| KAFB-1061 | | 8/10/06 | -2.2 | 0.01 | 1.94 | 15.88 | 3,210 |
| KAFB-1061 | | 8/22/06 | -1.9 | 0.01 | 1.22 | 18.52 | 2,200 |
| KAFB-1061 | | 9/22/06 | 0.33 | 0.01 | 7.14 | 2.30 | 4,960 |
| KAFB-1061 | | 10/27/06 | -0.23 | 0.01 | 0.98 | 19.68 | 2,010 |
| KAFB-1061 | | 2/13/07 | 1.4 | 0.02 | 8.04 | 2.26 | 760 |
| KAFB-1061 | | 8/28/07 | 0.26 | 0.01 | 0.38 | 20.52 | 222 |
| KAFB-1061 | | 11/27/07 | -1.1 | 0.01 | 0.52 | 20.42 | 660 |
| KAFB-1061 | | 3/6/08 | -- | 0.00 | 0.14 | 21.12 | 220 |
| KAFB-1061 | | 5/14/08 | -- | 0.02 | 4.41 | 12.06 | 7,710 |
| KAFB-1061 | | 10/1/08 | -1.10 | 0.01 | 3.52 | 14.26 | 4,000 |
| KAFB-1061 | | 12/10/08 | 4.00 | 0.00 | 0.02 | 22.13 | 7 |
| KAFB-1061 | | 2/17/09 | 1.40 | 0.00 | 1.00 | 17.40 | 449 |
| KAFB-1061 | | 5/15/09 | -1.3 | 0.00 | 0.62 | 20.29 | 4,138 |
| KAFB-1061 | | 8/13/09 | -0.28 | 0.00 | 0.10 | 20.93 | 275 |
| KAFB-1061 | | 11/12/09 | 0.04 | 0.00 | 0.14 | 21.05 | 279 |
| KAFB-1061 | | 2/15/10 | -0.04 | 0.00 | 0.18 | 20.69 | 460 |
| KAFB-1061 | | 5/12/10 | 0.01 | 0.00 | 0.34 | 19.64 | 937 |
| KAFB-1062 | | 4/4/06 | -- | 0.00 | 0.26 | 18.54 | 11 |
| KAFB-1062 | | 4/11/06 | 0.9 | 0.00 | 0.12 | 19.54 | 9 |
| KAFB-1062 | | 8/10/06 | -2.2 | 0.00 | 0.40 | 16.34 | 25 |
| KAFB-1062 | | 8/22/06 | -1.7 | 0.00 | 0.38 | 17.32 | 15 |
| KAFB-1062 | | 9/21/06 | 0.61 | 0.00 | 0.44 | 18.58 | 36 |
| KAFB-1062 | | 10/23/06 | -0.35 | 0.00 | 0.62 | 15.86 | 3 |
| KAFB-1062 | | 2/13/07 | 1.2 | 0.00 | 1.98 | 8.64 | 9 |
| KAFB-1062 | | 8/28/07 | 0.21 | 0.00 | 0.10 | 21.46 | 6 |
| KAFB-1062 | | 11/26/07 | -1.3 | 0.01 | 2.16 | 9.50 | 5 |
| KAFB-1062 | | 3/6/08 | -- | 0.00 | 1.38 | 13.80 | 22 |
| KAFB-1062 | | 5/15/08 | -- | 0.01 | 0.04 | 21.70 | 1 |
| KAFB-1062 | | 7/14/08 | -0.83 | 0.49 | 11.08 | 1.88 | 462 |
| KAFB-1062 | | 10/1/08 | -1.10 | 0.00 | 0.56 | 15.90 | 2 |
| KAFB-1062 | | 12/9/08 | 4.60 | 0.00 | 1.80 | 9.38 | 33 |
| KAFB-1062 | | 5/15/09 | -1.3 | 0.00 | -- | 18.2 | 15 |
| KAFB-1062 | | 8/13/09 | 0.04 | 0.00 | 0.02 | 20.83 | 15 |
| KAFB-1062 | | 11/9/09 | -1.1 | 0.00 | 0.00 | 20.88 | 85 |
| KAFB-1062 | | 2/18/10 | 1.1 | 0.00 | 0.10 | 20.91 | 896 |
| KAFB-1062 | | 5/11/10 | 1.2 | 0.00 | 0.04 | 20.87 | 438 |
| KAFB-1063 | | 4/4/06 | -- | 0.00 | 0.06 | 20.88 | 0 |
| KAFB-1063 | | 4/11/06 | 0.96 | 0.00 | 0.04 | 21.02 | 3 |
| KAFB-1063 | | 8/10/06 | -2 | 0.00 | 0.06 | 21.02 | 1 |
| KAFB-1063 | | 8/22/06 | -1.7 | 0.00 | 0.04 | 21.16 | 3 |
| KAFB-1063 | | 9/22/06 | 0.68 | 0.00 | 0.08 | 20.10 | 6 |
| KAFB-1063 | | 10/23/06 | -0.42 | 0.00 | 0.06 | 21.16 | 0 |
| KAFB-1063 | | 2/26/07 | 1.1 | 0.00 | 0.12 | 20.74 | 19 |
| KAFB-1063 | | 8/28/07 | 0.27 | 0.01 | 0.08 | 21.76 | 0 |
| KAFB-1063 | | 11/26/07 | -1.2 | 0.00 | 0.10 | 20.28 | 0 |
| KAFB-1063 | | 3/6/08 | -- | 0.00 | 0.08 | 20.98 | 8 |
| KAFB-1063 | | 5/15/08 | -- | 0.00 | 0.02 | 21.06 | 19 |
| KAFB-1063 | | 10/1/08 | -1.00 | 0.00 | 0.04 | 21.70 | 3 |
| KAFB-1063 | | 12/9/08 | 4.20 | 0.00 | 0.00 | 21.11 | 5 |
| KAFB-1063 | | 2/17/09 | 1.50 | 0.00 | 0.08 | 20.96 | 239 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| KAFB-1063 | | 5/15/09 | -1.0 | 0.00 | 0.04 | 20.98 | 25 |
| KAFB-1063 | | 8/12/09 | -0.68 | 0.00 | 0.06 | 21.60 | 248 |
| KAFB-1063 | | 11/12/09 | 0.06 | 0.00 | 0.02 | 21.39 | 136 |
| KAFB-1063 | | 2/16/10 | -0.12 | 0.00 | 0.02 | 20.91 | 682 |
| KAFB-1063 | | 5/11/10 | 0.32 | 0.00 | 0.00 | 20.75 | 381 |
| KAFB-1064 | | 4/4/06 | -- | 0.00 | 0.04 | 21.24 | 0 |
| KAFB-1064 | | 4/11/06 | -- | 0.00 | 0.06 | 20.88 | 5 |
| KAFB-1064 | | 8/10/06 | -2 | 0.00 | 0.36 | 17.02 | 112 |
| KAFB-1064 | | 8/22/06 | -1.6 | 0.00 | 0.18 | 19.44 | 41 |
| KAFB-1064 | | 9/22/06 | 0.69 | 0.01 | 1.52 | 9.26 | 271 |
| KAFB-1064 | | 10/23/06 | -0.23 | 0.00 | 1.24 | 11.48 | 171 |
| KAFB-1064 | | 2/26/07 | 2 | 0.00 | 2.38 | 6.68 | 304 |
| KAFB-1064 | | 8/28/07 | 0.10 | 0.00 | 0.08 | 20.86 | 2 |
| KAFB-1064 | | 11/26/07 | -- | 0.06 | 1.02 | 14.52 | 82 |
| KAFB-1064 | | 3/6/08 | -- | 0.00 | 0.08 | 20.90 | 39 |
| KAFB-1064 | | 5/21/08 | -- | 0.01 | 1.74 | 10.74 | 111 |
| KAFB-1064 | | 7/14/08 | -0.65 | 0.00 | 0.16 | 20.28 | 14 |
| KAFB-1064 | | 10/1/08 | -1.10 | 0.00 | 0.22 | 19.18 | 12 |
| KAFB-1064 | | 12/17/08 | 3.80 | 0.00 | 1.44 | 10.62 | 5 |
| KAFB-1064 | | 2/17/09 | -3.20 | 0.00 | 0.20 | 20.44 | 15 |
| KAFB-1064 | | 5/15/09 | -1.2 | 0.00 | 0.64 | 16.08 | 32 |
| KAFB-1064 | | 8/13/09 | -0.28 | 0.00 | 0.02 | 21.05 | 40 |
| KAFB-1064 | | 11/9/09 | -1.1 | 0.00 | 0.06 | 20.86 | 98 |
| KAFB-1064 | | 2/15/10 | -0.58 | 0.00 | 0.00 | 20.99 | 216 |
| KAFB-1064 | | 5/13/10 | -0.02 | 0.00 | 0.02 | 20.91 | 257 |
| KAFB-1065 | | 2/26/07 | -0.8 | 0.14 | 2.34 | 10.60 | 51,480 |
| KAFB-1065 | | 8/29/07 | -- | 0.01 | 0.50 | 19.84 | 3,750 |
| KAFB-1065 | | 11/27/07 | -1.3 | 0.11 | 3.84 | 10.76 | 17,595 |
| KAFB-1065 | | 3/6/08 | -- | 0.00 | 0.12 | 21.56 | 520 |
| KAFB-1065 | | 10/1/08 | -1.10 | 0.15 | 8.06 | 1.28 | 33,840 |
| KAFB-1065 | 479-506 | 4/6/10 | <-30 | 0.00 | 9.54 | 3.57 | 34,290 |
| KAFB-1066 | | 11/26/07 | -1.16 | 0.14 | 2.34 | 11.74 | 960 |
| KAFB-1066 | | 5/14/08 | -- | 0.00 | 0.08 | 21.98 | 32 |
| KAFB-1066 | | 10/1/08 | -1.00 | 0.12 | 2.40 | 14.92 | 17,199 |
| KAFB-1066 | | 12/10/08 | 3.50 | 0.00 | 0.34 | 20.48 | 6,790 |
| KAFB-1066 | | 2/16/09 | 0.28 | 0.01 | 5.80 | 9.90 | 28,260 |
| KAFB-1066 | | 2/18/10 | 2.0 | 0.00 | 1.08 | 18.23 | 19,080 |
| KAFB-1066 | 483.5-508.5 | 4/6/10 | <-30 | 0.00 | 4.34 | 10.90 | 44,280 |
| KAFB-1066 | | 5/12/10 | 0.04 | 0.01 | 2.38 | 16.06 | 22,860 |
| KAFB-1067 | | 3/6/08 | -- | 0.04 | 5.26 | 2.96 | 25,380 |
| KAFB-1067 | | 5/14/08 | -- | 0.01 | 0.38 | 19.78 | 366 |
| KAFB-1067 | | 9/30/08 | -1.00 | 0.00 | 0.08 | 21.46 | 1 |
| KAFB-1067 | | 12/10/08 | 3.00 | 0.00 | 0.00 | 21.09 | 0 |
| KAFB-1067 | | 2/17/09 | 1.80 | 0.00 | 0.58 | 17.71 | 1,010 |
| KAFB-1067 | | 5/15/09 | -1.1 | 0.00 | 0.46 | 7.96 | 797 |
| KAFB-1067 | | 8/13/09 | -0.46 | 0.00 | 0.24 | 20.26 | 46 |
| KAFB-1067 | | 11/12/09 | 0.55 | 0.00 | 2.44 | 11.95 | 5,410 |
| KAFB-1067 | | 2/16/10 | -0.77 | 0.00 | 1.58 | 15.55 | 1,871 |
| KAFB-1067 | | 5/11/10 | 0.36 | 3.60 | 12.69 | 8.56 | 6,508 |
| KAFB-1068 | | 3/6/08 | -- | 0.00 | 0.00 | 21.06 | 390 |
| KAFB-1068 | | 5/14/08 | -- | 0.09 | 0.90 | 13.38 | 26,550 |
| KAFB-1068 | | 10/1/08 | -1.10 | 0.16 | 1.26 | 13.62 | 44,730 |
| KAFB-1068 | | 12/17/08 | 3.80 | 0.00 | 2.16 | 10.40 | 40,590 |
| KAFB-1068 | | 2/16/09 | 0.44 | 0.00 | 2.78 | 9.66 | 55,980 |
| KAFB-1068 | 486-511 | 4/6/10 | <-30 | 0.00 | 2.38 | 13.22 | 32,490 |
| KAFB-1069 | | 3/6/08 | -- | 0.02 | 3.14 | 6.82 | 56,700 |
| KAFB-1069 | | 5/14/08 | -- | 0.02 | 0.92 | 18.78 | 19,350 |
| KAFB-1069 | | 10/1/08 | -1.10 | 0.02 | 0.38 | 19.42 | 8,400 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| KAFB-1069 | | 12/17/08 | 3.50 | 0.00 | 6.30 | 4.03 | 59,490 |
| KAFB-1069 | | 2/16/09 | 0.84 | 0.02 | 1.06 | 19.16 | 36,270 |
| KAFB-1069 | | 5/13/09 | 0.44 | 0.03 | 2.42 | 18.02 | 42,660 |
| KAFB-1069 | | 8/12/09 | -1.60 | 0.00 | 2.76 | 17.73 | 31,860 |
| KAFB-1069 | | 11/12/09 | 0.18 | 0.02 | 3.30 | 17.27 | 42,570 |
| KAFB-1069 | | 2/15/10 | -1.10 | 0.00 | 2.82 | 17.20 | 43,650 |
| KAFB-1069 | 480-505 | 4/6/10 | <-30 | 0.00 | 8.76 | 6.31 | 49,770 |
| KAFB-1069 | | 5/12/10 | -0.06 | 0.02 | 2.04 | 18.76 | 26,370 |
| KAFB-10610 | | 3/6/08 | -- | 0.04 | 0.26 | 20.28 | 20,790 |
| KAFB-10610 | | 5/21/08 | -- | 0.14 | 0.84 | 20.18 | 23,310 |
| KAFB-10610 | | 7/14/08 | -0.13 | 0.06 | 0.46 | 18.82 | 28,350 |
| KAFB-10610 | | 10/1/08 | -1.10 | 0.08 | 0.60 | 19.90 | 18,990 |
| KAFB-10610 | | 12/11/08 | 4.40 | 0.00 | 0.08 | 21.70 | 83 |
| KAFB-10610 | | 2/18/09 | -0.39 | 0.00 | 1.39 | 19.84 | 27,090 |
| KAFB-10610 | | 5/14/09 | -1.9 | 0.00 | 0.84 | 19.73 | 20,970 |
| KAFB-10610 | | 8/12/09 | -0.51 | 0.01 | 1.06 | 19.33 | 19,350 |
| KAFB-10610 | | 11/12/09 | -1.8 | 0.02 | 1.24 | 19.24 | 26,370 |
| KAFB-10610 | | 2/15/10 | -1.20 | 0.00 | 0.79 | 19.83 | 20,070 |
| KAFB-10610 | 483-508 | 4/6/10 | <-28 | 0.00 | 0.76 | 19.51 | 22,860 |
| KAFB-10610 | | 5/14/10 | -0.42 | 0.00 | 0.32 | 20.22 | 11,160 |
| KAFB-10611 | | 12/9/08 | 4.60 | 0.00 | 0.26 | 19.12 | 1,647 |
| KAFB-10611 | | 2/16/09 | 0.36 | 0.00 | 0.08 | 20.53 | 747 |
| KAFB-10611 | | 5/13/09 | 0.6 | 0.00 | 0.42 | 16.96 | 4,750 |
| KAFB-10611 | | 8/13/09 | -0.10 | 0.00 | 0.00 | 21.66 | 27 |
| KAFB-10611 | | 11/12/09 | 0.04 | 0.00 | 0.02 | 20.98 | 200 |
| KAFB-10611 | | 2/16/10 | -0.04 | 0.00 | 0.16 | 20.56 | 857 |
| KAFB-10611 | | 5/11/10 | 0.10 | 0.00 | 0.04 | 20.63 | 880 |
| KAFB-10612 | | 12/9/08 | 4.00 | 0.00 | 0.54 | 17.87 | 9,900 |
| KAFB-10612 | | 2/16/09 | 0.14 | 0.02 | 2.12 | 10.48 | 29,970 |
| KAFB-10612 | | 5/13/09 | -0.10 | 0.00 | 2.3 | 5.15 | 11,844 |
| KAFB-10612 | | 8/13/09 | -0.53 | 0.00 | 1.60 | 7.80 | 259 |
| KAFB-10612 | | 11/9/09 | -1.5 | 0.00 | 1.20 | 10.28 | 103 |
| KAFB-10612 | | 2/16/10 | -0.86 | 0.00 | 0.74 | 18.05 | 525 |
| KAFB-10612 | | 5/11/10 | 1.00 | 0.00 | 1.80 | 14.34 | 436 |
| KAFB-10613 | | 12/11/08 | 3.90 | 0.00 | 0.16 | 20.98 | 23 |
| KAFB-10613 | | 2/18/09 | -0.48 | 0.00 | 0.34 | 20.54 | 26 |
| KAFB-10613 | | 5/13/09 | -1.9 | 0.03 | 0.04 | 20.64 | 243 |
| KAFB-10613 | | 8/12/09 | -0.40 | 0.01 | 0.18 | 20.85 | 17 |
| KAFB-10613 | | 11/12/09 | 1.8 | 0.01 | 0.08 | 20.83 | 427 |
| KAFB-10613 | | 2/15/10 | -0.69 | 0.00 | 0.02 | 22.21 | 168 |
| KAFB-10613 | | 5/13/10 | -0.76 | 0.00 | 0.04 | 21.23 | 406 |
| KAFB-10614 | | 12/9/08 | 4.60 | 0.00 | 2.28 | 14.49 | 11,646 |
| KAFB-10614 | | 2/16/09 | 0.15 | 0.00 | 3.72 | 12.85 | 26,640 |
| KAFB-10614 | | 5/13/09 | 0.04 | 0.00 | 5.62 | 9.25 | 20,610 |
| KAFB-10614 | | 8/12/09 | -1.2 | 0.00 | 3.88 | 13.52 | 19,080 |
| KAFB-10614 | | 11/12/09 | 0.52 | 0.00 | 4.78 | 13.34 | 19,080 |
| KAFB-10614 | | 2/16/10 | -1.50 | 0.00 | 3.50 | 13.14 | 7,210 |
| KAFB-10614 | 511-486 | 4/6/10 | <-30 | 0.00 | 3.38 | 12.81 | 60,390 |
| KAFB-10614 | | 5/11/10 | 2.10 | 0.00 | 0.16 | 19.59 | 1,151 |
| KAFB-10615 | | 12/9/08 | 4.20 | 0.00 | 0.10 | 21.00 | 3 |
| KAFB-10615 | | 2/16/09 | 0.70 | 0.00 | 0.18 | 22.42 | 277 |
| KAFB-10615 | | 5/14/09 | -1.7 | 0.00 | 0.1 | 20.94 | 66 |
| KAFB-10615 | | 8/13/09 | -0.38 | 0.00 | 0.08 | 20.63 | 32 |
| KAFB-10615 | | 11/12/09 | 0.41 | 0.00 | 0.04 | 21.06 | 126 |
| KAFB-10615 | | 2/16/10 | -0.18 | 0.00 | 0.12 | 21.05 | 585 |
| KAFB-10615 | | 5/11/10 | 0.43 | 0.00 | 0.20 | 20.87 | 1,284 |
| KAFB-10616 | | 12/17/08 | 4.40 | 0.00 | 0.14 | 18.41 | 685 |
| KAFB-10616 | | 2/16/09 | 0.84 | 0.00 | 0.72 | 12.23 | 5,960 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| KAFB-10616 | | 5/13/09 | -- | 0.00 | 1.28 | 8.18 | 9,450 |
| KAFB-10616 | | 8/13/09 | -0.50 | 0.00 | 2.88 | 6.38 | 11,403 |
| KAFB-10616 | | 11/9/09 | -1.0 | 0.00 | 3.42 | 4.40 | 13,428 |
| KAFB-10616 | | 2/16/10 | -1.40 | 0.00 | 0.04 | 21.26 | 845 |
| KAFB-10616 | | 5/12/10 | 0.22 | 0.00 | 0.14 | 19.02 | 594 |
| KAFB-10617 | | 12/11/08 | 4.40 | 0.00 | 0.00 | 21.43 | 2 |
| KAFB-10617 | | 2/18/09 | -0.25 | 0.00 | 0.06 | 20.64 | 38 |
| KAFB-10617 | | 5/14/09 | -1.95 | 0.00 | 0.06 | 21.02 | 13 |
| KAFB-10617 | | 8/12/09 | -0.42 | 0.00 | 0.00 | 20.94 | 44 |
| KAFB-10617 | | 11/12/09 | 2.2 | 0.00 | 0.08 | 20.49 | 362 |
| KAFB-10617 | | 2/15/10 | -0.63 | 0.00 | 0.02 | 20.91 | 287 |
| KAFB-10617 | | 5/13/10 | -0.12 | 0.00 | 0.04 | 20.64 | 430 |
| KAFB-10618 | | 12/11/08 | 4.30 | 0.00 | 0.00 | 21.09 | 0 |
| KAFB-10618 | | 2/18/09 | -0.58 | 0.00 | 0.05 | 21.12 | 78 |
| KAFB-10618 | | 5/14/09 | -2.05 | 0.00 | 0.14 | 21.03 | 21 |
| KAFB-10618 | | 8/12/09 | -0.54 | 0.00 | 0.06 | 20.78 | 68 |
| KAFB-10618 | | 11/12/09 | 2.5 | 0.00 | 0.22 | 20.36 | 110 |
| KAFB-10618 | | 2/15/10 | -0.84 | 0.00 | 0.06 | 20.86 | 759 |
| KAFB-10618 | | 5/13/10 | -0.22 | 0.00 | 0.02 | 20.98 | 436 |
| KAFB-10619 | | 2/18/09 | -0.37 | 0.00 | 0.10 | 20.06 | 88 |
| KAFB-10619 | | 5/14/09 | -2.1 | 0.00 | 0.06 | 20.09 | 20 |
| KAFB-10619 | | 8/12/09 | -0.79 | 0.00 | 0.16 | 19.96 | 249 |
| KAFB-10619 | | 11/12/09 | 2.2 | 0.00 | 0.18 | 20.15 | 198 |
| KAFB-10619 | | 2/15/10 | -0.79 | 0.00 | 0.04 | 21.09 | 376 |
| KAFB-10619 | | 5/13/10 | -0.32 | 0.00 | 0.10 | 20.68 | 538 |
| KAFB-10620 | | 2/18/09 | -0.39 | 0.00 | 0.16 | 21.29 | 39 |
| KAFB-10620 | | 5/14/09 | -0.81 | 0.00 | 0.06 | 20.77 | 132 |
| KAFB-10620 | | 8/12/09 | -0.22 | 0.00 | 0.00 | 20.98 | 12 |
| KAFB-10620 | | 11/12/09 | 1.8 | 0.00 | 0.00 | 20.89 | 226 |
| KAFB-10620 | | 5/14/10 | -0.08 | 0.00 | 0.04 | 21.37 | 595 |
| KAFB-10624 | | 8/13/09 | -0.05 | 0.00 | 0.12 | 20.22 | 278 |
| KAFB-10624 | | 11/12/09 | 1.2 | 0.01 | 4.02 | 1.52 | 24,930 |
| KAFB-10624 | | 2/18/10 | 0.74 | 0.00 | 0.10 | 21.02 | 623 |
| KAFB-10624 | | 5/12/10 | 0.14 | 0.00 | 0.90 | 15.92 | 1,586 |
| KAFB-10625 | | 5/13/10 | -0.04 | 0.00 | 0.02 | 20.96 | 291 |
| KAFB-10626 | | 5/13/10 | -0.20 | 0.00 | 0.08 | 20.92 | 361 |
| KAFB-10627 | | 5/11/10 | 2.60 | 0.00 | 0.28 | 19.17 | 1,183 |
| KAFB-3411 | | 4/4/06 | -- | 0.00 | 0.04 | 21.16 | 1 |
| KAFB-3411 | | 4/11/06 | 0.72 | 0.00 | 0.02 | 21.82 | 1 |
| KAFB-3411 | | 8/10/06 | -2 | 0.00 | 0.04 | 20.96 | 6 |
| KAFB-3411 | | 8/22/06 | -1.5 | 0.00 | 0.02 | 21.14 | 2 |
| KAFB-3411 | | 9/22/06 | 0.39 | 0.01 | 4.06 | 8.54 | 925 |
| KAFB-3411 | | 10/23/06 | -0.42 | 0.00 | 0.02 | 21.04 | 7 |
| KAFB-3411 | | 2/26/07 | 1.1 | 0.01 | 5.80 | 6.24 | 3,190 |
| KAFB-3411 | | 8/28/07 | 0.19 | 0.01 | 0.06 | 21.74 | 0 |
| KAFB-3411 | | 11/26/07 | -1.6 | 0.01 | 0.58 | 20.94 | 190 |
| KAFB-3411 | | 3/6/08 | -- | 0.00 | 0.02 | 21.42 | 4 |
| KAFB-3411 | | 5/14/08 | -- | 0.00 | 0.01 | 21.38 | 5 |
| KAFB-3411 | | 10/1/08 | -0.94 | 0.00 | 0.04 | 21.32 | 0 |
| KAFB-3411 | | 12/17/08 | 3.60 | 0.00 | 2.06 | 12.00 | 1,612 |
| KAFB-3411 | | 2/17/09 | 1.10 | 0.00 | 0.78 | 17.12 | 581 |
| KAFB-3411 | | 5/15/09 | -1.1 | 0.00 | 0.86 | 13.4 | 1,798 |
| KAFB-3411 | | 8/13/09 | -0.22 | 0.00 | 0.00 | 21.58 | 30 |
| KAFB-3411 | | 11/9/09 | -0.84 | 0.00 | 0.02 | 21.86 | 64 |
| KAFB-3411 | | 2/16/10 | -0.32 | 0.00 | 0.08 | 21.99 | 915 |
| KAFB-3411 | | 5/12/10 | 0.02 | 0.00 | 0.04 | 21.22 | 175 |
| **Vapor Treatment Parameters** | | | | | | | |
| ST106 Vapor Treatment Influent | | 7/16/04 | -- | 0.01 | 3.58 | 8.00 | 48,240 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 Vapor Treatment Influent | | 7/23/04 | -13.0 | 0.00 | 3.50 | 7.28 | 49,140 |
| ST106 Vapor Treatment Influent | | 7/30/04 | -9.2 | 0.02 | 3.36 | 8.18 | 53,280 |
| ST106 Vapor Treatment Influent | | 8/10/04 | -14.0 | 0.01 | 3.42 | 7.98 | 47,340 |
| ST106 Vapor Treatment Influent | | 8/17/04 | na | 0.01 | 3.42 | 8.40 | 43,650 |
| ST106 Vapor Treatment Influent | | 8/19/04 | -10.0 | 0.01 | 3.68 | 7.08 | 52,650 |
| ST106 Vapor Treatment Influent | | 8/25/04 | -- | 0.02 | 3.72 | 7.58 | 51,750 |
| ST106 Vapor Treatment Influent | | 9/2/04 | ~ -10.5 | 0.02 | 3.80 | 8.12 | 53,640 |
| ST106 Vapor Treatment Influent | | 9/21/04 | -14.0 | 0.04 | 2.16 | 11.76 | 33,120 |
| ST106 Vapor Treatment Influent | | 9/23/04 | -6.0 | 0.04 | 1.98 | 11.98 | 41,130 |
| ST106 Vapor Treatment Influent | | 9/28/04 | -8.0 | 0.04 | 1.86 | 12.38 | 35,820 |
| ST106 Vapor Treatment Influent | | 11/16/04 | -- | 0.04 | 0.72 | 15.72 | 31,050 |
| ST106 Vapor Treatment Influent | | 11/17/04 | -- | 0.05 | 6.68 | 7.02 | 20,790 |
| ST106 Vapor Treatment Influent | | 11/23/04 | -- | 0.04 | 0.92 | 15.06 | 30,330 |
| ST106 Vapor Treatment Influent | | 1/13/05 | -- | 0.04 | 0.66 | 15.64 | 26,730 |
| ST106 Vapor Treatment Influent | | 3/22/05 | -30 | 0.04 | 0.56 | 15.90 | 20,700 |
| ST106 Vapor Treatment Influent | | 3/29/05 | -- | 0.02 | 0.46 | 17.60 | 15,714 |
| ST106 Vapor Treatment Influent | | 5/4/05 | -- | 0.04 | 2.60 | 15.36 | 28,080 |
| ST106 Vapor Treatment Influent | | 5/10/05 | -- | 0.05 | 3.52 | 11.02 | 17,136 |
| ST106 Vapor Treatment Influent | | 5/17/05 | -8 | 0.04 | 2.86 | 12.14 | 20,520 |
| ST106 Vapor Treatment Influent | | 6/9/05 | -- | 0.05 | 2.94 | 11.26 | 21,600 |
| ST106 Vapor Treatment Influent | | 6/22/05 | -- | 0.06 | 6.66 | 4.34 | 17,640 |
| ST106 Vapor Treatment Influent | | 8/11/05 | -3.3 | 0.05 | 3.42 | 8.36 | 40,590 |
| ST106 Vapor Treatment Influent | | 9/20/05 | -3.8 | 0.02 | 4.36 | 10.58 | 43,560 |
| ST106 Vapor Treatment Influent | | 10/11/05 | -- | 0.06 | 1.76 | 17.34 | 47,880 |
| ST106 Vapor Treatment Influent | | 10/13/05 | -14 | 0.08 | 3.42 | 10.38 | 39,330 |
| ST106 Vapor Treatment Influent | | 11/21/05 | -12.5 | 0.02 | 3.96 | 9.02 | 38,610 |
| ST106 Vapor Treatment Influent | | 12/7/05 | -17 | 0.02 | 4.42 | 8.54 | 43,920 |
| ST106 Vapor Treatment Influent | | 1/20/06 | -24.2 | 0.04 | 3.12 | 12.36 | 29,520 |
| ST106 Vapor Treatment Influent | | 2/23/06 | -23 | 0.02 | 3.60 | 10.88 | 37,350 |
| ST106 Vapor Treatment Influent | | 3/31/06 | -21 | 0.12 | 3.00 | 12.90 | 29,340 |
| ST106 Vapor Treatment Influent | | 4/4/06 | -- | 0.12 | 3.28 | 13.22 | 36,240 |
| ST106 Vapor Treatment Influent | | 4/11/06 | -24.0 | 0.13 | 3.50 | 13.46 | 31,590 |
| ST106 Vapor Treatment Influent | | 5/31/06 | -20.5 | 3.69 | 13.46 | 13.18 | 59,490 |
| ST106 Vapor Treatment Influent | | 6/29/06 | -7.4 | 0.15 | 3.28 | 12.76 | 34,920 |
| ST106 Vapor Treatment Influent | | 7/12/06 | -6.0 | 0.17 | 3.46 | 12.18 | 37,440 |
| ST106 Vapor Treatment Influent | | 8/9/06 | -4.8 | 0.15 | 3.52 | 12.38 | 38,700 |
| ST106 Vapor Treatment Influent | | 9/21/06 | -8.6 | 0.16 | 3.50 | 12.00 | 36,000 |
| ST106 Vapor Treatment Influent | | 10/27/06 | -18 | 0.11 | 1.94 | 15.72 | 29,070 |
| ST106 Vapor Treatment Influent | | 11/16/06 | >-30 | 0.11 | 1.60 | 15.56 | 36,540 |
| ST106 Vapor Treatment Influent | | 12/11/06 | >-30 | 0.07 | 0.78 | 18.38 | 21,960 |
| ST106 Vapor Treatment Influent | | 12/29/06 | -- | 0.12 | 4.12 | 13.28 | 29,880 |
| ST106 Vapor Treatment Influent | | 1/4/07 | -18.5 | 0.15 | 4.32 | 12.98 | 50,580 |
| ST106 Vapor Treatment Influent | | 2/28/07 | -25 | 0.16 | 5.08 | 10.90 | 45,360 |
| ST106 Vapor Treatment Influent | | 3/16/07 | -26 | 0.12 | 3.76 | 13.28 | 36,810 |
| ST106 Vapor Treatment Influent | | 3/30/07 | -- | 0.06 | 3.02 | 15.12 | 28,350 |
| ST106 Vapor Treatment Influent | | 4/30/07 | -16 | 0.16 | 4.94 | 11.28 | 48,780 |
| ST106 Vapor Treatment Influent | | 5/18/07 | -23 | 0.16 | 5.18 | 10.86 | 32,652 |
| ST106 Vapor Treatment Influent | | 6/29/07 | 3.00 | 0.08 | 2.42 | 15.72 | 21,690 |
| ST106 Vapor Treatment Influent | | 8/22/07 | -19.00 | 0.14 | 3.50 | 12.76 | 31,410 |
| ST106 Vapor Treatment Influent | | 9/28/07 | -12 | 0.14 | 3.70 | 12.86 | 29,250 |
| ST106 Vapor Treatment Influent | | 10/15/07 | -9.3 | 0.14 | 3.60 | 12.80 | 31,320 |
| ST106 Vapor Treatment Influent | | 1/24/08 | -19.8 | 0.14 | 4.00 | 12.96 | 36,810 |
| ST106 Vapor Treatment Influent | | 2/29/08 | < -30.0 | 0.08 | 1.24 | 16.18 | 22,950 |
| ST106 Vapor Treatment Influent | | 3/6/08 | -13.5 | -- | -- | -- | -- |
| ST106 Vapor Treatment Influent | | 3/26/08 | -- | 0.03 | 0.74 | 16.76 | 14,490 |
| ST106 Vapor Treatment Influent | | 3/31/08 | -- | 0.07 | 3.44 | 12.38 | 29,250 |
| ST106 Vapor Treatment Influent | | 4/17/08 | -- | 0.07 | 3.56 | 12.74 | 28,440 |
| ST106 Vapor Treatment Influent | | 5/14/08 | -6.3 | 0.13 | 3.62 | 13.30 | 32,400 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 Vapor Treatment Influent | | 6/25/08 | -10.0 | 0.17 | 3.40 | 13.40 | 33,570 |
| ST106 Vapor Treatment Influent | | 7/17/08 | -8.0 | 0.06 | 2.88 | 12.62 | 30,780 |
| ST106 Vapor Treatment Influent | | 9/30/08 | -5.20 | 0.10 | 3.34 | 13.70 | 28,890 |
| ST106 Vapor Treatment Influent | | 10/24/08 | >-0.3 | 6.02 | 0.86 | 17.56 | 1,208 |
| ST106 Vapor Treatment Influent | | 11/25/08 | <-30 | 0.08 | 3.50 | -- | 23,850 |
| ST106 Vapor Treatment Influent | | 12/9/08 | -29.5 | 0.02 | 3.02 | 17.76 | 23,490 |
| ST106 Vapor Treatment Influent | | 1/29/09 | <-30 | 0.00 | 2.32 | 17.75 | 15,201 |
| ST106 Vapor Treatment Influent | | 2/17/09 | -30 | 0.01 | 2.82 | 17.70 | 16,830 |
| ST106 Vapor Treatment Influent | | 3/24/09 | >-30 | 0.01 | 2.20 | 17.35 | 15,930 |
| ST106 Vapor Treatment Influent | | 3/31/09 | >-30 | 0.00 | 2.44 | 17.49 | 20,970 |
| ST106 Vapor Treatment Influent | | 4/28/09 | -- | 0.01 | 2.90 | 16.48 | 14,967 |
| ST106 Vapor Treatment Influent | | 5/11/09 | <-30 | 0.01 | 1.76 | 17.49 | 22,950 |
| ST106 Vapor Treatment Influent | | 6/23/09 | >-30 | 0.00 | 2.72 | 16.30 | 14,742 |
| ST106 Vapor Treatment Influent | | 7/16/09 | -14.20 | 0.00 | 3.66 | 14.47 | 18,000 |
| ST106 Vapor Treatment Influent | | 8/21/09 | <-30 | 0.01 | 3.08 | 15.90 | 16,920 |
| ST106 Vapor Treatment Influent | | 9/15/09 | <-30 | 0.01 | 2.72 | 16.03 | 14,148 |
| ST106 Vapor Treatment Influent | | 10/30/09 | -18.00 | 0.02 | 5.22 | 13.83 | 29,700 |
| ST106 Vapor Treatment Influent | | 11/11/09 | -14.5 | 0.02 | 5.12 | 13.55 | 25,110 |
| ST106 Vapor Treatment Influent | | 12/9/09 | -14.5 | 0.02 | 5.66 | 13.09 | 28,260 |
| ST106 Vapor Treatment Influent | | 1/15/10 | System not operating | | | | |
| ST106 Vapor Treatment Influent | | 2/18/10 | -9 | 0.00 | 7.38 | 8.94 | 29,790 |
| ST106 Vapor Treatment Influent | | 3/15/10 | -- | 0.01 | 5.72 | 13.47 | 26,550 |
| ST106 Vapor Treatment Influent | | 5/14/10 | < -30 | 0.00 | 1.74 | 17.53 | 10,512 |
| ST106 Vapor Treatment Influent | | 6/29/10 | < -30 | 0.02 | 3.04 | 16.13 | 16,065 |
| ST106 E1 Pre Cat A | | 8/17/04 | -- | 0.42 | 11.68 | 1.12 | 157 |
| ST106 E1 Pre Cat A | | 8/19/04 | -- | 0.44 | 11.92 | 1.12 | 112 |
| ST106 E1 Pre Cat A | | 9/2/04 | -- | 0.46 | 12.12 | 0.84 | 241 |
| ST106 E1 Pre Cat A | | 9/21/04 | -- | 0.55 | 11.78 | 1.72 | 150 |
| ST106 E1 Pre Cat A | | 11/16/04 | -- | 0.42 | 11.38 | 1.70 | 423 |
| ST106 E1 Pre Cat A | | 5/4/05 | -- | 0.52 | 11.66 | 1.28 | 562 |
| ST106 E1 Pre Cat A | | 10/13/05 | 10 | 0.50 | 12.06 | 1.92 | 215 |
| ST106 E1 Pre Cat A | | 11/21/05 | 8.0 | 0.55 | 11.54 | 1.82 | 263 |
| ST106 E1 Pre Cat A | | 12/7/05 | 9.0 | 0.58 | 12.00 | 1.36 | 391 |
| ST106 E1 Pre Cat A | | 1/20/06 | 1.4 | 0.60 | 12.04 | 1.42 | 307 |
| ST106 E1 Pre Cat A | | 2/23/06 | -- | 0.46 | 11.96 | 1.60 | 181 |
| ST106 E1 Pre Cat A | | 3/31/06 | -- | 0.66 | 12.22 | 1.56 | 670 |
| ST106 E1 Pre Cat A | | 4/11/06 | 10.0 | 0.68 | 12.72 | 1.46 | 508 |
| ST106 E1 Pre Cat A | | 5/31/06 | 13.5 | 1.68 | 19.36 | 1.40 | 535 |
| ST106 E1 Pre Cat A | | 6/29/06 | -11.0 | 0.59 | 12.92 | 1.52 | 338 |
| ST106 E1 Pre Cat A | | 7/12/06 | 12 | 0.63 | 12.84 | 1.48 | 398 |
| ST106 E1 Pre Cat A | | 8/9/06 | 16 | 0.57 | 12.74 | 1.60 | 337 |
| ST106 E1 Pre Cat A | | 9/21/06 | 10.3 | 0.55 | 12.98 | 1.52 | 290 |
| ST106 E1 Pre Cat A | | 10/25/06 | 13 | 0.47 | 13.32 | 1.46 | 211 |
| ST106 E1 Pre Cat A | | 11/16/06 | 12 | 0.42 | 12.66 | 1.14 | 149 |
| ST106 E1 Pre Cat A | | 12/11/06 | 6.6 | 0.42 | 13.00 | 1.74 | 171 |
| ST106 E1 Pre Cat A | | 1/4/07 | 8.5 | 0.43 | 14.06 | 1.30 | 101 |
| ST106 E1 Pre Cat A | | 2/28/07 | 10 | 0.60 | 13.60 | 1.74 | 242 |
| ST106 E1 Pre Cat A | | 3/16/07 | 10 | 0.47 | 11.00 | 5.28 | 271 |
| ST106 E1 Pre Cat A | | 4/30/07 | 11 | 0.66 | 11.14 | 4.88 | 726 |
| ST106 E1 Pre Cat A | | 5/18/07 | 12 | 0.86 | 11.42 | 4.46 | 801 |
| ST106 E1 Pre Cat A | | 6/29/07 | 5.60 | 0.39 | 11.18 | 4.18 | 292 |
| ST106 E1 Pre Cat A | | 8/22/07 | 9.20 | 0.77 | 9.84 | 5.66 | 1,015 |
| ST106 E1 Pre Cat A | | 9/28/07 | 7.2 | 0.78 | 11.12 | 4.16 | 1,578 |
| ST106 E1 Pre Cat A | | 10/15/07 | 6.9 | 0.61 | 10.36 | 5.80 | 1,542 |
| ST106 E1 Pre Cat A | | 11/28/07 | 8.0 | 0.66 | 11.14 | 5.94 | 2,100 |
| ST106 E1 Pre Cat A | | 1/24/08 | 6.8 | 0.62 | 10.22 | 6.02 | 1,925 |
| ST106 E1 Pre Cat A | | 2/29/08 | 8.00 | 0.65 | 10.30 | 4.66 | 1,310 |
| ST106 E1 Pre Cat A | | 4/17/08 | -- | 0.79 | 11.12 | 2.68 | 1,510 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E1 Pre Cat A | | 5/14/08 | 2.3 | 0.71 | 10.46 | 5.42 | 2,220 |
| ST106 E1 Pre Cat A | | 6/25/08 | 5.0 | 0.63 | 11.58 | 3.06 | 2,800 |
| ST106 E1 Pre Cat A | | 7/17/08 | 7.5 | 0.68 | 8.92 | 5.72 | 1,749 |
| ST106 E1 Pre Cat A | | 9/30/08 | 14.50 | 0.51 | 13.60 | 1.20 | 90 |
| ST106 E1 Pre Cat A | | 10/24/08 | 7.00 | 0.48 | 13.20 | 1.40 | 15 |
| ST106 E1 Pre Cat A | | 11/25/08 | 11.50 | 0.42 | 11.98 | 2.06 | 100 |
| ST106 E1 Pre Cat A | | 12/9/08 | 15.00 | 0.45 | 15.66 | 1.78 | 170 |
| ST106 E1 Pre Cat A | | 1/29/09 | 2.30 | 0.35 | 11.42 | 3.00 | 114 |
| ST106 E1 Pre Cat A | | 2/17/09 | 14.00 | 0.34 | 12.20 | 1.40 | 148 |
| ST106 E1 Pre Cat A | | 3/24/09 | 11 | 0.39 | 12.16 | 1.37 | 189 |
| ST106 E1 Pre Cat A | | 3/31/09 | 11.5 | 0.28 | 9.18 | 6.72 | 109 |
| ST106 E1 Pre Cat A | | 4/28/09 | -- | 0.35 | 12.08 | 1.58 | 222 |
| ST106 E1 Pre Cat A | | 5/11/09 | 12 | 0.34 | 10.14 | 4.50 | 169 |
| ST106 E1 Pre Cat A | | 6/23/09 | 9.8 | 0.28 | 7.06 | 9.74 | 311 |
| ST106 E1 Pre Cat A | | 7/16/09 | 12.50 | 0.62 | 10.90 | 2.54 | 891 |
| ST106 E1 Pre Cat A | | 8/21/09 | 12 | 0.45 | 11.86 | 1.29 | 250 |
| ST106 E1 Pre Cat A | | 9/15/09 | 10.0 | 0.38 | 11.74 | 1.65 | 294 |
| ST106 E1 Pre Cat A | | 10/30/09 | 14.00 | 0.45 | 12.56 | 1.78 | 296 |
| ST106 E1 Pre Cat A | | 11/11/09 | 9.5 | 0.56 | 12.86 | 1.95 | 213 |
| ST106 E1 Pre Cat A | | 12/9/09 | 0.60 | 0.48 | 12.62 | 1.93 | 232 |
| ST106 E1 Pre Cat A | | 1/15/10 | System not operating | | | | |
| ST106 E1 Pre Cat A | | 2/18/10 | 0.79 | 0.72 | 12.16 | 1.82 | 509 |
| ST106 E1 Pre Cat A | | 3/15/10 | -- | 0.62 | 12.10 | 2.57 | 466 |
| ST-106 E1 Pre Cat A | | 5/14/10 | 12.0 | 0.15 | 2.52 | 17.00 | 220 |
| ST106 E1 Pre Cat A | | 6/29/10 | 16 | 0.54 | 11.86 | 1.60 | 395 |
| ST106 E1 Pre Cat B | | 8/17/04 | -- | 0.38 | 11.96 | 0.66 | 122 |
| ST106 E1 Pre Cat B | | 8/19/04 | -- | 0.28 | 8.54 | 6.80 | 105 |
| ST106 E1 Pre Cat B | | 9/2/04 | -- | 0.43 | 12.06 | 1.06 | 161 |
| ST106 E1 Pre Cat B | | 9/21/04 | -- | 0.29 | 10.36 | 4.12 | 79 |
| ST106 E1 Pre Cat B | | 11/16/04 | -- | 0.38 | 11.02 | 2.36 | 576 |
| ST106 E1 Pre Cat B | | 1/13/05 | -- | 0.36 | 11.08 | 2.38 | 681 |
| ST106 E1 Pre Cat B | | 3/22/05 | -- | 0.44 | 11.80 | 1.28 | 314 |
| ST106 E1 Pre Cat B | | 5/4/05 | -- | 0.50 | 11.26 | 1.98 | 681 |
| ST106 E1 Pre Cat B | | 10/13/05 | 8 | 0.52 | 12.00 | 2.06 | 406 |
| ST106 E1 Pre Cat B | | 11/21/05 | 9.0 | 0.48 | 10.00 | 4.54 | 662 |
| ST106 E1 Pre Cat B | | 12/7/05 | 9.8 | 0.56 | 11.98 | 1.58 | 246 |
| ST106 E1 Pre Cat B | | 1/20/06 | 2.9 | 0.54 | 11.92 | 1.74 | 375 |
| ST106 E1 Pre Cat B | | 2/23/06 | -- | 0.48 | 11.82 | 1.78 | 238 |
| ST106 E1 Pre Cat B | | 3/31/06 | -- | 0.64 | 12.34 | 1.58 | 479 |
| ST106 E1 Pre Cat B | | 4/11/06 | 10.0 | 0.63 | 12.56 | 1.68 | 554 |
| ST106 E1 Pre Cat B | | 5/31/06 | 11 | 1.23 | 19.24 | 1.46 | 776 |
| ST106 E1 Pre Cat B | | 6/29/06 | -9 | 0.54 | 13.06 | 1.48 | 273 |
| ST106 E1 Pre Cat B | | 7/12/06 | 11.5 | 0.61 | 12.96 | 1.44 | 399 |
| ST106 E1 Pre Cat B | | 8/9/06 | 14 | 0.58 | 12.70 | 1.64 | 462 |
| ST106 E1 Pre Cat B | | 9/21/06 | 10.3 | 0.54 | 12.56 | 2.00 | 376 |
| ST106 E1 Pre Cat B | | 10/25/06 | 13 | 0.47 | 13.32 | 1.46 | 211 |
| ST106 E1 Pre Cat B | | 11/16/06 | 12 | 0.42 | 12.66 | 1.14 | 149 |
| ST106 E1 Pre Cat B | | 12/11/06 | 6.6 | 0.42 | 13.00 | 1.74 | 171 |
| ST106 E1 Pre Cat B | | 1/4/07 | 6 | 0.45 | 13.62 | 1.88 | 153 |
| ST106 E1 Pre Cat B | | 2/28/07 | 3 | 0.56 | 12.76 | 2.84 | 402 |
| ST106 E1 Pre Cat B | | 3/16/07 | 3.4 | 0.53 | 12.16 | 3.58 | 786 |
| ST106 E1 Pre Cat B | | 4/30/07 | 11.8 | 0.67 | 11.48 | 4.30 | 759 |
| ST106 E1 Pre Cat B | | 5/18/07 | 8 | 0.75 | 11.72 | 3.76 | 1,048 |
| ST106 E1 Pre Cat B | | 6/29/07 | 4.20 | 0.34 | 9.52 | 6.62 | 592 |
| ST106 E1 Pre Cat B | | 8/22/07 | 11.00 | 0.76 | 9.94 | 4.90 | 1,145 |
| ST106 E1 Pre Cat B | | 9/28/07 | 9.1 | 0.71 | 10.08 | 5.72 | 1,158 |
| ST106 E1 Pre Cat B | | 10/15/07 | 8.2 | 0.67 | 10.94 | 4.62 | 1,852 |
| ST106 E1 Pre Cat B | | 11/28/07 | 9.6 | 0.06 | 10.74 | 5.84 | 1,203 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E1 Pre Cat B | | 1/24/08 | 5.6 | 0.73 | 11.26 | 4.48 | 2,520 |
| ST106 E1 Pre Cat B | | 2/29/08 | 7.00 | 0.64 | 10.62 | 4.26 | 1,391 |
| ST106 E1 Pre Cat B | | 4/17/08 | -- | 0.77 | 10.88 | 3.30 | 473 |
| ST106 E1 Pre Cat B | | 5/14/08 | 2.6 | 0.81 | 11.70 | 3.50 | 2,360 |
| ST106 E1 Pre Cat B | | 6/25/08 | 7.0 | 0.64 | 11.96 | 2.55 | 1,816 |
| ST106 E1 Pre Cat B | | 7/17/08 | 5.8 | 0.59 | 8.74 | 6.30 | 2,160 |
| ST106 E1 Pre Cat B | | 9/30/08 | 16.50 | 0.51 | 13.90 | 0.82 | 92 |
| ST106 E1 Pre Cat B | | 10/24/08 | 8.20 | 0.48 | 12.88 | 2.08 | 58 |
| ST106 E1 Pre Cat B | | 11/25/08 | 12.50 | 0.44 | 12.32 | 1.12 | 105 |
| ST106 E1 Pre Cat B | | 12/9/08 | 15.50 | 0.51 | 15.62 | 1.76 | 151 |
| ST106 E1 Pre Cat B | | 1/29/09 | 7.10 | 0.37 | 11.44 | 2.84 | 145 |
| ST106 E1 Pre Cat B | | 2/17/09 | 13.00 | 0.35 | 12.14 | 1.42 | 157 |
| ST106 E1 Pre Cat B | | 3/24/09 | 10.5 | 0.41 | 12.28 | 1.14 | 206 |
| ST106 E1 Pre Cat B | | 3/31/09 | 10 | 0.19 | 6.42 | 8.37 | 170 |
| ST106 E1 Pre Cat B | | 4/28/09 | -- | 0.37 | 12.02 | 1.63 | 213 |
| ST106 E1 Pre Cat B | | 5/11/09 | 12 | 0.23 | 7.14 | 9.16 | 151 |
| ST106 E1 Pre Cat B | | 6/23/09 | 5.2 | 0.58 | 11.16 | 3.01 | 533 |
| ST106 E1 Pre Cat B | | 7/16/09 | 12.00 | 0.58 | 9.14 | 5.38 | 2,310 |
| ST106 E1 Pre Cat B | | 8/21/09 | 12.5 | 0.48 | 11.39 | 1.96 | 352 |
| ST106 E1 Pre Cat B | | 9/15/09 | 6.5 | 0.43 | 11.22 | 2.34 | 312 |
| ST106 E1 Pre Cat B | | 10/30/09 | 13.00 | 0.46 | 12.37 | 1.89 | 288 |
| ST106 E1 Pre Cat B | | 11/11/09 | 10.0 | 0.64 | 12.54 | 2.33 | 588 |
| ST106 E1 Pre Cat B | | 12/9/09 | 8.0 | 0.53 | 12.82 | 1.65 | 217 |
| ST106 E1 Pre Cat B | | 1/15/10 | System not operating | | | | |
| ST106 E1 Pre Cat B | | 2/18/10 | Sample port blocked | | | | |
| ST106 E1 Pre Cat B | | 3/15/10 | System not operating | | | | |
| ST-106 E1 Pre Cat B | | 5/14/10 | 15.0 | 0.70 | 10.00 | 4.32 | 688 |
| ST106 E1 Pre Cat B | | 6/29/10 | 15 | 0.53 | 11.70 | 1.99 | 467 |
| ST106 E1 Post Cat | | 8/10/04 | -- | 0.15 | 9.58 | 4.60 | 418 |
| ST106 E1 Post Cat | | 8/17/04 | -- | 0.14 | 9.08 | 5.86 | 65 |
| ST106 E1 Post Cat | | 8/19/04 | -- | 0.22 | 9.62 | 5.14 | 83 |
| ST106 E1 Post Cat | | 8/25/04 | -- | 0.17 | 9.82 | 5.32 | 92 |
| ST106 E1 Post Cat | | 9/2/04 | -- | 0.20 | 9.38 | 5.82 | 115 |
| ST106 E1 Post Cat | | 9/21/04 | -- | 0.01 | 13.60 | 4.76 | 8 |
| ST106 E1 Post Cat | | 11/16/04 | -- | 0.04 | 6.54 | 11.56 | 27 |
| ST106 E1 Post Cat | | 11/23/04 | -- | 0.03 | 6.14 | 12.16 | 35 |
| ST106 E1 Post Cat | | 1/13/05 | -- | 0.05 | 5.64 | 1.78 | 42 |
| ST106 E1 Post Cat | | 3/22/05 | -- | 0.14 | 8.84 | 6.68 | 254 |
| ST106 E1 Post Cat | | 5/4/05 | -- | 0.15 | 8.14 | 8.20 | 264 |
| ST106 E1 Post Cat | | 10/13/05 | 1.8 | 0.01 | 7.66 | 9.72 | 12 |
| ST106 E1 Post Cat | | 11/21/05 | 2.2 | 0.01 | 7.44 | 9.62 | 29 |
| ST106 E1 Post Cat | | 12/7/05 | 6.0 | 0.01 | 7.46 | 9.70 | 25 |
| ST106 E1 Post Cat | | 1/20/06 | 1.3 | 0.03 | 7.54 | 9.82 | 47 |
| ST106 E1 Post Cat | | 2/23/06 | -- | 0.07 | 7.88 | 8.70 | 69 |
| ST106 E1 Post Cat | | 3/31/06 | -- | 0.08 | 8.18 | 9.06 | 88 |
| ST106 E1 Post Cat | | 4/11/06 | 1.4 | 0.13 | 9.54 | 7.14 | 168 |
| ST106 E1 Post Cat | | 5/31/06 | 1 | 0.02 | 15.38 | 5.44 | 32 |
| ST106 E1 Post Cat | | 6/29/06 | -1.8 | 0.01 | 7.20 | 10.22 | 20 |
| ST106 E1 Post Cat | | 7/12/06 | 1.4 | 0.03 | 7.76 | 9.74 | 20 |
| ST106 E1 Post Cat | | 8/9/06 | 1.4 | 0.01 | 7.18 | 10.82 | 8 |
| ST106 E1 Post Cat | | 9/21/06 | 1.5 | 0.02 | 7.46 | 10.58 | 24 |
| ST106 E1 Post Cat | | 10/25/06 | 1.4 | 0.03 | 6.30 | 12.76 | 26 |
| ST106 E1 Post Cat | | 11/16/06 | 1.3 | 0.06 | 0.96 | 11.34 | 28 |
| ST106 E1 Post Cat | | 12/11/06 | 0.96 | 0.06 | 5.70 | 13.88 | 102 |
| ST106 E1 Post Cat | | 1/4/07 | 0.74 | 0.09 | 6.88 | 12.40 | 35 |
| ST106 E1 Post Cat | | 2/28/07 | 20 | 0.09 | 4.68 | 14.76 | 80 |
| ST106 E1 Post Cat | | 3/16/07 | 1.2 | 0.08 | 6.52 | 12.46 | 136 |
| ST106 E1 Post Cat | | 4/30/07 | 1.3 | 0.13 | 6.14 | 12.80 | 195 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E1 Post Cat | | 5/18/07 | 1.2 | 0.17 | 6.96 | 11.54 | 269 |
| ST106 E1 Post Cat | | 6/29/07 | 0.75 | 0.04 | 5.36 | 12.92 | 220 |
| ST106 E1 Post Cat | | 8/22/07 | 1.50 | 0.37 | 13.92 | 0.20 | 171 |
| ST106 E1 Post Cat | | 9/28/07 | 1.1 | 0.24 | 13.70 | 1.20 | 136 |
| ST106 E1 Post Cat | | 10/15/07 | 1.3 | 0.11 | 12.12 | 9.32 | 114 |
| ST106 E1 Post Cat | | 11/28/07 | 1.4 | 0.07 | 10.66 | 6.20 | 159 |
| ST106 E1 Post Cat | | 1/24/08 | 1.6 | 0.05 | 5.68 | 13.24 | 168 |
| ST106 E1 Post Cat | | 2/29/08 | 1.60 | 0.04 | 4.84 | 15.68 | 75 |
| ST106 E1 Post Cat | | 4/17/08 | -- | 0.06 | 3.14 | 17.42 | 62 |
| ST106 E1 Post Cat | | 5/14/08 | 0.8 | 0.07 | 4.70 | 14.82 | 205 |
| ST106 E1 Post Cat | | 6/25/08 | 1.2 | 0.05 | 6.00 | 11.96 | 317 |
| ST106 E1 Post Cat | | 7/17/08 | 1.4 | 0.04 | 3.52 | 15.72 | 237 |
| ST106 E1 Post Cat | | 9/30/08 | 2.30 | 0.00 | 4.60 | 14.34 | 1 |
| ST106 E1 Post Cat | | 10/24/08 | 1.40 | 0.01 | 7.14 | 10.94 | 56 |
| ST106 E1 Post Cat | | 11/25/08 | 2.05 | 0.51 | 12.04 | 1.54 | 451 |
| ST106 E1 Post Cat | | 12/9/08 | 1.70 | 0.00 | 5.08 | 15.13 | 26 |
| ST106 E1 Post Cat | | 1/29/09 | 1.30 | 0.00 | 3.60 | 15.91 | 13 |
| ST106 E1 Post Cat | | 2/17/09 | 1.80 | 0.00 | 3.86 | 15.45 | 31 |
| ST106 E1 Post Cat | | 3/24/09 | 2 | 0.00 | 4.28 | 14.62 | 20 |
| ST106 E1 Post Cat | | 3/31/09 | 2 | 0.01 | 2.44 | 18.48 | 16 |
| ST106 E1 Post Cat | | 4/28/09 | -- | 0.00 | 3.02 | 17.05 | 22 |
| ST106 E1 Post Cat | | 5/11/09 | 2 | 0.01 | 2.46 | 16.30 | 17 |
| ST106 E1 Post Cat | | 6/23/09 | 1.4 | 0.01 | 1.74 | 18.62 | 25 |
| ST106 E1 Post Cat | | 7/16/09 | 2.30 | 0.01 | 3.76 | 14.93 | 200 |
| ST106 E1 Post Cat | | 8/21/09 | 1.5 | 0.01 | 4.06 | 14.85 | 46 |
| ST106 E1 Post Cat | | 9/15/09 | 1.5 | 0.01 | 3.86 | 14.55 | 41 |
| ST106 E1 Post Cat | | 10/30/09 | 0.59 | 0.00 | 5.40 | 13.37 | 13 |
| ST106 E1 Post Cat | | 11/11/09 | 0.64 | 0.03 | 6.08 | 13.58 | 29 |
| ST106 E1 Post Cat | | 12/9/09 | 10.0 | 0.00 | 6.02 | 12.68 | 28 |
| ST106 E1 Post Cat | | 1/15/10 | System not operating | | | | |
| ST106 E1 Post Cat | | 2/18/10 | 11 | 0.00 | 4.72 | 14.07 | 137 |
| ST106 E1 Post Cat | | 3/15/10 | -- | 0.03 | 5.74 | 14.04 | 35 |
| ST-106 E1 Post Cat | | 5/14/10 | 1.2 | 0.04 | 0.48 | 16.60 | 76 |
| ST106 E1 Post Cat | | 6/29/10 | 3 | 0.00 | 5.48 | 12.09 | 4 |
| ST106 E2 Pre Cat A | | 8/17/04 | -- | 0.72 | 10.74 | 0.72 | 1,606 |
| ST106 E2 Pre Cat A | | 8/19/04 | -- | 0.50 | 11.70 | 1.30 | 501 |
| ST106 E2 Pre Cat A | | 9/2/04 | -- | 0.46 | 11.66 | 1.64 | 872 |
| ST106 E2 Pre Cat A | | 9/21/04 | -- | 0.32 | 11.66 | 1.98 | 350 |
| ST106 E2 Pre Cat A | | 11/16/04 | -- | 0.72 | 11.30 | 1.62 | 627 |
| ST106 E2 Pre Cat A | | 1/13/05 | -- | 0.45 | 11.50 | 1.00 | 172 |
| ST106 E2 Pre Cat A | | 8/11/05 | 10.0 | 0.44 | 11.08 | 1.20 | 169 |
| ST106 E2 Pre Cat A | | 9/20/05 | 4.2 | 0.89 | 11.82 | 7.30 | 1,490 |
| ST106 E2 Pre Cat A | | 10/13/05 | 7 | 0.56 | 11.90 | 1.60 | 550 |
| ST106 E2 Pre Cat A | | 11/21/05 | 5.2 | 0.35 | 12.46 | 0.86 | 85 |
| ST106 E2 Pre Cat A | | 12/7/05 | 8.8 | 0.47 | 12.12 | 1.32 | 224 |
| ST106 E2 Pre Cat A | | 1/20/06 | 9.8 | 0.49 | 12.40 | 1.20 | 216 |
| ST106 E2 Pre Cat A | | 2/23/06 | -- | 0.45 | 12.14 | 1.12 | 201 |
| ST106 E2 Pre Cat A | | 3/31/06 | -- | 0.54 | 12.60 | 1.44 | 372 |
| ST106 E2 Pre Cat A | | 4/11/06 | >30 | 0.39 | 13.18 | 1.16 | 114 |
| ST106 E2 Pre Cat A | | 5/31/06 | 15 | 1.00 | 19.40 | 1.76 | 256 |
| ST106 E2 Pre Cat A | | 9/21/06 | >30 | 0.48 | 13.40 | 0.96 | 142 |
| ST106 E2 Pre Cat A | | 11/16/06 | 8.5 | 0.55 | 11.80 | 2.20 | 400 |
| ST106 E2 Pre Cat A | | 12/11/06 | 5.3 | 0.50 | 12.48 | 2.06 | 466 |
| ST106 E2 Pre Cat A | | 1/4/07 | 6.25 | 0.53 | 13.68 | 1.80 | 230 |
| ST106 E2 Pre Cat A | | 2/28/07 | 6.3 | 0.58 | 12.50 | 3.38 | 394 |
| ST106 E2 Pre Cat A | | 3/16/07 | 7.4 | 0.58 | 12.94 | 2.56 | 306 |
| ST106 E2 Pre Cat A | | 4/30/07 | 8.4 | 0.74 | 11.52 | 4.72 | 763 |
| ST106 E2 Pre Cat A | | 5/18/07 | 1.5 | 0.54 | 10.72 | 6.24 | 468 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E2 Pre Cat A | | 8/22/07 | 4.80 | 0.55 | 12.52 | 4.64 | 564 |
| ST106 E2 Pre Cat A | | 9/28/07 | 6.0 | 0.53 | 12.30 | 3.44 | 747 |
| ST106 E2 Pre Cat A | | 10/15/07 | 7.3 | 0.40 | 11.52 | 4.48 | 386 |
| ST106 E2 Pre Cat A | | 11/28/07 | 2.6 | 0.14 | 11.18 | 5.42 | 265 |
| ST106 E2 Pre Cat A | | 1/24/08 | 4.5 | 0.69 | 12.50 | 2.32 | 1,115 |
| ST106 E2 Pre Cat A | | 2/29/08 | 8.20 | 0.44 | 11.46 | 2.92 | 465 |
| ST106 E2 Pre Cat A | | 4/17/08 | -- | 0.48 | 11.52 | 2.34 | 1,510 |
| ST106 E2 Pre Cat A | | 5/14/08 | 10 | 0.52 | 12.82 | 2.20 | 485 |
| ST106 E2 Pre Cat A | | 6/25/08 | 7.0 | 0.49 | 13.22 | 1.60 | 566 |
| ST106 E2 Pre Cat A | | 7/17/08 | 9.5 | 0.51 | 11.02 | 2.36 | 416 |
| ST106 E2 Pre Cat A | | 9/30/08 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 10/24/08 | 11.00 | 0.43 | 12.68 | 1.90 | 96 |
| ST106 E2 Pre Cat A | | 11/25/08 | 10.00 | 0.49 | 11.92 | 1.88 | 483 |
| ST106 E2 Pre Cat A | | 12/9/08 | 3.70 | 0.50 | 3.06 | 17.52 | 753 |
| ST106 E2 Pre Cat A | | 1/29/09 | 6.10 | 0.57 | 9.68 | 5.85 | 495 |
| ST106 E2 Pre Cat A | | 2/17/09 | 11.00 | 0.56 | 11.50 | 2.41 | 678 |
| ST106 E2 Pre Cat A | | 3/24/09 | 9.5 | 0.58 | 11.54 | 2.31 | 510 |
| ST106 E2 Pre Cat A | | 3/31/09 | 9 | 0.29 | 7.48 | 9.95 | 389 |
| ST106 E2 Pre Cat A | | 4/28/09 | -- | 0.69 | 11.52 | 2.06 | 488 |
| ST106 E2 Pre Cat A | | 5/11/09 | 15 | 0.40 | 8.94 | 5.22 | 563 |
| ST106 E2 Pre Cat A | | 6/23/09 | 15 | 0.26 | 5.66 | 12.16 | 401 |
| ST106 E2 Pre Cat A | | 7/16/09 | 14.00 | 0.45 | 9.74 | 4.45 | 479 |
| ST106 E2 Pre Cat A | | 8/21/09 | 14 | 0.50 | 10.86 | 2.72 | 743 |
| ST106 E2 Pre Cat A | | 9/15/09 | 14.0 | 0.56 | 11.02 | 2.57 | 603 |
| ST106 E2 Pre Cat A | | 10/30/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 11/11/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 12/9/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 1/15/10 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 2/18/10 | Engine not operating | | | | |
| ST106 E2 Pre Cat A | | 3/15/10 | Engine not operating | | | | |
| ST-106 E2 Pre Cat A | | 5/14/10 | > 30 | 0.42 | 7.14 | 9.68 | 365 |
| ST106 E2 Pre Cat A | | 6/29/10 | 15 | 0.57 | 11.92 | 1.63 | 376 |
| ST106 E2 Pre Cat B | | 8/17/04 | -- | 0.33 | 5.50 | 12.00 | 365 |
| ST106 E2 Pre Cat B | | 8/19/04 | -- | 0.47 | 10.62 | 3.12 | 618 |
| ST106 E2 Pre Cat B | | 9/2/04 | -- | 0.48 | 11.68 | 1.48 | 714 |
| ST106 E2 Pre Cat B | | 9/21/04 | -- | 0.36 | 12.20 | 1.28 | 229 |
| ST106 E2 Pre Cat B | | 11/16/04 | -- | 0.80 | 10.80 | 2.82 | 1,503 |
| ST106 E2 Pre Cat B | | 8/11/05 | 8.6 | 0.47 | 11.76 | 1.30 | 226 |
| ST106 E2 Pre Cat B | | 9/20/05 | 4.4 | 0.78 | 10.38 | 9.40 | 3,400 |
| ST106 E2 Pre Cat B | | 10/13/05 | 12 | 0.51 | 11.62 | 2.08 | 500 |
| ST106 E2 Pre Cat B | | 11/21/05 | 3.2 | 0.32 | 12.20 | 1.32 | 66 |
| ST106 E2 Pre Cat B | | 12/7/05 | 9.2 | 0.44 | 12.14 | 1.46 | 194 |
| ST106 E2 Pre Cat B | | 1/20/06 | 9.2 | 0.45 | 12.10 | 1.72 | 218 |
| ST106 E2 Pre Cat B | | 2/23/06 | -- | 0.43 | 12.34 | 1.06 | 184 |
| ST106 E2 Pre Cat B | | 3/31/06 | -- | 0.54 | 12.42 | 1.54 | 486 |
| ST106 E2 Pre Cat B | | 4/11/06 | >30 | 0.40 | 13.16 | 1.42 | 223 |
| ST106 E2 Pre Cat B | | 5/31/06 | 14.5 | 1.17 | 19.12 | 1.58 | 1,070 |
| ST106 E2 Pre Cat B | | 9/21/06 | >30 | 0.49 | 13.10 | 1.34 | 207 |
| ST106 E2 Pre Cat B | | 11/16/06 | 12.1 | 0.51 | 11.80 | 2.20 | 410 |
| ST106 E2 Pre Cat B | | 12/11/06 | 5.8 | 0.50 | 12.40 | 2.34 | 347 |
| ST106 E2 Pre Cat B | | 1/4/07 | 5.75 | 0.53 | 13.54 | 2.08 | 241 |
| ST106 E2 Pre Cat B | | 2/28/07 | 4.3 | 0.65 | 13.30 | 1.74 | 482 |
| ST106 E2 Pre Cat B | | 3/16/07 | 5.4 | 0.64 | 13.34 | 1.38 | 455 |
| ST106 E2 Pre Cat B | | 5/18/07 | 13 | 0.74 | 13.16 | 2.12 | 605 |
| ST106 E2 Pre Cat B | | 8/22/07 | 11.00 | 0.55 | 12.70 | 1.48 | 487 |
| ST106 E2 Pre Cat B | | 9/28/07 | 8.0 | 0.45 | 10.60 | 5.60 | 503 |
| ST106 E2 Pre Cat B | | 10/15/07 | 8.7 | 0.35 | 9.44 | 7.10 | 381 |
| ST106 E2 Pre Cat B | | 11/28/07 | 2.6 | 0.50 | 13.40 | 2.34 | 278 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E2 Pre Cat B | | 1/24/08 | 12 | 0.68 | 12.60 | 2.24 | 982 |
| ST106 E2 Pre Cat B | | 2/29/08 | 10.00 | 0.45 | 11.74 | 2.36 | 478 |
| ST106 E2 Pre Cat B | | 4/17/08 | -- | 0.47 | 11.86 | 1.82 | 502 |
| ST106 E2 Pre Cat B | | 5/14/08 | 11 | 0.52 | 12.94 | 2.00 | 601 |
| ST106 E2 Pre Cat B | | 6/25/08 | 8.0 | 0.50 | 12.92 | 1.82 | 707 |
| ST106 E2 Pre Cat B | | 7/17/08 | 11 | 0.52 | 10.92 | 2.22 | 935 |
| ST106 E2 Pre Cat B | | 9/30/08 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 10/24/08 | 9.50 | 0.44 | 13.42 | 0.98 | 70 |
| ST106 E2 Pre Cat B | | 11/25/08 | 7.00 | 0.01 | 3.48 | 17.74 | 6 |
| ST106 E2 Pre Cat B | | 12/9/08 | 5.40 | 0.41 | 14.32 | 3.64 | 1,565 |
| ST106 E2 Pre Cat B | | 1/29/09 | 9.20 | 0.61 | 10.18 | 4.88 | 753 |
| ST106 E2 Pre Cat B | | 2/17/09 | 15.00 | 0.48 | 11.74 | 2.01 | 363 |
| ST106 E2 Pre Cat B | | 3/24/09 | 14 | 0.56 | 11.90 | 1.70 | 447 |
| ST106 E2 Pre Cat B | | 3/31/09 | 11.5 | 0.32 | 8.40 | 8.07 | 278 |
| ST106 E2 Pre Cat B | | 4/28/09 | -- | 0.66 | 11.34 | 2.33 | 952 |
| ST106 E2 Pre Cat B | | 5/11/09 | 14 | 0.41 | 9.06 | 5.93 | 385 |
| ST106 E2 Pre Cat B | | 6/23/09 | 15 | 0.32 | 7.30 | 9.75 | 342 |
| ST106 E2 Pre Cat B | | 7/16/09 | 14.50 | 0.51 | 11.50 | 1.56 | 575 |
| ST106 E2 Pre Cat B | | 8/21/09 | 14 | 0.49 | 11.42 | 1.79 | 377 |
| ST106 E2 Pre Cat B | | 9/15/09 | 14.0 | 0.57 | 11.28 | 2.10 | 824 |
| ST106 E2 Pre Cat B | | 10/30/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 11/11/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 12/9/09 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 1/15/10 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 2/18/10 | Engine not operating | | | | |
| ST106 E2 Pre Cat B | | 3/15/10 | Engine not operating | | | | |
| ST-106 E2 Pre Cat B | | 5/14/10 | > 30 | 0.35 | 6.40 | 11.08 | 342 |
| ST106 E2 Pre Cat B | | 6/29/10 | 15 | 0.56 | 11.92 | 1.59 | 323 |
| ST106 E2 Post Cat | | 8/10/04 | -- | 0.14 | 9.12 | 5.86 | 709 |
| ST106 E2 Post Cat | | 8/17/04 | -- | 0.20 | 7.80 | 8.00 | 435 |
| ST106 E2 Post Cat | | 8/19/04 | -- | 0.09 | 6.84 | 9.82 | 221 |
| ST106 E2 Post Cat | | 8/25/04 | -- | 0.08 | 8.14 | 8.12 | 336 |
| ST106 E2 Post Cat | | 9/2/04 | -- | 0.09 | 7.98 | 8.34 | 377 |
| ST106 E2 Post Cat | | 9/21/04 | -- | 0.01 | 10.96 | 3.74 | 4 |
| ST106 E2 Post Cat | | 11/16/04 | -- | 0.14 | 5.20 | 12.62 | 49 |
| ST106 E2 Post Cat | | 11/23/04 | -- | 0.01 | 8.72 | 7.36 | 15 |
| ST106 E2 Post Cat | | 1/13/05 | -- | 0.09 | 7.56 | 8.48 | 35 |
| ST106 E2 Post Cat | | 8/11/05 | 1.6 | 0.00 | 6.68 | 10.22 | 10 |
| ST106 E2 Post Cat | | 9/20/05 | 1.1 | 0.05 | 5.24 | 14.80 | 247 |
| ST106 E2 Post Cat | | 10/13/05 | 2.0 | 0.02 | 8.16 | 8.30 | 50 |
| ST106 E2 Post Cat | | 11/21/05 | 1.6 | 0.01 | 6.82 | 10.44 | 17 |
| ST106 E2 Post Cat | | 12/7/05 | 1.2 | 0.02 | 7.22 | 11.40 | 54 |
| ST106 E2 Post Cat | | 1/20/06 | 1.2 | 0.07 | 7.84 | 9.68 | 80 |
| ST106 E2 Post Cat | | 2/23/06 | -- | 0.11 | 6.66 | 10.46 | 99 |
| ST106 E2 Post Cat | | 3/31/06 | -- | 0.15 | 8.18 | 8.68 | 137 |
| ST106 E2 Post Cat | | 4/11/06 | 1.5 | 0.21 | 13.26 | 1.56 | 123 |
| ST106 E2 Post Cat | | 5/31/06 | 1.5 | 0.02 | 13.12 | 7.42 | 78 |
| ST106 E2 Post Cat | | 9/21/06 | -1.6 | 0.05 | 8.14 | 9.46 | 34 |
| ST106 E2 Post Cat | | 11/16/06 | 1.5 | 0.01 | 6.36 | 11.74 | 7 |
| ST106 E2 Post Cat | | 12/11/06 | 1.2 | 0.01 | 5.04 | 14.50 | 35 |
| ST106 E2 Post Cat | | 1/4/07 | 0.83 | 0.01 | 6.14 | 14.08 | 36 |
| ST106 E2 Post Cat | | 2/28/07 | 4 | 0.03 | 3.86 | 15.52 | 52 |
| ST106 E2 Post Cat | | 3/16/07 | 1.6 | 0.06 | 6.08 | 13.20 | 59 |
| ST106 E2 Post Cat | | 4/30/07 | 1.8 | 0.12 | 5.96 | 12.98 | 137 |
| ST106 E2 Post Cat | | 5/18/07 | 11 | 0.09 | 6.58 | 12.04 | 164 |
| ST106 E2 Post Cat | | 8/22/07 | 1.30 | 0.01 | 12.60 | 2.16 | 52 |
| ST106 E2 Post Cat | | 9/28/07 | 1.1 | 0.01 | 12.86 | 2.98 | 413 |
| ST106 E2 Post Cat | | 10/15/07 | 1.3 | 0.02 | 14.08 | 1.10 | 296 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| ST106 E2 Post Cat | | 11/28/07 | 0.80 | 0.11 | 12.80 | 3.84 | 223 |
| ST106 E2 Post Cat | | 1/24/08 | 1.2 | 0.07 | 11.28 | 5.04 | 286 |
| ST106 E2 Post Cat | | 2/29/08 | 1.30 | 0.03 | 11.30 | 5.02 | 201 |
| ST106 E2 Post Cat | | 4/17/08 | -- | 0.09 | 10.68 | 4.88 | 309 |
| ST106 E2 Post Cat | | 5/14/08 | 1.4 | 0.15 | 13.20 | 1.94 | 444 |
| ST106 E2 Post Cat | | 6/25/08 | 1.0 | 0.09 | 11.50 | 4.68 | 412 |
| ST106 E2 Post Cat | | 7/17/08 | 1.4 | 0.09 | 11.28 | 2.70 | 485 |
| ST106 E2 Post Cat | | 9/30/08 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 10/24/08 | 1.60 | 0.01 | 9.82 | 6.64 | 57 |
| ST106 E2 Post Cat | | 11/25/08 | 1.90 | 0.03 | 7.36 | 9.88 | 31 |
| ST106 E2 Post Cat | | 12/9/08 | 1.30 | . | 9.52 | 9.62 | 668 |
| ST106 E2 Post Cat | | 1/29/09 | 1.20 | 0.10 | 5.80 | 12.55 | 81 |
| ST106 E2 Post Cat | | 2/17/09 | 1.50 | 0.02 | 7.22 | 10.32 | 37 |
| ST106 E2 Post Cat | | 3/24/09 | 2.2 | 0.04 | 7.52 | 9.57 | 46 |
| ST106 E2 Post Cat | | 3/31/09 | 2 | 0.01 | 3.46 | 16.81 | 51 |
| ST106 E2 Post Cat | | 4/28/09 | -- | 0.11 | 7.14 | 10.05 | 67 |
| ST106 E2 Post Cat | | 5/11/09 | 2 | 0.00 | 5.18 | 11.86 | 44 |
| ST106 E2 Post Cat | | 6/23/09 | 1.2 | 0.02 | 2.90 | 13.84 | 51 |
| ST106 E2 Post Cat | | 7/16/09 | 2.40 | 0.03 | 4.96 | 12.45 | 58 |
| ST106 E2 Post Cat | | 8/21/09 | 1.5 | 0.02 | 4.96 | 13.23 | 79 |
| ST106 E2 Post Cat | | 9/15/09 | 1.7 | 0.04 | 5.02 | 12.76 | 83 |
| ST106 E2 Post Cat | | 10/30/09 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 11/11/09 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 12/9/09 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 1/15/10 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 2/18/10 | Engine not operating | | | | |
| ST106 E2 Post Cat | | 3/15/10 | Engine not operating | | | | |
| ST-106 E2 Post Cat | | 5/14/10 | 1.0 | 0.05 | 4.20 | 14.20 | 84 |
| ST106 E2 Post Cat | | 6/29/10 | 3 | 0.00 | 7.10 | 10.27 | 7 |
| KAFB-1065 Vapor Treatment Influent | | 10/24/08 | -30.00 | 0.16 | 4.14 | 8.50 | 45,180 |
| KAFB-1065 Vapor Treatment Influent | | 1/29/09 | <-30 | 0.00 | 5.46 | 7.62 | 42,300 |
| KAFB-1065 Vapor Treatment Influent | | 2/18/09 | <-30 | 0.00 | 5.60 | 9.94 | 34,830 |
| KAFB-1065 Vapor Treatment Influent | | 11/25/08 | <-30 | 0.33 | 10.92 | -- | 78,660 |
| KAFB-1065 Vapor Treatment Influent | | 3/24/09 | >-30 | 0.02 | 4.44 | 11.79 | 30,690 |
| KAFB-1065 Vapor Treatment Influent | | 3/31/09 | -- | 0.01 | 5.52 | 9.08 | 34,470 |
| KAFB-1065 Vapor Treatment Influent | | 4/28/09 | -- | 0.03 | 5.10 | 10.22 | 36,720 |
| KAFB-1065 Vapor Treatment Influent | | 5/11/09 | <-30 | 0.03 | 5.10 | 10.86 | 26,100 |
| KAFB-1065 Vapor Treatment Influent | | 6/23/09 | -- | 0.01 | 5.00 | 11.22 | 28,710 |
| KAFB-1065 Vapor Treatment Influent | | 7/16/09 | -18.50 | 0.02 | 5.76 | 10.71 | 28,080 |
| KAFB-1065 Vapor Treatment Influent | | 8/21/09 | -20.5 | 0.02 | 6.00 | 9.89 | 30,420 |
| KAFB-1065 Vapor Treatment Influent | | 9/15/09 | -23.0 | 0.03 | 5.38 | 11.50 | 30,240 |
| KAFB-1065 Vapor Treatment Influent | | 10/30/09 | > -30 | 0.02 | 5.44 | 11.60 | 31,050 |
| KAFB-1065 Vapor Treatment Influent | | 11/11/09 | <-30 | 0.02 | 3.98 | 13.86 | 20,970 |
| KAFB-1065 Vapor Treatment Influent | | 12/30/09 | | 0.00 | 3.98 | 13.98 | 18,720 |
| KAFB-1065 Vapor Treatment Influent | | 1/15/10 | >-30 | 0.00 | 2.84 | 15.66 | 13,878 |
| KAFB-1065 Vapor Treatment Influent | | 2/18/10 | > - 30 | 0.00 | 2.98 | 15.91 | 16,272 |
| KAFB-1065 Vapor Treatment Influent | | 3/15/10 | System not operating | | | | |
| KAFB-1065 Vapor Treatment Influent | | 5/14/10 | > -30 | 0.01 | 0.36 | 20.32 | 12,834 |
| KAFB-1065 Vapor Treatment Influent | | 6/29/10 | < -30 | 0.00 | 0.52 | 20.27 | 11,115 |
| SVE-1065 E1 Pre Cat A | | 10/24/08 | 30.00 | 0.44 | 13.44 | 1.12 | 115 |
| SVE-1065 E1 Pre Cat A | | 11/25/08 | 30.00 | 0.05 | 11.08 | -- | 62 |
| SVE-1065 E1 Pre Cat A | | 1/29/09 | 18.00 | 0.31 | 10.46 | 3.27 | 203 |
| SVE-1065 E1 Pre Cat A | | 2/18/09 | 19.00 | 0.34 | 9.54 | 4.84 | 182 |
| SVE-1065 E1 Pre Cat A | | 3/24/09 | 16.5 | 0.26 | 7.60 | 8.18 | 250 |
| SVE-1065 E1 Pre Cat A | | 3/31/09 | -- | 0.30 | 9.84 | 4.36 | 136 |
| SVE-1065 E1 Pre Cat A | | 4/28/09 | -- | 0.33 | 12.04 | 0.85 | 148 |
| SVE-1065 E1 Pre Cat A | | 5/11/09 | 16 | 0.22 | 8.82 | 6.09 | 95 |
| SVE-1065 E1 Pre Cat A | | 6/23/09 | -- | 0.28 | 11.62 | 11.33 | 203 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1065 E1 Pre Cat A | | 7/16/09 | 9.00 | 0.68 | 10.82 | 2.25 | 761 |
| SVE-1065 E1 Pre Cat A | | 8/21/09 | 2.5 | 0.42 | 10.70 | 4.01 | 47 |
| SVE-1065 E1 Pre Cat A | | 9/15/09 | 7.0 | 0.53 | 10.36 | 3.33 | 520 |
| SVE-1065 E1 Pre Cat A | | 10/30/09 | 13.00 | 0.66 | 11.40 | 2.08 | 667 |
| SVE-1065 E1 Pre Cat A | | 11/11/09 | 7 | 0.43 | 12.08 | 1.61 | 174 |
| SVE-1065 E1 Pre Cat A | | 12/30/09 | Engine not operating | | | | |
| SVE-1065 E1 Pre Cat A | | 1/15/10 | 8.0 | 0.57 | 11.18 | 2.42 | 560 |
| SVE-1065 E1 Pre Cat A | | 2/18/10 | 7.5 | 0.54 | 11.26 | 2.86 | 312 |
| SVE-1065 E1 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1065 E1 Pre Cat A | | 5/14/10 | 6.0 | 0.26 | 7.98 | 8.56 | 172 |
| SVE-1065 E1 Pre Cat A | | 6/29/10 | Off | Off | Off | Off | Off |
| SVE-1065 E1 Pre Cat B | | 10/24/08 | 30.00 | 0.48 | 13.76 | 0.62 | 148 |
| SVE-1065 E1 Pre Cat B | | 11/25/08 | 30.00 | 0.33 | 9.02 | -- | 91 |
| SVE-1065 E1 Pre Cat B | | 1/29/09 | 19.00 | 0.43 | 9.72 | 4.39 | 241 |
| SVE-1065 E1 Pre Cat B | | 2/18/09 | 20.00 | 0.34 | 10.86 | 2.80 | 171 |
| SVE-1065 E1 Pre Cat B | | 3/24/09 | 16.5 | 0.32 | 7.98 | 7.70 | 195 |
| SVE-1065 E1 Pre Cat B | | 3/31/09 | -- | 0.27 | 8.72 | 6.36 | 90 |
| SVE-1065 E1 Pre Cat B | | 4/28/09 | -- | 0.37 | 12.06 | 0.76 | 116 |
| SVE-1065 E1 Pre Cat B | | 5/11/09 | 17 | 0.29 | 11.26 | 1.99 | 101 |
| SVE-1065 E1 Pre Cat B | | 6/23/09 | -- | 0.39 | 11.68 | 1.14 | 202 |
| SVE-1065 E1 Pre Cat B | | 7/16/09 | 9.00 | 0.68 | 9.22 | 4.70 | 1,150 |
| SVE-1065 E1 Pre Cat B | | 8/21/09 | 1.5 | 0.28 | 9.72 | 5.70 | 16 |
| SVE-1065 E1 Pre Cat B | | 9/15/09 | 7.0 | 0.70 | 9.90 | 3.92 | 1,680 |
| SVE-1065 E1 Pre Cat B | | 10/30/09 | 8.50 | 0.71 | 10.28 | 3.96 | 1,660 |
| SVE-1065 E1 Pre Cat B | | 11/11/09 | 7 | 0.45 | 11.64 | 2.29 | 106 |
| SVE-1065 E1 Pre Cat B | | 12/30/09 | Engine not operating | | | | |
| SVE-1065 E1 Pre Cat B | | 1/15/10 | 7.0 | 0.68 | 10.46 | 3.49 | 1,193 |
| SVE-1065 E1 Pre Cat B | | 2/18/10 | 5.5 | 0.63 | 10.88 | 3.43 | 825 |
| SVE-1065 E1 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1065 E1 Pre Cat B | | 5/14/10 | 4.0 | 0.29 | 7.58 | 9.08 | 678 |
| SVE-1065 E1 Pre Cat B | | 6/29/10 | Off | Off | Off | Off | Off |
| SVE-1065 E1 Post Cat | | 10/24/08 | 5.00 | 0.03 | 14.06 | 0.66 | 53 |
| SVE-1065 E1 Post Cat | | 11/25/08 | 5.00 | 0.32 | 9.44 | -- | 142 |
| SVE-1065 E1 Post Cat | | 1/29/09 | 2.00 | 0.10 | 7.14 | 9.32 | 111 |
| SVE-1065 E1 Post Cat | | 2/18/09 | 3.50 | 20.00 | 9.94 | 4.43 | 114 |
| SVE-1065 E1 Post Cat | | 3/24/09 | 4.5 | 0.29 | 8.88 | 6.12 | 150 |
| SVE-1065 E1 Post Cat | | 3/31/09 | -- | 0.29 | 9.82 | 4.35 | 80 |
| SVE-1065 E1 Post Cat | | 4/28/09 | -- | 0.36 | 12.12 | 0.63 | 99 |
| SVE-1065 E1 Post Cat | | 5/11/09 | 3 | 0.12 | 5.34 | 12.3 | 29 |
| SVE-1065 E1 Post Cat | | 6/23/09 | -- | 0.38 | 11.82 | 1.04 | 173 |
| SVE-1065 E1 Post Cat | | 7/16/09 | 2.00 | 0.78 | 10.70 | 2.22 | 1,014 |
| SVE-1065 E1 Post Cat | | 8/21/09 | 0.3 | 0.41 | 10.46 | 4.46 | 109 |
| SVE-1065 E1 Post Cat | | 9/15/09 | 1.2 | 0.68 | 10.68 | 2.64 | 1,056 |
| SVE-1065 E1 Post Cat | | 10/30/09 | 1.50 | 0.72 | 11.28 | 2.24 | 1,113 |
| SVE-1065 E1 Post Cat | | 11/11/09 | 1.5 | 0.47 | 12.40 | 0.98 | 168 |
| SVE-1065 E1 Post Cat | | 12/30/09 | Engine not operating | | | | |
| SVE-1065 E1 Post Cat | | 1/15/10 | 1.0 | 0.67 | 11.36 | 1.95 | 1,041 |
| SVE-1065 E1 Post Cat | | 2/18/10 | 1.2 | 0.63 | 11.64 | 2.18 | 644 |
| SVE-1065 E1 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1065 E1 Post Cat | | 5/14/10 | 1.3 | 0.28 | 7.60 | 9.20 | 402 |
| SVE-1065 E1 Post Cat | | 6/29/10 | Off | Off | Off | Off | Off |
| SVE-1065 E2 Pre Cat A | | 10/24/08 | 6.40 | 0.44 | 13.56 | 0.86 | 136 |
| SVE-1065 E2 Pre Cat A | | 11/25/08 | >30 | 0.41 | 10.94 | -- | 103 |
| SVE-1065 E2 Pre Cat A | | 1/29/09 | 17.00 | 0.34 | 9.22 | 5.84 | 209 |
| SVE-1065 E2 Pre Cat A | | 2/18/09 | 14.00 | 0.42 | 10.84 | 4.63 | 371 |
| SVE-1065 E2 Pre Cat A | | 3/24/09 | 17.5 | 0.28 | 9.58 | 5.36 | 145 |
| SVE-1065 E2 Pre Cat A | | 3/31/09 | -- | 0.21 | 7.42 | 8.82 | 87 |
| SVE-1065 E2 Pre Cat A | | 4/28/09 | -- | 0.35 | 11.94 | 0.88 | 169 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1065 E2 Pre Cat A | | 5/11/09 | 13 | 0.23 | 9.38 | 5.17 | 121 |
| SVE-1065 E2 Pre Cat A | | 6/23/09 | -- | 0.49 | 11.32 | 1.46 | 485 |
| SVE-1065 E2 Pre Cat A | | 7/16/09 | 8.00 | 0.31 | 11.40 | 1.92 | 105 |
| SVE-1065 E2 Pre Cat A | | 8/21/09 | 6.0 | 0.57 | 10.78 | 2.34 | 562 |
| SVE-1065 E2 Pre Cat A | | 9/15/09 | Engine not operating | | | | |
| SVE-1065 E2 Pre Cat A | | 10/30/09 | 3.00 | 0.33 | 10.82 | 3.96 | 89 |
| SVE-1065 E2 Pre Cat A | | 11/11/09 | 6 | 0.65 | 11.10 | 2.71 | 845 |
| SVE-1065 E2 Pre Cat A | | 12/30/09 | | 0.94 | 10.06 | 3.74 | 1,903 |
| SVE-1065 E2 Pre Cat A | | 1/15/10 | 6.5 | 0.49 | 11.36 | 2.27 | 309 |
| SVE-1065 E2 Pre Cat A | | 2/18/10 | 6.0 | 0.49 | 11.54 | 2.42 | 163 |
| SVE-1065 E2 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1065 E2 Pre Cat A | | 5/14/10 | 7.0 | 0.25 | 7.62 | 11.36 | 119 |
| SVE-1065 E2 Pre Cat A | | 6/29/10 | 9.0 | 0.63 | 11.18 | 2.45 | 539 |
| SVE-1065 E2 Pre Cat B | | 10/24/08 | 29.00 | 0.52 | 13.70 | 0.62 | 86 |
| SVE-1065 E2 Pre Cat B | | 11/25/08 | >30 | 0.41 | 10.20 | -- | 614 |
| SVE-1065 E2 Pre Cat B | | 1/29/09 | 17.00 | 0.20 | 7.42 | 8.68 | 298 |
| SVE-1065 E2 Pre Cat B | | 2/18/09 | 14.00 | 0.34 | 8.36 | 7.03 | 4 |
| SVE-1065 E2 Pre Cat B | | 3/24/09 | 17.5 | 0.23 | 7.88 | 8.13 | 98 |
| SVE-1065 E2 Pre Cat B | | 3/31/09 | -- | 0.24 | 8.22 | 7.45 | 96 |
| SVE-1065 E2 Pre Cat B | | 4/28/09 | -- | 0.38 | 11.86 | 1.00 | 184 |
| SVE-1065 E2 Pre Cat B | | 5/11/09 | 14 | 0.33 | 10.88 | 2.51 | 126 |
| SVE-1065 E2 Pre Cat B | | 6/23/09 | -- | 0.45 | 11.36 | 1.41 | 505 |
| SVE-1065 E2 Pre Cat B | | 7/16/09 | 8.00 | 0.22 | 8.64 | 6.52 | 71 |
| SVE-1065 E2 Pre Cat B | | 8/21/09 | 5.5 | 0.58 | 10.64 | 2.52 | 832 |
| SVE-1065 E2 Pre Cat B | | 9/15/09 | Engine not operating | | | | |
| SVE-1065 E2 Pre Cat B | | 10/30/09 | 1.50 | 0.36 | 12.50 | 1.19 | 85 |
| SVE-1065 E2 Pre Cat B | | 11/11/09 | 5.5 | 0.64 | 11.32 | 2.37 | 736 |
| SVE-1065 E2 Pre Cat B | | 12/30/09 | | 0.86 | 10.72 | 2.76 | 1,253 |
| SVE-1065 E2 Pre Cat B | | 1/15/10 | 5.0 | 0.49 | 11.60 | 1.95 | 257 |
| SVE-1065 E2 Pre Cat B | | 2/18/10 | 4.0 | 0.42 | 11.74 | 2.20 | 160 |
| SVE-1065 E2 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1065 E2 Pre Cat B | | 5/14/10 | 5.5 | 0.24 | 7.52 | 10.17 | 63 |
| SVE-1065 E2 Pre Cat B | | 6/29/10 | 9.0 | 0.63 | 10.54 | 3.56 | 780 |
| SVE-1065 E2 Post Cat | | 10/24/08 | 5.00 | 0.05 | 13.62 | 1.28 | 64 |
| SVE-1065 E2 Post Cat | | 11/25/08 | 6.00 | 0.02 | 9.92 | -- | 141 |
| SVE-1065 E2 Post Cat | | 1/29/09 | 2.10 | 0.10 | 9.88 | 4.73 | 244 |
| SVE-1065 E2 Post Cat | | 2/18/09 | 3.20 | 0.11 | 9.38 | 5.63 | 294 |
| SVE-1065 E2 Post Cat | | 3/24/09 | 4.0 | 0.20 | 8.86 | 6.37 | 83 |
| SVE-1065 E2 Post Cat | | 3/31/09 | -- | 0.21 | 8.52 | 7.01 | 87 |
| SVE-1065 E2 Post Cat | | 4/28/09 | -- | 0.38 | 11.98 | 0.76 | 132 |
| SVE-1065 E2 Post Cat | | 5/11/09 | 4 | 0.12 | 5.04 | 13.03 | 46 |
| SVE-1065 E2 Post Cat | | 6/23/09 | -- | 0.54 | 11.52 | 1.03 | 420 |
| SVE-1065 E2 Post Cat | | 7/16/09 | 2.00 | 0.34 | 12.12 | 0.75 | 86 |
| SVE-1065 E2 Post Cat | | 8/21/09 | 1.2 | 0.65 | 10.96 | 2.00 | 677 |
| SVE-1065 E2 Post Cat | | 9/15/09 | Engine not operating | | | | |
| SVE-1065 E2 Post Cat | | 10/30/09 | 0.62 | 0.38 | 12.18 | 1.66 | 107 |
| SVE-1065 E2 Post Cat | | 11/11/09 | 1.2 | 0.66 | 11.22 | 2.47 | 686 |
| SVE-1065 E2 Post Cat | | 12/30/09 | | 0.93 | 10.64 | 2.79 | 1,430 |
| SVE-1065 E2 Post Cat | | 1/15/10 | 3.0 | 0.51 | 11.70 | 1.66 | 299 |
| SVE-1065 E2 Post Cat | | 2/18/10 | 1.5 | 0.49 | 12.10 | 1.50 | 162 |
| SVE-1065 E2 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1065 E2 Post Cat | | 5/14/10 | 0.32 | 0.24 | 7.16 | 10.34 | 75 |
| SVE-1065 E2 Post Cat | | 6/29/10 | 1.2 | 0.57 | 11.70 | 1.61 | 589 |
| SVE-1068 Vapor Treatment Influent | | 3/31/09 | -- | 0.00 | 3.40 | 10.24 | 46,890 |
| SVE-1068 Vapor Treatment Influent | | 5/12/09 | 16.5 | 0.00 | 1.46 | 16.36 | 17,982 |
| SVE-1068 Vapor Treatment Influent | | 6/23/09 | -- | 0.11 | 2.46 | 13.52 | 25,020 |
| SVE-1068 Vapor Treatment Influent | | 7/16/09 | -15.00 | 0.02 | 2.74 | 12.58 | 25,920 |
| SVE-1068 Vapor Treatment Influent | | 8/21/09 | -20.0 | 0.01 | 2.50 | 13.20 | 25,830 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1068 Vapor Treatment Influent | | 9/15/09 | -15.0 | 0.02 | 2.48 | 13.52 | 22,860 |
| SVE-1068 Vapor Treatment Influent | | 10/30/09 | -18.00 | 0.01 | 2.28 | 14.16 | 27,450 |
| SVE-1068 Vapor Treatment Influent | | 11/11/09 | -19.1 | 0.02 | 2.42 | 13.54 | 22,050 |
| SVE-1068 Vapor Treatment Influent | | 12/30/09 | | 0.00 | 2.30 | 14.06 | 19,530 |
| SVE-1068 Vapor Treatment Influent | | 1/15/10 | -7.0 | 0.00 | 0.56 | 19.63 | 3,970 |
| SVE-1068 Vapor Treatment Influent | | 2/19/10 | -9.0 | 0.00 | 2.10 | 14.37 | 21,060 |
| SVE-1068 Vapor Treatment Influent | | 3/15/10 | System not operating | | | | |
| SVE-1068 Vapor Treatment Influent | | 5/14/10 | -27.0 | 0 | 1.06 | 18.13 | 13,806 |
| SVE-1068 Vapor Treatment Influent | | 6/29/10 | -27.0 | 0.01 | 1.74 | 15.93 | 15,723 |
| SVE-1068 E1 Pre Cat A | | 3/31/09 | -- | 0.15 | 6.56 | 10.27 | 53 |
| SVE-1068 E1 Pre Cat A | | 5/12/09 | 11 | 0.22 | 8.44 | 5.88 | 66 |
| SVE-1068 E1 Pre Cat A | | 6/23/09 | -- | 0.36 | 10.82 | 1.36 | 296 |
| SVE-1068 E1 Pre Cat A | | 7/16/09 | 20.50 | 0.42 | 10.52 | 1.17 | 306 |
| SVE-1068 E1 Pre Cat A | | 8/21/09 | 18.5 | 0.50 | 9.96 | 2.25 | 548 |
| SVE-1068 E1 Pre Cat A | | 9/15/09 | 11.0 | 0.28 | 11.04 | 1.63 | 111 |
| SVE-1068 E1 Pre Cat A | | 10/30/09 | 8.00 | 0.98 | 9.44 | 3.36 | 2,070 |
| SVE-1068 E1 Pre Cat A | | 11/11/09 | 9.0 | 1.03 | 9.24 | 3.36 | 1,869 |
| SVE-1068 E1 Pre Cat A | | 12/30/09 | | 0.28 | 10.22 | 5.47 | 31 |
| SVE-1068 E1 Pre Cat A | | 1/15/10 | 3.5 | 0.34 | 11.46 | 3.19 | 48 |
| SVE-1068 E1 Pre Cat A | | 2/19/10 | Engine not operating | | | | |
| SVE-1068 E1 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1068 E1 Pre Cat A | | 5/14/10 | 8.0 | 0.42 | 5.8 | 10.71 | 837 |
| SVE-1068 E1 Pre Cat A | | 6/29/10 | 7.0 | 0.97 | 8.90 | 3.72 | 2290 |
| SVE-1068 E1 Pre Cat B | | 3/31/09 | -- | 0.28 | 9.52 | 4.97 | 39 |
| SVE-1068 E1 Pre Cat B | | 5/12/09 | 9 | 0.26 | 9.84 | 3.26 | 83 |
| SVE-1068 E1 Pre Cat B | | 6/23/09 | -- | 0.41 | 11.46 | 1.37 | 433 |
| SVE-1068 E1 Pre Cat B | | 7/16/09 | 18.00 | 0.40 | 10.44 | 1.34 | 488 |
| SVE-1068 E1 Pre Cat B | | 8/21/09 | 14 | 0.55 | 9.96 | 2.16 | 837 |
| SVE-1068 E1 Pre Cat B | | 9/15/09 | 11.0 | 0.28 | 11.12 | 1.43 | 102 |
| SVE-1068 E1 Pre Cat B | | 10/30/09 | 8.00 | 0.94 | 8.96 | 4.08 | 2,190 |
| SVE-1068 E1 Pre Cat B | | 11/11/09 | 7.0 | 1.06 | 9.34 | 3.18 | 1,456 |
| SVE-1068 E1 Pre Cat B | | 12/30/09 | | 0.25 | 10.30 | 5.25 | 34 |
| SVE-1068 E1 Pre Cat B | | 1/15/10 | 3.0 | 0.25 | 9.06 | 7.04 | 52 |
| SVE-1068 E1 Pre Cat B | | 2/19/10 | Engine not operating | | | | |
| SVE-1068 E1 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1068 E1 Pre Cat B | | 5/14/10 | 9.0 | 0.48 | 6.62 | 8.9 | 1,017 |
| SVE-1068 E1 Pre Cat B | | 6/29/10 | 7.5 | 0.99 | 9.36 | 3.08 | 1077 |
| SVE-1068 E1 Post Cat | | 3/31/09 | -- | 0.25 | 10.28 | 3.56 | 34 |
| SVE-1068 E1 Post Cat | | 5/12/09 | 1.2 | 0.09 | 9.7 | 3.80 | 57 |
| SVE-1068 E1 Post Cat | | 6/23/09 | -- | 0.10 | 11.08 | 0.78 | 238 |
| SVE-1068 E1 Post Cat | | 7/16/09 | 2.90 | 0.07 | 11.10 | 0.65 | 250 |
| SVE-1068 E1 Post Cat | | 8/21/09 | 2 | 0.19 | 10.20 | 1.01 | 520 |
| SVE-1068 E1 Post Cat | | 9/15/09 | 0.80 | 0.26 | 11.28 | 0.99 | 94 |
| SVE-1068 E1 Post Cat | | 10/30/09 | 0.90 | 0.74 | 9.74 | 2.86 | 1,072 |
| SVE-1068 E1 Post Cat | | 11/11/09 | 0.84 | 1.06 | 9.86 | 2.16 | 1,661 |
| SVE-1068 E1 Post Cat | | 12/30/09 | | 0.32 | 12.76 | 1.39 | 38 |
| SVE-1068 E1 Post Cat | | 1/15/10 | 0.6 | 0.38 | 12.66 | 1.32 | 66 |
| SVE-1068 E1 Post Cat | | 2/19/10 | Engine not operating | | | | |
| SVE-1068 E1 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1068 E1 Post Cat | | 5/14/10 | 1.5 | 0.13 | 4.54 | 13.3 | 530 |
| SVE-1068 E1 Post Cat | | 6/29/10 | 2.0 | 0.82 | 9.54 | 3.28 | 1610 |
| SVE-1068 E2 Pre Cat A | | 3/31/09 | -- | 0.11 | 3.70 | 14.88 | 30 |
| SVE-1068 E2 Pre Cat A | | 5/12/09 | 11 | 0.27 | 8.86 | 1.92 | 98 |
| SVE-1068 E2 Pre Cat A | | 6/23/09 | -- | 0.37 | 11.06 | 1.01 | 189 |
| SVE-1068 E2 Pre Cat A | | 7/16/09 | -- | -- | -- | -- | -- |
| SVE-1068 E2 Pre Cat A | | 8/21/09 | 9 | 0.28 | 11.36 | 1.40 | 67 |
| SVE-1068 E2 Pre Cat A | | 9/15/09 | 9.0 | 0.25 | 11.30 | 1.00 | 89 |
| SVE-1068 E2 Pre Cat A | | 10/30/09 | 7.00 | 0.65 | 10.84 | 1.72 | 464 |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1068 E2 Pre Cat A | | 11/11/09 | 8.0 | 0.74 | 9.86 | 2.90 | 938 |
| SVE-1068 E2 Pre Cat A | | 12/30/09 | | 0.63 | 9.98 | 2.60 | 688 |
| SVE-1068 E2 Pre Cat A | | 1/15/10 | 4.0 | 0.32 | 10.00 | 5.60 | 30 |
| SVE-1068 E2 Pre Cat A | | 2/19/10 | 10 | 0.97 | 9.34 | 3.65 | 1,572 |
| SVE-1068 E2 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1068 E2 Pre Cat A | | 5/14/10 | 9.0 | 0.61 | 5.32 | 11.22 | 1,643 |
| SVE-1068 E2 Pre Cat A | | 6/29/10 | 9.0 | 0.77 | 9.40 | 3.27 | 1596 |
| SVE-1068 E2 Pre Cat B | | 3/31/09 | -- | 0.30 | 8.82 | 7.09 | 68 |
| SVE-1068 E2 Pre Cat B | | 5/12/09 | 10 | 0.27 | 9.4 | 3.95 | 94 |
| SVE-1068 E2 Pre Cat B | | 6/23/09 | -- | 0.34 | 11.46 | 1.08 | 230 |
| SVE-1068 E2 Pre Cat B | | 7/16/09 | -- | -- | -- | -- | -- |
| SVE-1068 E2 Pre Cat B | | 8/21/09 | 9 | 0.29 | 11.66 | 1.03 | 66 |
| SVE-1068 E2 Pre Cat B | | 9/15/09 | 8.0 | 0.24 | 11.10 | 1.51 | 82 |
| SVE-1068 E2 Pre Cat B | | 10/30/09 | 7.00 | 0.68 | 10.18 | 2.73 | 772 |
| SVE-1068 E2 Pre Cat B | | 11/11/09 | 7.5 | 0.71 | 10.36 | 2.08 | 672 |
| SVE-1068 E2 Pre Cat B | | 12/30/09 | | 0.67 | 10.16 | 2.34 | 673 |
| SVE-1068 E2 Pre Cat B | | 1/15/10 | 3.0 | 0.29 | 9.16 | 7.00 | 58 |
| SVE-1068 E2 Pre Cat B | | 2/19/10 | 10 | 0.98 | 9.66 | 3.16 | 1,084 |
| SVE-1068 E2 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1068 E2 Pre Cat B | | 5/14/10 | 9.0 | 0.47 | 3.3 | 15.2 | 662 |
| SVE-1068 E2 Pre Cat B | | 6/29/10 | 8.5 | 0.85 | 9.26 | 3.36 | 1586 |
| SVE-1068 E2 Post Cat | | 3/31/09 | -- | 0.28 | 8.94 | 5.72 | 57 |
| SVE-1068 E2 Post Cat | | 5/12/09 | 1.2 | 0.18 | 10.14 | 3.01 | 74 |
| SVE-1068 E2 Post Cat | | 6/23/09 | -- | 0.16 | 0.60 | 0.60 | 123 |
| SVE-1068 E2 Post Cat | | 7/16/09 | -- | -- | -- | -- | -- |
| SVE-1068 E2 Post Cat | | 8/21/09 | 0.7 | 0.25 | 11.60 | 1.02 | 58 |
| SVE-1068 E2 Post Cat | | 9/15/09 | 1.1 | 0.25 | 11.14 | 1.55 | 64 |
| SVE-1068 E2 Post Cat | | 10/30/09 | 0.70 | 0.58 | 11.08 | 1.42 | 535 |
| SVE-1068 E2 Post Cat | | 11/11/09 | 0.80 | 0.70 | 10.62 | 1.60 | 696 |
| SVE-1068 E2 Post Cat | | 12/30/09 | | 0.59 | 10.50 | 1.78 | 582 |
| SVE-1068 E2 Post Cat | | 1/15/10 | 1.5 | 0.43 | 12.76 | 1.18 | 58 |
| SVE-1068 E2 Post Cat | | 2/19/10 | 1.1 | 0.26 | 10.70 | 2.19 | 1,053 |
| SVE-1068 E2 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1068 E2 Post Cat | | 5/14/10 | 2.0 | 0.39 | 6.16 | 10.16 | 1,241 |
| SVE-1068 E2 Post Cat | | 6/29/10 | 2.0 | 0.36 | 10.50 | 1.80 | 1408 |
| SVE-1066 Vapor Treatment Influent | | 4/28/09 | -- | 0.00 | 6.56 | 6.09 | 71,010 |
| SVE-1066 Vapor Treatment Influent | | 5/11/09 | -10 | 0.00 | 6.06 | 8.3 | 69,840 |
| SVE-1066 Vapor Treatment Influent | | 6/23/09 | -- | 0.00 | 5.34 | 9.36 | 60,210 |
| SVE-1066 Vapor Treatment Influent | | 7/16/09 | 9.80 | 0.00 | 5.20 | 9.45 | 59,130 |
| SVE-1066 Vapor Treatment Influent | | 8/21/09 | -10.5 | 0.00 | 5.26 | 9.85 | 59,220 |
| SVE-1066 Vapor Treatment Influent | | 9/15/09 | -10.5 | 0.00 | 5.18 | 10.14 | 56,970 |
| SVE-1066 Vapor Treatment Influent | | 10/30/09 | -13.30 | 0.01 | 4.90 | 11.00 | 60,840 |
| SVE-1066 Vapor Treatment Influent | | 11/11/09 | -12.5 | 0.00 | 4.84 | 10.92 | 53,190 |
| SVE-1066 Vapor Treatment Influent | | 12/30/09 | System not operating | | | | |
| SVE-1066 Vapor Treatment Influent | | 1/15/10 | -16.0 | 0.01 | 4.90 | 10.74 | 54,360 |
| SVE-1066 Vapor Treatment Influent | | 2/18/10 | System not operating | | | | |
| SVE-1066 Vapor Treatment Influent | | 3/15/10 | System not operating | | | | |
| SVE-1066 Vapor Treatment Influent | | 5/14/10 | System not operating | | | | |
| SVE-1066 Vapor Treatment Influent | | 6/29/10 | -12.0 | 0.00 | 4.98 | 10.70 | 45,540 |
| SVE-1066 E1 Pre Cat A | | 4/28/09 | -- | 0.35 | 12.04 | 1.69 | 27 |
| SVE-1066 E1 Pre Cat A | | 5/11/09 | 11 | 0.08 | 3.66 | 15.71 | 35 |
| SVE-1066 E1 Pre Cat A | | 6/23/09 | -- | 0.35 | 11.94 | 1.36 | 129 |
| SVE-1066 E1 Pre Cat A | | 7/16/09 | 10.00 | 0.34 | 11.64 | 1.62 | 83 |
| SVE-1066 E1 Pre Cat A | | 8/21/09 | 7.00 | 0.30 | 11.68 | 1.86 | 101 |
| SVE-1066 E1 Pre Cat A | | 9/15/09 | 8.5 | 0.37 | 11.82 | 1.66 | 149 |
| SVE-1066 E1 Pre Cat A | | 10/30/09 | 10.00 | 0.34 | 12.46 | 1.02 | 145 |
| SVE-1066 E1 Pre Cat A | | 11/11/09 | 9.0 | 0.26 | 12.52 | 1.17 | 93 |
| SVE-1066 E1 Pre Cat A | | 12/30/09 | System not operating | | | | |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1066 E1 Pre Cat A | | 1/15/10 | 11.0 | 0.36 | 12.04 | 1.27 | 117 |
| SVE-1066 E1 Pre Cat A | | 2/18/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat A | | 5/14/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat A | | 6/29/10 | 7.0 | 0.36 | 10.82 | 2.78 | 122 |
| SVE-1066 E1 Pre Cat B | | 4/28/09 | -- | 0.38 | 12.52 | 0.88 | 48 |
| SVE-1066 E1 Pre Cat B | | 5/11/09 | 10 | 0.32 | 10.46 | 4.68 | 60 |
| SVE-1066 E1 Pre Cat B | | 6/23/09 | -- | 0.35 | 11.66 | 1.82 | 74 |
| SVE-1066 E1 Pre Cat B | | 7/16/09 | 8.00 | 0.34 | 11.68 | 1.59 | 111 |
| SVE-1066 E1 Pre Cat B | | 8/21/09 | 9.0 | 0.28 | 9.44 | 5.35 | 1,892 |
| SVE-1066 E1 Pre Cat B | | 9/15/09 | 7.0 | 0.32 | 11.66 | 2.00 | 334 |
| SVE-1066 E1 Pre Cat B | | 10/30/09 | 9.00 | 0.37 | 9.20 | 6.35 | 3,310 |
| SVE-1066 E1 Pre Cat B | | 11/11/09 | 8.0 | 0.28 | 9.36 | 6.32 | 2,880 |
| SVE-1066 E1 Pre Cat B | | 12/30/09 | System not operating | | | | |
| SVE-1066 E1 Pre Cat B | | 1/15/10 | 9.5 | 0.31 | 8.46 | 7.25 | 3,590 |
| SVE-1066 E1 Pre Cat B | | 2/18/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat B | | 5/14/10 | System not operating | | | | |
| SVE-1066 E1 Pre Cat B | | 6/29/10 | 7.0 | 0.39 | 11.38 | 1.87 | 117 |
| SVE-1066 E1 Post Cat | | 4/28/09 | -- | 0.24 | 12.68 | 0.75 | 24 |
| SVE-1066 E1 Post Cat | | 5/11/09 | 1.5 | 0.37 | 12.1 | 2.01 | 81 |
| SVE-1066 E1 Post Cat | | 6/23/09 | -- | 0.25 | 8.74 | 6.25 | 80 |
| SVE-1066 E1 Post Cat | | 7/16/09 | 1.40 | 0.36 | 12.18 | 0.90 | 87 |
| SVE-1066 E1 Post Cat | | 8/21/09 | 0.08 | 0.05 | 1.86 | 18.06 | 737 |
| SVE-1066 E1 Post Cat | | 9/15/09 | Sample port blocked | | | | |
| SVE-1066 E1 Post Cat | | 10/30/09 | 1.00 | 0.33 | 11.64 | 2.38 | 1,350 |
| SVE-1066 E1 Post Cat | | 11/11/09 | 0.70 | 0.30 | 11.68 | 2.50 | 1,152 |
| SVE-1066 E1 Post Cat | | 12/30/09 | System not operating | | | | |
| SVE-1066 E1 Post Cat | | 1/15/10 | 1.5 | 0.30 | 11.04 | 3.09 | 1,835 |
| SVE-1066 E1 Post Cat | | 2/18/10 | System not operating | | | | |
| SVE-1066 E1 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1066 E1 Post Cat | | 5/14/10 | System not operating | | | | |
| SVE-1066 E1 Post Cat | | 6/29/10 | 1.5 | 0.42 | 11.67 | 1.83 | 105 |
| SVE-1066 E2 Pre Cat A | | 4/28/09 | System not operating | | | | |
| SVE-1066 E2 Pre Cat A | | 5/11/09 | 9 | 0.32 | 10.34 | 4.95 | 73 |
| SVE-1066 E2 Pre Cat A | | 6/23/09 | -- | 0.40 | 11.09 | 2.70 | 826 |
| SVE-1066 E2 Pre Cat A | | 7/16/09 | 8.00 | 0.29 | 11.30 | 2.27 | 106 |
| SVE-1066 E2 Pre Cat A | | 8/21/09 | 13.5 | 0.39 | 11.88 | 1.24 | 409 |
| SVE-1066 E2 Pre Cat A | | 9/15/09 | 14.0 | 0.30 | 11.58 | 2.10 | 261 |
| SVE-1066 E2 Pre Cat A | | 10/30/09 | 22.00 | 0.30 | 11.84 | 1.96 | 1,095 |
| SVE-1066 E2 Pre Cat A | | 11/11/09 | 21.0 | 0.32 | 12.44 | 1.05 | 322 |
| SVE-1066 E2 Pre Cat A | | 12/30/09 | System not operating | | | | |
| SVE-1066 E2 Pre Cat A | | 1/15/10 | 29.0 | 0.47 | 11.72 | 1.64 | 743 |
| SVE-1066 E2 Pre Cat A | | 2/18/10 | System not operating | | | | |
| SVE-1066 E2 Pre Cat A | | 3/15/10 | System not operating | | | | |
| SVE-1066 E2 Pre Cat A | | 5/14/10 | System not operating | | | | |
| SVE-1066 E2 Pre Cat A | | 6/29/10 | 7.0 | 0.32 | 10.92 | 2.62 | 110 |
| SVE-1066 E2 Pre Cat B | | 4/28/09 | gine not running | | | | |
| SVE-1066 E2 Pre Cat B | | 5/11/09 | 11 | 0.37 | 12.24 | 1.53 | 93 |
| SVE-1066 E2 Pre Cat B | | 6/23/09 | -- | 0.43 | 12.04 | 1.17 | 170 |
| SVE-1066 E2 Pre Cat B | | 7/16/09 | 7.50 | 0.31 | 11.68 | 1.70 | 275 |
| SVE-1066 E2 Pre Cat B | | 8/21/09 | 10 | 0.38 | 11.40 | 2.02 | 1,059 |
| SVE-1066 E2 Pre Cat B | | 9/15/09 | 12.0 | 0.36 | 9.94 | 4.81 | 1,922 |
| SVE-1066 E2 Pre Cat B | | 10/30/09 | 24.00 | 0.29 | 12.10 | 1.86 | 270 |
| SVE-1066 E2 Pre Cat B | | 11/11/09 | 23.0 | 0.29 | 11.82 | 2.17 | 1,039 |
| SVE-1066 E2 Pre Cat B | | 12/30/09 | System not operating | | | | |
| SVE-1066 E2 Pre Cat B | | 1/15/10 | 29.0 | 0.45 | 11.84 | 1.55 | 620 |
| SVE-1066 E2 Pre Cat B | | 2/18/10 | System not operating | | | | |

## Table C-1. Soil Vapor Monitoring Historical Data, Bulk Fuels Facility

| Well | Screen Interval (feet bgs) | Sample Date | Pressure (in ft $H_2O$) | CO (percent) | $CO_2$ (percent) | $O_2$ (percent) | HC (ppmv) |
|---|---|---|---|---|---|---|---|
| SVE-1066 E2 Pre Cat B | | 3/15/10 | System not operating | | | | |
| SVE-1066 E2 Pre Cat B | | 5/14/10 | System not operating | | | | |
| SVE-1066 E2 Pre Cat B | | 6/29/10 | 5.0 | 0.32 | 11.18 | 2.30 | 136 |
| SVE-1066 E2 Post Cat | | 4/28/09 | System not operating | | | | |
| SVE-1066 E2 Post Cat | | 5/11/09 | 2 | 0.00 | 0.06 | 21.73 | 215 |
| SVE-1066 E2 Post Cat | | 6/23/09 | -- | 0.45 | 11.76 | 1.58 | 438 |
| SVE-1066 E2 Post Cat | | 7/16/09 | 1.80 | 0.32 | 12.08 | 1.12 | 187 |
| SVE-1066 E2 Post Cat | | 8/21/09 | 1 | 0.41 | 11.64 | 1.75 | 743 |
| SVE-1066 E2 Post Cat | | 9/15/09 | 1.0 | 0.35 | 12.10 | 1.19 | 266 |
| SVE-1066 E2 Post Cat | | 10/30/09 | 1.00 | 0.32 | 12.14 | 1.43 | 558 |
| SVE-1066 E2 Post Cat | | 11/11/09 | 0.90 | 0.32 | 11.78 | 2.23 | 650 |
| SVE-1066 E2 Post Cat | | 12/30/09 | System not operating | | | | |
| SVE-1066 E2 Post Cat | | 1/15/10 | 1.5 | 0.45 | 11.74 | 1.63 | 621 |
| SVE-1066 E2 Post Cat | | 2/18/10 | System not operating | | | | |
| SVE-1066 E2 Post Cat | | 3/15/10 | System not operating | | | | |
| SVE-1066 E2 Post Cat | | 5/14/10 | System not operating | | | | |
| SVE-1066 E2 Post Cat | | 6/29/10 | 1.0 | 0.31 | 11.72 | 1.29 | 124 |
| | | | | | | | |
| Notes: | | | | | | | |
| atm - atmospheric pressure | | | | | | | |
| ppmv - parts per million by volume | | | | | | | |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1061 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/27/09 | 4/27/09 | 7/22/09 | 10/12/09 | 1/13/10 | 4/30/2010 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.27 U | 0.26 U | 0.26 U | 0.26 U | 0.25 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.14 | 0.140 J | 0.31 | 0.064 U | 0.064 U | 14 J |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 0.45 J | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | **4.2 J** | **8.5** | 0.033 | **0.087** | **0.065** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | **- -** |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 0.28 J | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | 1 U | 1 U | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 42.8 | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | **11.4** | **39.5** | 0.38 J | 1 U | 0.64 J |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1061 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/27/09 | 4/27/09 | 7/22/09 | 10/12/09 | 1/13/10 | 4/30/2010 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 0.69 J | 1.7 | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 0.53 J | 1 | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 19.1 | 50.8 | 0.74 J | 0.29 J | 0.16 J |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 1 U | 7.8 | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 2.9 | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 3.4 | 10.7 | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Dichlorobenzene | NA | NA | 10.5U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,4-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.2 U | 10.3 U | 10.2 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.2 U | 10.3 U | 10.2 U |
| | 2,4-Dimethylphenol | NA | NA | 10.5 U | 10.5 U | 4.3 J | 10.2 U | 10.3 U | 10.2 U |
| | 2,4-Dinitrophenol | NA | NA | 62.8 U | 63.2 U | 63.2 U | 61.5 U | 61.8 U | 61.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1061 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/27/09 | 4/27/09 | 7/22/09 | 10/12/09 | 1/13/10 | 4/30/2010 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 2-Chloronaphthalene | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 2-Chlorophenol | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 10.5 U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | 2-Methylphenol | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 2-Nitroaniline | NA | NA | 52.4 U | 52.6 U | 52.6 U | 51.3 U | 51.5 U | 51 U |
| | 2-Nitrophenol | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 20.5 U | 20.6 U | 20.4 U |
| | 3-Nitroaniline | NA | NA | 52.4 U | 52.6 U | 52.6 U | 51.3 U | 51.5 U | 51 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 62.8 U | 63.2 U | 63.2 U | 61.5 U | 61.8 U | 61.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 4-Chloroaniline | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 4-Nitroaniline | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | 4-Nitrophenol | NA | NA | 52.4 U | 52.6 U | 52.6 U | 51.3 U | 51.5 U | 51 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 157 U | 158 U | 158 U | -- | 155 U | 153 U |
| | Benzoic acid | NA | NA | 62.8 U | 63.2 U | 63.2 U | 61.5 U | 63.2 U | 61.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 7 J | 10.5 U | 10.5 U | 10.2 U | 54.7 J | 10.2 U |
| | Butyl benzyl phthalate | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Diethyl phthalate | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Dimethyl phthalate | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Di-n-butyl phthalate | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | Di-n-octyl phthalate | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | Hexachlorobenzene | NA | 1.0 | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Hexachloroethane | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Hexachlorobutadiene | NA | NA | 10.5U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | 10.5U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.9 U | 21 U | 21 U | 20.5 U | 20.6 U | 20.4 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |
| | Pentachlorophenol | NA | 1.0 | 62.8 U | 63.2 U | 63.2 U | 61.5 U | 61.8 U | 61.2 U |
| | Phenol | NA | 5.0 * | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1061 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/27/09 | 4/27/09 | 7/22/09 | 10/12/09 | 1/13/10 | 4/30/2010 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 0.085 J | 0.096 J | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 0.088 J | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.42 U | 0.42 U | 0.41 U | 0.42 U | 0.41 U |
| | Fluorene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.035 J |
| | Naphthalene | NA | 30* [g] | 1 U | 0.13 J | 0.32 J | 1 U | 1 U | 0.083 J |
| | Phenanthrene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U |
| | Pyrene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | | | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | | | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | | | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | | | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | | | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | | | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | | | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | | | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | 47 |
| | Calcuim (dissolved) | | | | | | | | -- |
| | Chromium | 0.043 | 0.05 * | -- | | | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | | | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | | | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | | | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | 0.147 U |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.0439 J | 0.1 U | 0.0136 J | **- -** |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | ***0.015 U*** |
| | Lead (dissolved) | | | | | | | | -- |
| | Magnesium | NA | NA | -- | | | -- | -- | 7.34 |
| | Magnesium (dissolved) | | | | | | | | -- |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | **0.211** |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.0293 | **0.0559** | **0.127** | 0.0282 | 0.0178 | **- -** |
| | Nickel | 0.028 | NA | -- | | | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | 2.46 |
| | Potassium (dissolved) | | | | | | | | -- |
| | Selenium | 0.005 | 0.05 | -- | | | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1061 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/27/09 | 4/27/09 | 7/22/09 | 10/12/09 | 1/13/10 | 4/30/2010 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | | | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | 23.4 |
| | Sodium (dissolved) | | | | | | | | -- |
| | Thallium | 0.002 | 0.002 | -- | | | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | | | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | | | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 13 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.0691 J | 0.067 J | 0.084 J | 0.15 J | 0.1 U | 0.086 J |
| | Sulfate | NA | 250 (s) | 25.6 | 26 | 25.7 | 28.2 | 32.2 | 29.6 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 32 | 158 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 32 | 158 |
| **Field Parameters** [f] | Temperature (degrees C) | | | 18.6 | | | | | -- |
| | pH (standard pH units) | | | 7.48 | | | | | -- |
| | Conductivity (mS/cm) | | | 38 | | | | | -- |
| | Dissolved Oxygen (mg/L) | | | 3.25 | | | | | -- |
| | Turbidity (NTU) | | | 0.95 | | | | | -- |
| | Redox Potential (ORP in mV) | | | -31 | | | | | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1062 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 1/20/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/12/10 | 4/30/2010 |
| | | | | Q109 | DUPQ109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.25 U | 0.25 U | 0.71 J | 0.25 U | 0.26 U | 250 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.081 | 0.081 | 0.098 J | 0.20 | 0.068 | 0.064 U | 22 J |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.0197 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | 1 U | 1 U | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1062 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 1/20/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/12/10 | 4/30/2010 |
| | | | | Q109 | DUPQ109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 2 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Dichlorobenzene | NA | NA | 10.3U | 10.2U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,4-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 10.2 U | 10.2 U | 10.2 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 10.2 U | 10.2 U | 10.2 U |
| | 2,4-Dimethylphenol | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 2,4-Dinitrophenol | NA | NA | 61.2 U | 61.2 U | 63.2 U | 63.2 U | 60.9 U | 61.2 U | 61.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1062 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 1/20/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/12/10 | 4/30/2010 |
| | | | | Q109 | DUPQ109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 2-Chloronaphthalene | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 2-Chlorophenol | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 10.3 U | 10.2 U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | 2-Methylphenol | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 2-Nitroaniline | NA | NA | 51 U | 51 U | 52.6 U | 52.6 U | 50.8 U | 51 U | 51 U |
| | 2-Nitrophenol | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | 20.3 U | 20.4 U | 20.4 U |
| | 3-Nitroaniline | NA | NA | 51 U | 51 U | 52.6 U | 52.6 U | 50.8 U | 51 U | 51 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 61.2 U | 61.2 U | 63.2 U | 63.2 U | 60.9 U | 61.2 U | 61.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 4-Chloroaniline | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 4-Nitroaniline | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | 4-Nitrophenol | NA | NA | 51 UJ | 51 UJ | 52.6 U | 52.6 U | 50.8 U | 51 U | 51 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 153 U | 153 U | 158 U | 158 U | -- | 153 U | 153 U |
| | Benzoic acid | NA | NA | 61.2 U | 61.2 U | 63.2 U | 63.2 U | 60.9 U | 62.5 U | 61.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.2 U | 10.2 U | 10.5 U | 9.8 J | 10.2 U | 10.2 U | 19.4 |
| | Butyl benzyl phthalate | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Diethyl phthalate | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Dimethyl phthalate | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Di-n-butyl phthalate | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | Di-n-octyl phthalate | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | Hexachlorobenzene | NA | 1.0 | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Hexachloroethane | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Hexachlorobutadiene | NA | NA | 10.3U | 10.2U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | 10.3U | 10.2U | 10.5 U | 10.5 U | 1 U | 1 U | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.4 U | 20.4 U | 21 U | 21 U | 20.3 U | 20.4 U | 20.4 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.2 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |
| | Pentachlorophenol | NA | 1.0 | 61.2 U | 61.2 U | 63.2 U | 63.2 U | 60.9 U | 61.2 U | 61.2 U |
| | Phenol | NA | 5.0 * | 10.2 UJ | 10.2 UJ | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1062 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 1/20/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/12/10 | 4/30/2010 |
| | | | | Q109 | DUPQ109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.31 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.41 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| | Fluorene | NA | NA | 0.31 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.038 J |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.31 U | 0.31 U | 1 U | 1 U | 0.31 U | 0.3 U | 0.31 U |
| | Pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | | | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | | | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | | | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | | | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | | | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | | | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | | | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | | | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | 43.6 |
| | Calcuim (dissolved) | | | | | | | | | **- -** |
| | Chromium | 0.043 | 0.05 * | -- | -- | | | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | | | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | | | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | | | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | **- -** |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | | **- -** |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | 6.71 |
| | Magnesium (dissolved) | | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- | 0.0133 |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.00195 J | 0.00195 J | 0.013 | **0.223** | 0.0265 | 0.00908 J | - - |
| | Nickel | 0.028 | NA | -- | -- | | | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | 2.59 |
| | Potassium (dissolved) | | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | | | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1062 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 1/20/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/12/10 | 4/30/2010 |
| | | | | Q109 | DUPQ109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | | | -- | -- | -- |
| | Sodium | NA | NA | 0.294 J | -- | | | -- | -- | 22.8 |
| | Sodium (dissolved) | | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | ***33.4*** | -- | | | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | | | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | | | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 15.4 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.294 J | 0.294 J | 0.26 J | 10 U | 0.17 J | 0.3309 | 0.42 J |
| | Sulfate | NA | 250 (s) | 33.4 | 33.4 | 34.3 | 39.2 | 33.3 | 36.6 | 37.2 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 126 | 130 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 126 | 130 |
| **Field Parameters** [f] | Temperature (degrees C) | | | 18.2 | 18.2 | | | | | -- |
| | pH (standard pH units) | | | 8.05 | 8.05 | | | | | -- |
| | Conductivity (mS/cm) | | | 0.432 | 0.432 | | | | | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | | | | | -- |
| | Turbidity (NTU) | | | 0.64 | 0.64 | | | | | -- |
| | Redox Potential (ORP in mV) | | | 3 | 3 | | | | | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1063 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | -- | 7/27/09 | 7/27/09 | 10/19/09 | 1/13/10 | 5/3/2010 |
| | | | | Q109 | Q209 | Q309 | Q309Dup | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.26 U | -- | 0.084 J | 0.081 J | 0.27 U | 0.25 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.06 U | -- | 0.088 | 0.088 | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | -- | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | -- | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | -- | 0.02 U | 0.02 U | 0.0198 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 1 U | -- | 1 U | 1 U | 1 U | 1 U | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | -- | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | 1 U | 1 U | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | -- | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1063 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | -- | 7/27/09 | 7/27/09 | 10/19/09 | 1/13/10 | 5/3/2010 |
| | | | | Q109 | Q209 | Q309 | Q309Dup | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | -- | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | -- | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | 1 U | -- | 1 U | 1 U | 1 U | 1 U | -- |
| | n-Butylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | -- | 40.5 | 40.2 | 0.29 J | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | -- | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | -- | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | -- | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 9.5 U | 10.4 U | 10.4 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 9.5 U | 10.4 U | 10.4 U |
| | 2,4-Dimethylphenol | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 2,4-Dinitrophenol | NA | NA | 61.8 U | -- | 63.2 U | 63.2 U | 57.1 U | 62.2 U | 62.5 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1063 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | -- | 7/27/09 | 7/27/09 | 10/19/09 | 1/13/10 | 5/3/2010 |
| | | | | Q109 | Q209 | Q309 | Q309Dup | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 2-Chloronaphthalene | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 2-Chlorophenol | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 2-Nitroaniline | NA | NA | 51.5 U | -- | 52.6 U | 52.6 U | 47.6 U | 51.8 U | 52.1 U |
| | 2-Nitrophenol | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 3,4-Methylphenol | NA | NA | | -- | -- | -- | 19 U | 20.7 U | 20.8 U |
| | 3-Nitroaniline | NA | NA | 51.5 U | -- | 52.6 U | 52.6 U | 47.6 U | 51.8 U | 52.1 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 61.8 U | -- | 63.2 U | 63.2 U | 57.1 U | 62.2 U | 62.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 4-Chloroaniline | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 4-Nitroaniline | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | 4-Nitrophenol | NA | NA | 51.5 UJ | -- | 52.6 U | 52.6 U | 47.6 U | 51.8 U | 52.1 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 155 U | -- | 158 U | 158 U | R | 155 U | 156 U |
| | Benzoic acid | NA | NA | 61.8 U | -- | 63.2 U | 63.2 U | 57.1 U | 60.9 U | 62.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 15.2 J | 10.4 U |
| | Butyl benzyl phthalate | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Diethyl phthalate | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Dimethyl phthalate | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Di-n-butyl phthalate | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | Di-n-octyl phthalate | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 4.5 J |
| | Hexachlorobenzene | NA | 1.0 | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Hexachloroethane | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.6 U | -- | 21 U | 21 U | 19 U | 20.7 U | 20.8 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.3 U | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |
| | Pentachlorophenol | NA | 1.0 | 61.8 U | -- | 63.2 U | 63.2 U | 57.1 U | 62.2 U | 62.5 U |
| | Phenol | NA | 5.0 * | 10.3 UJ | -- | 10.5 U | 10.5 U | 9.5 U | 10.4 U | 10.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1063 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | -- | 7/27/09 | 7/27/09 | 10/19/09 | 1/13/10 | 5/3/2010 |
| | | | | Q109 | Q209 | Q309 | Q309Dup | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.31 U | -- | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | -- | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | -- | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.41 U | -- | 0.42 U | 0.42 U | 0.42 U | 0.41 U | 0.42 U |
| | Fluorene | NA | NA | 0.31 U | -- | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1 U | -- | 0.17 J | 0.18 J | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.31 U | -- | 1 U | 1 U | 0.32 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | 0.2 U | -- | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | - - |
| | Calcuim (dissolved) | | | | | | | | | 98.6 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | | | -- | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | -- | 0.164 | 0.16 | 0.1 U | 0.0061 J | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | - - |
| | Lead (dissolved) | | | | | | | | | 0.015 U |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | - - |
| | Magnesium (dissolved) | | | | | | | | | 15.6 |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.01 U | -- | 0.0033 J | 0.00326 J | 0.01 U | 0.01 U | 0.000352 J |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | - - |
| | Potassium (dissolved) | | | | | | | | | 4.06 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1063 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | -- | 7/27/09 | 7/27/09 | 10/19/09 | 1/13/10 | 5/3/2010 |
| | | | | Q109 | Q209 | Q309 | Q309Dup | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- | - - |
| | Sodium (dissolved) | | | | | | | | | 48.4 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 97.9 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 3.13 J | -- | 3.2 J | 3.2 J | 3.15 | 3.6285 | 3.1 J |
| | Sulfate | NA | 250 (s) | 169 | -- | 173 | 174 | 185 | 187 | 166 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 23 | 94 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | | -- | -- | -- | -- | 23 | 94 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1064 | | | | | | | Well KAFB 1065 | Well KAFB 1066 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/21/09 | 4/29/09 | 7/23/09 | 10/12/09 | 1/13/10 | 1/13/10 | 5/5/2010 | 6/16/10 | 6/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 | | |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.26 U | 0.053 J | 0.26 U | 0.26 U | 0.26 U | 260 U | 464000 | **38200** |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.086 | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 64 U | 76100 | **31200** |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 24.4 U | 61 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 30.4 U | 76 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 562 J | 154 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.0198 U | **120 J** | **149** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 241 J | 56.5 |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U | 6 U | 282 J | 300 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 51.4 J |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 1410 J | 276 J |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **2920** | **2400** |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1064 | | | | | | | Well KAFB 1065 | Well KAFB 1066 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/21/09 | 4/29/09 | 7/23/09 | 10/12/09 | 1/13/10 | 1/13/10 | 5/5/2010 | 6/16/10 | 6/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 | | |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 21.2 U | 53 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 474 J | 568 |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 20.4 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 87.2 J | 48.1 J |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 250 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | **67.1 J** |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 88.3 J | 16.7 J |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 122 J | 73.9 |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 59.1 J | 15.8 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **6290** | **9070** |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 0.23 J | 1 U | 0.21 J | 20 U | 50 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 100 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 50 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 1 U | 1 U | 2 U | 2 U | 2 U | 2 U | 1710 J | 1200 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 732 J | 564 |
| | Xylenes, Total | NA | 620 * | 2 U | 1 U | 1 U | 3 U | 3 U | 3 U | 3 U | **2440 J** | **1760** |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | **- -** | **- -** |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | -- | -- |
| | 2,4,6-Trichlorophenol | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 2,4-Dimethylphenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 2,4-Dinitrophenol | NA | NA | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 61.8 U | 61.8 U | 61.5 U | 6120 U | 122 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1064 | | | | | | | Well KAFB 1065 | Well KAFB 1066 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/21/09 | 4/29/09 | 7/23/09 | 10/12/09 | 1/13/10 | 1/13/10 | 5/5/2010 | 6/16/10 | 6/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 | | |
| | 2,6-Dinitrotoluene | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | 2-Chloronaphthalene | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 2-Chlorophenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1090 | 20.4 U |
| | 2-Nitroaniline | NA | NA | 51.5 U | 52.6 U | 52.6 U | 51.5 U | 51.5 U | 51.5 U | 51.3 U | 5100 U | 102 U |
| | 2-Nitrophenol | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 R |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 1300 J | 40.8 U |
| | 3-Nitroaniline | NA | NA | 51.5 U | 52.6 U | 52.6 U | 51.5 U | 51.5 U | 51.5 U | 51.3 U | 5100 U | 102 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 61.8 U | 63.2 U | 63.2 U | 3.9 J | 61.8 U | 61.8 U | 61.5 U | 6120 U | 122 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| **SVOCs** (ug/L) | 4-Chloroaniline | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| Method 8270 | 4-Chlorophenyl phenyl ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 4-Nitroaniline | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | 4-Nitrophenol | NA | NA | 51.5 UJ | 52.6 U | 52.6 U | 51.5 U | 51.5 U | 51.5 U | 51.3 U | 5100 U | 102 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 155 U | 158 U | 158 U | R | 155 U | 155 U | 154 U | 15300 U | 306 R |
| | Benzoic acid | NA | NA | 61.8 U | 63.2 U | 63.2 U | 61.8 U | R | R | 61.5 U | 6120 U | 122 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.3 U | 8.3 J | 10.5 U | 10.3 U | 9.2 J | 8.4 J | 14 | 1020 U | 20.4 U |
| | Butyl benzyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Diethyl phthalate | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Dimethyl phthalate | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Di-n-butyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | Di-n-octyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 4.5 J |
| | Hexachlorobenzene | NA | 1.0 | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Hexachloroethane | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.6 U | 21 U | 21 U | 20.6 U | 20.6 U | 20.6 U | 20.5 U | 2040 U | 40.8 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | 1020 U | 20.4 U |
| | Pentachlorophenol | NA | 1.0 | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 61.8 U | 61.8 U | 61.5 U | 6120 U | 122 U |
| | Phenol | NA | 5.0 * | 10.3 UJ | 10.5 U | 10.5 U | 10.3 U | 10.3 U | 10.3 U | 10.2 U | **605 J** | 20.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1064 | | | | | | | Well KAFB 1065 | Well KAFB 1066 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/21/09 | 4/29/09 | 7/23/09 | 10/12/09 | 1/13/10 | 1/13/10 | 5/5/2010 | 6/16/10 | 6/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 | | |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 0.94 U | 1 U | **29000** | **71.4** |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 0.94 U | 1 U | **31700** | **78** |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.94 U | 1 U | 16.8 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.94 U | 1 U | 16.8 U | 1.1 U |
| | Anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.28 U | 0.32 U | 5 U | 0.33 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.036 J | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.14 U | 0.16 U | 2.5 U | 0.16 U |
| | Chrysene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 35 | 0.22 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.28 U | 0.32 U | 5 U | 0.33 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.38 U | 0.42 U | 6.7 U | 0.44 U |
| | Fluorene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.28 U | 0.32 U | 5 U | 0.33 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.028 J | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **440 J** | **142 J** |
| | Phenanthrene | NA | NA | 0.31 U | 1 U | 1 U | 0.31 U | 0.31 U | 0.28 U | 0.32 U | 5 U | 0.33 U |
| | Pyrene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.21 U | 3.4 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Calcuim (dissolved) | | | | | | | | | 55.8 | 128 | 47.8 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.00981 J | 0.1 U | 0.0914 J | 0.0621 J |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Lead (dissolved) | | | | | | | | | 0.015 U | 0.00531 J | 0.015 U |
| | Magnesium | NA | NA | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Magnesium (dissolved) | | | | | | | | | 8.87 | 19.4 | 7.47 |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.01 U | **0.645 J** | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | **2.56** | **0.469** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Potassium (dissolved) | | | | | | | | | 3 | 4.87 | 2.58 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1064 | | | | | | | Well KAFB 1065 | Well KAFB 1066 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/21/09 | 4/29/09 | 7/23/09 | 10/12/09 | 1/13/10 | 1/13/10 | 5/5/2010 | 6/16/10 | 6/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 | | |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | -- | **- -** | **- -** | **- -** |
| | Sodium (dissolved) | | | | | | | | | 26.4 | 64.4 | 27.6 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 35.1 | 133 | 12.6 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.91 J | 0.97 J | 0.95 J | 1.3 J | 2.1529 | 2.1811 | 2 J | 1 U | .056 J |
| | Sulfate | NA | 250 (s) | 46.2 | 47.8 | 47.3 | 60.1 | 77.3 | 79.3 | 77.4 | 173 | 22.4 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 29 | 27 | 106 | 160 | 158 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 0.5 U | 0 | 0 | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 29 | 27 | 106 | 160 | 158 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1067 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/23/08 | 7/8/08 | 10/29/08 | 1/27/09 | 1/27/09 | 4/28/09 | 7/22/09 | 10/9/09 | 1/11/10 |
| | | | | Q208 | Q308 | Q408 | Q109 | Q109 DUP | Q209 | Q309 | Q409 | Q110 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | -- | 0.25 U | 0.28 U | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.27 J | 0.34 | 0.056 | 0.033 J | 0.033 J | 0.068 J | 0.17 | 0.027 J | 0.064 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.18 J |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1 U | 1 U | 1 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | 0.02 U | 1 U | 1 U | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 0.97 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 UJ | 6 U | 6 U | 6 U | 6 U | 1 U | 1 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 UJ | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/23/08 | 7/8/08 | 10/29/08 | 1/27/09 | 1/27/09 | 4/28/09 | 7/22/09 | 10/9/09 | 1/11/10 |
| | | | | Q208 | Q308 | Q408 | Q109 | Q109 DUP | Q209 | Q309 | Q409 | Q110 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1 U | 1 U | 1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 1.6 J |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 0.39 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 0.27 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.3 J |
| | Toluene | NA | 750 * | 43 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.31 J |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.41 J |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 2 U | 2 U | 3 U | 3 U | 1 U | 1 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | 10 U | -- | -- | -- | -- | 10.2 U | 10.3 U |
| | 1,3-Dinitrobenzene | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | 10 U | 10 U | -- | -- | -- | -- | 10.2 U | 10.3 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 60 U | 60 U | 63.2 U | 58.2 U | 63.2 U | 63.2 U | 60.9 U | 61.8 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1067 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/23/08 | 7/8/08 | 10/29/08 | 1/27/09 | 1/27/09 | 4/28/09 | 7/22/09 | 10/9/09 | 1/11/10 |
| | | | | Q208 | Q308 | Q408 | Q109 | Q109 DUP | Q209 | Q309 | Q409 | Q110 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 52.6 U | 48.5 U | 52.6 U | 52.6 U | 50.8 U | 51.5 U |
| | 2-Nitrophenol | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 3,4-Methylphenol | NA | NA | 20 U | 20 U | 20 U | | | -- | -- | 20.3 U | 20.6 U |
| | 3-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 52.6 U | 48.5 U | 52.6 U | 52.6 U | 50.8 U | 51.5 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | 60 U | 60 U | 63.2 U | 58.2 U | 63.2 U | 63.2 U | 60.9 U | 61.8 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Nitrophenol | NA | NA | 50 U | 50 U | 50 U | 52.6 U | 48.5 U | 52.6 U | 52.6 U | 50.8 U | 51.5 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 U | 150 U | 150 U | 158 U | 146 U | 158 U | 158 U | R | 155 U |
| | Benzoic acid | NA | NA | 60 U | 60 U | 60 U | 63.2 U | 58.2 U | 63.2 U | 63.2 U | 60.9 U | 61.8 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 0.76 J | 10 U | 10 U | 10.5 U | 9.7 U | 12 | 12 | 10.2 U | 10.3 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Diethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Dimethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10 UJ | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20 U | 20 U | 21 U | 19.4 U | 21 U | 21 U | 20.3 U | 20.6 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 60 U | 60 U | 63.2 U | 58.2 U | 63.2 U | 63.2 U | 60.9 U | 61.8 U |
| | Phenol | NA | 5.0 * | 3.5 J | 10 U | 10 U | 10.5 U | 9.7 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/23/08 | 7/8/08 | 10/29/08 | 1/27/09 | 1/27/09 | 4/28/09 | 7/22/09 | 10/9/09 | 1/11/10 |
| | | | | Q208 | Q308 | Q408 | Q109 | Q109 DUP | Q209 | Q309 | Q409 | Q110 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.1 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.92 | 0.3 U | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.4 U | 0.4 U | 0.44 U | 0.42 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U |
| | Fluorene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.33 U | 0.32 U | 1 U | 1 U | 0.3 U | 0.31 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- |
| | Calcuim (dissolved) | | | | | | | | | | | |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | | | -- | -- |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | -- | 0.1 U | 0.173 | 0.1 U | 0.00916 J | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | | | -- | -- |
| | Lead (dissolved) | | | | | | | | | | | |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- |
| | Magnesium (dissolved) | | | | | | | | | | | |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | | | -- | -- |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.022 | 0.013 | -- | 0.00144 J | 0.00174 J | **0.559 J** | 0.0019 J | 0.00263 J | 0.01 U |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- |
| | Potassium (dissolved) | | | | | | | | | | | |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/23/08 | 7/8/08 | 10/29/08 | 1/27/09 | 1/27/09 | 4/28/09 | 7/22/09 | 10/9/09 | 1/11/10 |
| | | | | Q208 | Q308 | Q408 | Q109 | Q109 DUP | Q209 | Q309 | Q409 | Q110 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- |
| | Sodium (dissolved) | | | | | | | | | | | |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.38 J | 0.27 J | 0.47 J | 0.525 J | 0.52 J | 0.37 J | 0.12 J | 0.49 J | 0.8148 |
| | Sulfate | NA | 250 (s) | -- | -- | -- | 31.7 | 31.6 | 32.2 | 31.6 | 32.9 | 33.5 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 112 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 0.5 U |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 112 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | Well KAFB 1068 | Well KAFB 1069 | | Well KAFB 10610 |
|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 6/21/2010 | 5/6/2010 | 6/16/2010 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 250 U | 66100 | - - | 19200 | 87100 |
| | MRO | NA | NA | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 110 | 22500 | 10500 | 76100 | 449000 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,1-Dichloroethane | NA | 25 * | 0.2 J | 50 U | 10 U | 50 U | 50 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 61 U | 12.2 U | 61 U | 61 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 76 U | 15.2 U | 76 U | 76 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 265 | 81.6 | 333 | 704 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 250 U | 50 U | 250 U | 250 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.0199 U | **258** | **39.6** | **90.3** | **117** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 0.39 J | 96.3 | 26.6 | 123 | 234 |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 250 U | 50 U | 250 U | 250 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 255 J | 24.7 J | 300 U | 604 J |
| | 2-Chlorotoluene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 2-Hexanone | NA | NA | 5 U | 529 | 60.7 | 250 U | 136 J |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 301 | 133 | 250 U | 250 U |
| | Acetone | NA | NA | 10 U | 1420 | 185 | 500 U | 1610 J |
| | Benzene | NA | 5.0 | 1 U | **4900** | **3330** | **4050** | **3600** |
| | Bromobenzene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Bromochloromethane | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Bromodichloromethane | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Bromoform | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Bromomethane | NA | NA | 2 U | 100 U | 20 U | 100 U | 100 U |
| | Carbon disulfide | NA | NA | 2 U | 100 U | 20 U | 100 U | 100 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Chlorobenzene | NA | 100 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Chloroethane | NA | NA | 2 U | 100 U | 20 U | 100 U | 100 U |
| | Chloroform | NA | 100 * | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Chloromethane | NA | NA | 2 U | 100 U | 20 U | 100 U | 100 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | Well KAFB 1068 | Well KAFB 1069 | | Well KAFB 10610 |
|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 6/21/2010 | 5/6/2010 | 6/16/2010 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Dibromomethane | NA | NA | 1.1 U | 53 U | 10.6 U | 53 U | 53 U |
| | Dichlorodifluoromethane | NA | NA | 0.86 J | 100 U | 20 U | 100 U | 100 U |
| | Ethylbenzene | NA | 700 | 1 U | **980** | 416 | **1220** | **1770** |
| | Hexachlorobutadiene | NA | NA | 1 U | 52.6 U | 10 U | 50 U | 50 U |
| | Isopropylbenzene | NA | NA | 1 U | 86.6 | 30.9 | 105 | 190 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 250 U | 50 U | 250 U | 250 U |
| | Methylene chloride | NA | 5.0 | 5 U | **48.3 J** | 50 U | 250 U | 250 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 23 J | 10 U | 24.4 J | 71 |
| | n-Propylbenzene | NA | NA | 1 U | 119 | 24.7 | 131 | 249 |
| | sec-Butylbenzene | NA | NA | 1 U | 22.4 J | 3.6 J | 20.8 J | 54.6 |
| | Styrene | NA | 100 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | tert-Butylbenzene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Tetrachloroethene | NA | 5.0 | 0.32 J | 50 U | 10 U | 50 U | 50 U |
| | Toluene | NA | 750 * | 1 U | **12300** | **6250** | **11900** | **11100** |
| | trans-1,2-DCE | NA | 100 | 1 U | 50 U | 10 U | 50 U | 50 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Trichloroethene | NA | 5.0 | 0.31 J | 50 U | 10 U | 50 U | 50 U |
| | Trichlorofluoromethane | NA | NA | 0.32 J | 100 U | 20 U | 100 U | 100 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 50 U | 10 U | 50 U | 50 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2190 | 828 | 2340 | 3330 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 958 | 486 | 1110 | 1420 |
| | Xylenes, Total | NA | 620 * | 3 U | **3140** | **1310** | **3440** | **4750** |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10.4 U | 20.9 J | - - | 102 U | 562 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.4 U | - - | - - | - - | - - |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 2,4-Dichlorophenol | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 2,4-Dimethylphenol | NA | NA | 10.4 U | 230 | - - | 102 U | 562 U |
| | 2,4-Dinitrophenol | NA | NA | 62.2 U | 316 U | - - | 612 U | 3370 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-1067 | Well KAFB 1068 | Well KAFB 1069 | | Well KAFB 10610 |
|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 6/21/2010 | 5/6/2010 | 6/16/2010 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 2-Chloronaphthalene | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 2-Chlorophenol | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.4 U | 211 | - - | 57.4 J | 562 U |
| | 2-Nitroaniline | NA | NA | 51.8 U | 263 U | - - | 510 U | 2810 U |
| | 2-Nitrophenol | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.7 U | 105 R | - - | 204 U | 1120 U |
| | 3,4-Methylphenol | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 3-Nitroaniline | NA | NA | 51.8 U | 263 U | - - | 510 U | 2810 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 62.2 U | 316 U | - - | 612 U | 3370 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 4-Chloroaniline | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 4-Nitroaniline | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | 4-Nitrophenol | NA | NA | 51.8 U | 263 U | - - | 510 U | 2810 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 155 U | 789 R | - - | 1530 U | 8430 U |
| | Benzoic acid | NA | NA | 62.2 U | 316 U | - - | 612 U | 3370 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 293 J |
| | Bis(2-chloroethyl)ether | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Butyl benzyl phthalate | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Diethyl phthalate | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Dimethyl phthalate | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Di-n-butyl phthalate | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | Di-n-octyl phthalate | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | Hexachlorobenzene | NA | 1.0 | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Hexachloroethane | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.7 U | 105 U | - - | 204 U | 1120 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.4 U | 52.6 U | - - | 102 U | 562 U |
| | Pentachlorophenol | NA | 1.0 | 62.2 U | 316 U | - - | 612 U | 3370 U |
| | Phenol | NA | 5.0 * | 10.4 U | 52.6 U | - - | 102 U | 562 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | Well KAFB 1068 | Well KAFB 1069 | | Well KAFB 10610 |
|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 6/21/2010 | 5/6/2010 | 6/16/2010 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | **84.4** | **- -** | **87.1** | **299** |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | **116** | **- -** | **121** | **385** |
| | Acenaphthene | NA | NA | 1 U | 1.1 U | **- -** | 1.1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1.1 U | **- -** | 1.1 U | 1 U |
| | Anthracene | NA | NA | 0.31 U | 0.32 U | **- -** | 0.33 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.21 U | **- -** | 0.22 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.21 U | **- -** | 0.22 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.055 J | **- -** | 0.22 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.21 U | **- -** | 0.22 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.15 U | 0.16 U | **- -** | 0.16 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | 0.21 U | **- -** | 0.22 U | 0.28 |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.094 J | **- -** | 0.33 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.43 U | **- -** | 0.43 U | 0.41 U |
| | Fluorene | NA | NA | 0.31 U | 0.32 U | **- -** | 0.33 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.032 J | 0.21 U | **- -** | 0.22 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 1 U | **151 J** | **34.3** | **170 J** | **297** |
| | Phenanthrene | NA | NA | 0.31 U | 0.32 U | **- -** | 0.33 U | 0.31 U |
| | Pyrene | NA | NA | 0.2 U | 0.21 U | **- -** | 0.22 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | 56.6 | **- -** | **- -** | **- -** | **- -** |
| | Calcuim (dissolved) | | | **- -** | 52.9 | 67.9 | 61.4 | 57.1 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | 0.1 U | **- -** | **- -** | **- -** | **- -** |
| | Iron (dissolved) | NA | 0.3 (s) | **- -** | 0.183 | **0.909** | 0.161 | 0.1 U |
| | Lead | 0.01 | 0.015 | 0.015 U | **- -** | **- -** | **- -** | **- -** |
| | Lead (dissolved) | | | **- -** | 0.015 U | 0.015 U | 0.00431 J | 0.00574 J |
| | Magnesium | NA | NA | 8.16 | - - | - - | - - | - - |
| | Magnesium (dissolved) | | | - - | 8.27 | 11.2 | 9.67 | 8.16 |
| | Manganese | NA | 0.05 (s) | 0.0365 | - - | - - | - - | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | **- -** | **0.938** | **2.1** | **2.58 J** | **0.543** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | 2.58 | - - | - - | - - | - - |
| | Potassium (dissolved) | | | - - | 2.68 | 3.38 | 3.28 | 2.79 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-1067 | Well KAFB 1068 | Well KAFB 1069 | | Well KAFB 10610 |
|---|---|---|---|---|---|---|---|---|
| | | | | 4/30/10 | 6/21/2010 | 5/6/2010 | 6/16/2010 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 | Q210 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | 27.9 | - - | - - | - - | - - |
| | Sodium (dissolved) | | | - - | 28 | 30.6 | 27.4 | 27.5 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | 11.6 | 13 | 26 | 25.1 | 33.3 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.39 J | 0.052 J | 1 U | 1 U | 1 U |
| | Sulfate | NA | 250 (s) | 32.7 | 28 | 25.3 | 29.8 | 47.8 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | 178 | 172 | 206 | 204 | 122 |
| | Carbonate $CO3^{2-}$ | NA | NA | 0 | 0 | 0 | 0 | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | 178 | 172 | 206 | 204 | 122 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10611 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/27/08 | 10/27/08 | 1/26/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/11/10 | 4/28/10 |
| | | | | Q408 | Q408DUP | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.15 J | 0.18 J | 0.25 U | 0.070 J | 0.120 J | 0.26 U | 0.25 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.052 J | 0.059 J | 0.018 | 0.37 | 0.16 | 0.110 J | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1.3 | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1.4 | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 1 U | 0.03 | 0.03 | 0.018 J | 0.016 J | 0.0196 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.84 J | 0.68 J | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 6 U | 6.1 | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 9.7 J | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 0.21 J | 0.2 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10611 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/27/08 | 10/27/08 | 1/26/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/11/10 | 4/28/10 |
| | | | | Q408 | Q408DUP | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.52 J | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.68 J | 0.92 J | 1 U | 0.36 J |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.33 J | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.28 J | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 0.76 J | 0.71 J | 52.3 | 131 | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 0.34 J | 0.28 J | 2 U | 1 U | 2.2 | 2.4 | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 0.34 J | 0.28 J | 3 U | 1 U | 2.2 J | 2.4 J | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | NS | NS | -- | -- | -- | 10.3 U | 10.2 U | 10.4 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 2,4-Dichlorophenol | NA | NA | NS | NS | -- | -- | -- | 10.3 U | 10.2 U | 10.4 U |
| | 2,4-Dimethylphenol | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 2,4-Dinitrophenol | NA | NA | 64.2 U | 65.9 U | 64.2 U | 63.2 U | 63.2 U | 61.8 U | 61.2 U | 62.5 U |
| | 2,4-Dinitrotoluene | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10611 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/27/08 | 10/27/08 | 1/26/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/11/10 | 4/28/10 |
| | | | | Q408 | Q408DUP | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 2-Chloronaphthalene | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 2-Chlorophenol | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 2-Nitroaniline | NA | NA | 53.5 U | 54.9 U | 53.5 U | 52.6 U | 52.6 U | 51.5 U | 51 U | 52.1 U |
| | 2-Nitrophenol | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | -- | 20.6 U | 20.4 U | 20.8 U |
| | 3-Nitroaniline | NA | NA | 53.5 U | 54.9 U | 53.5 U | 52.6 U | 52.6 U | 51.5 U | 51 U | 52.1 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 64.2 U | 65.9 U | 64.2 U | 63.2 U | 63.2 U | 61.8 U | 61.2 U | 62.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 4-Chloroaniline | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 4-Nitroaniline | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | 4-Nitrophenol | NA | NA | 53.5 U | 54.9 U | 53.5 U | 52.6 U | 52.6 U | 51.5 U | 51 U | 52.1 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 160 U | 165 U | 160 U | 158 U | 158 U | R | 153 U | 156 U |
| | Benzoic acid | NA | NA | 64.2 U | 65.9 U | 64.2 U | 63.2 U | 63.2 U | 61.8 U | 61.2 U | 62.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 6.4 J | 11.5 J | 10.4 U |
| | Butyl benzyl phthalate | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Diethyl phthalate | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Dimethyl phthalate | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Di-n-butyl phthalate | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | Di-n-octyl phthalate | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 12.4 J | 20.8 U |
| | Hexachlorobenzene | NA | 1.0 | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Hexachloroethane | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21.4 U | 22 U | 21.4 U | 21 U | 21 U | 20.6 U | 20.4 U | 20.8 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.7 U | 11 U | 10.7 U | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |
| | Pentachlorophenol | NA | 1.0 | 64.2 U | 65.9 U | 64.2 U | 63.2 U | 63.2 U | 61.8 U | 61.2 U | 62.5 U |
| | Phenol | NA | 5.0 * | 10.7 U | 11 U | 2.6 J | 10.5 U | 10.5 U | 10.3 U | 10.2 U | 10.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10611 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/27/08 | 10/27/08 | 1/26/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/11/10 | 4/28/10 |
| | | | | Q408 | Q408DUP | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1.3 | 1.1 | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.6 | 1.4 | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 0.18 J | 0.15 J | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.098 J |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.36 |
| | Fluoranthene | NA | NA | 0.42 U | 0.42 U | 0.43 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| | Fluorene | NA | NA | 0.28 J | 0.24 J | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 0.38 J | 0.38 J | 1.1 U | 0.12 J | 1 U | 0.05 J | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | | | -- | -- | 38.2 |
| | Calcuim (dissolved) | | | | | | | | | | **- -** |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | **0.774 J** | **1.05 J** | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | **- -** |
| | Lead | 0.01 | 0.015 | -- | -- | -- | | | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | | | **- -** |
| | Magnesium | NA | NA | -- | -- | -- | | | -- | -- | 5.6 |
| | Magnesium (dissolved) | | | | | | | | | | **- -** |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | | | -- | -- | 0.01 U |
| | Manganese (dissolved) | NA | 0.05 (s) | **0.272** | **0.285** | 0.0297 | 0.0185 | **0.226** | 0.0354 | 0.01 U | **- -** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | | | -- | -- | 2.42 J |
| | Potassium (dissolved) | | | | | | | | | | **- -** |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10611 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/27/08 | 10/27/08 | 1/26/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/11/10 | 4/28/10 |
| | | | | Q408 | Q408DUP | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | | | -- | -- | 24.8 |
| | Sodium (dissolved) | | | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | 8.4 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 10 U | 0.018 J | 10 U | 0.14 J | 10 U | 0.15 J | 0.1602 | 1 U |
| | Sulfate | NA | 250 (s) | -- | -- | 28 | 28 | 27.2 | 28.2 | 28.7 | 29.4 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | 88 | 118 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 88 | 118 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10612 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 2/2/09 | 4/23/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/29/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.13 J | 0.16 J | 0.062 J | 0.064 J | 0.26 U | 0.23 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.06 U | 1.7 | 0.480 J | 0.14 | 0.0098 J | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 0.23 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.03 U | 0.02 U | 0.02 U | 0.02 U | 0.0199 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 0.57 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 3.6 | **166** | **56.3** | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10612 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 2/2/09 | 4/23/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/29/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 4.8 | 2.6 | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1.6 | 2.6 | 0.76 J | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 0.76 J | 0.62 J | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 0.38 J | 0.68 J | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 4.3 | 98.7 | 10.9 | 1 U | 0.23 J | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 0.62 J | 10 | 0.29 J | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 0.28 J | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 0.9 J | 15.1 | 0.29 J | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 10.2 U | 10 U | 10.3 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 10.2 U | 10 U | 10.3 U |
| | 2,4-Dimethylphenol | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 2,4-Dinitrophenol | NA | NA | 63.5 U | 61.2 U | 63.2 U | 63.2 U | 61.5 U | 60 U | 61.8 U |
| | 2,4-Dinitrotoluene | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10612 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 2/2/09 | 4/23/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/29/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 2-Chloronaphthalene | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 2-Chlorophenol | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 2-Nitroaniline | NA | NA | 52.9 U | 51 U | 52.6 U | 52.6 U | 51.3 U | 50 U | 51.5 U |
| | 2-Nitrophenol | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | 20.5 U | 20 U | 20.6 U |
| | 3-Nitroaniline | NA | NA | 52.9 U | 51 U | 52.6 U | 52.6 U | 51.3 U | 50 U | 51.5 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.5 U | 61.2 U | 63.2 U | 63.2 U | 61.5 U | 60 U | 61.8 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 4-Chloroaniline | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 4-Nitroaniline | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | 4-Nitrophenol | NA | NA | 52.9 U | 51 U | 52.6 U | 52.6 U | 51.3 U | 50 U | 51.5 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 159 U | 153 U | 158 U | 158 U | R | 150 U | 155 U |
| | Benzoic acid | NA | NA | R | R | 63.2 U | 63.2 U | 61.5 U | 61.2 U | 61.8 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 7.3 J | 10.3 U |
| | Butyl benzyl phthalate | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Diethyl phthalate | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Dimethyl phthalate | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Di-n-butyl phthalate | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | Di-n-octyl phthalate | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | Hexachlorobenzene | NA | 1.0 | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Hexachloroethane | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21.2 U | 20.4 U | 21 U | 21 U | 20.5 U | 20 U | 20.6 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |
| | Pentachlorophenol | NA | 1.0 | 63.5 U | 61.2 U | 63.2 U | 63.2 U | 61.5 U | 60 U | 61.8 U |
| | Phenol | NA | 5.0 * | 10.6 U | 10.2 U | 10.5 U | 10.5 U | 10.2 U | 10 U | 10.3 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10612 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 2/2/09 | 4/23/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/29/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.69 J | 0.037 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 0.96 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 0.1 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.32 U | 0.3 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.15 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.3 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.42 U | 0.41 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| | Fluorene | NA | NA | 0.16 J | 0.3 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 0.23 J | 0.076 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.32 U | 0.3 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.31 U |
| | Pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | 137 |
| | Calcuim (dissolved) | | | | | | | | | **- -** |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.0348 J | 0.171 | 0.0889 J | 0.1 U | 0.0751 J | **- -** |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | | **- -** |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | 22.1 |
| | Magnesium (dissolved) | | | | | | | | | **- -** |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- | **0.203** |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | **0.343** | **0.953** | **0.438** | **0.157** | **0.202** | **- -** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | 4.35 |
| | Potassium (dissolved) | | | | | | | | | **- -** |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10612 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 2/2/09 | 4/23/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/29/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- | 39.7 |
| | Sodium (dissolved) | | | | | | | | | **- -** |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 138 J |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 10 U | 0.0294 J | 0.037 J | 0.093 J | 0.25 J | 3.7269 | *5.4 J* |
| | Sulfate | NA | 250 (s) | -- | 52.3 | 51.8 | 50.2 | 59.6 | 109 | 144 J |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 160 | 178 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 160 | 178 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10613 | | | | | | | | Well KAFB 10614 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 1/22/09 | 4/24/09 | 7/28/09 | 10/15/09 | 10/15/09 | 1/26/10 | 4/22/10 | 6/21/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q409Dup | Q110 | Q210 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.13 J | 0.26 U | 0.10 J | 0.066 J | 0.25 U | 0.26 U | 0.061 J | 68 J | 121000 |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.06 U | 0.067 | 0.080 J | 0.25 | 0.1 | 0.097 | 0.064 U | 46 J | 55200 J |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 61 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 76 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 404 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.02 U | 0.02 U | 0.0198 U | 0.02 U | 0.02 U | 0.0197 U | **286** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 0.24 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 134 |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U | 6 U | 1090 |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 407 |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 134 J |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 3700 |
| | Benzene | NA | 5.0 | 0.65 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.41 J | 1 U | **5240** |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10613 | | | | | | | | Well KAFB 10614 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 1/22/09 | 4/24/09 | 7/28/09 | 10/15/09 | 10/15/09 | 1/26/10 | 4/22/10 | 6/21/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q409Dup | Q110 | Q210 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 53 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | Ethylbenzene | NA | 700 | 0.66 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.32 J | 1 U | **1140** |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 108 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 250 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | **53.7 J** |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 31.4 J |
| | n-Propylbenzene | NA | NA | 0.3 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 146 |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 28.7 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Toluene | NA | 750 * | 3.7 | 28.8 | 12.1 | 105 | 28.4 | 28.7 | 1.2 | 27.2 | **11800** |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 100 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 50 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2.1 | 2 U | 1 U | 1 U | 2 U | 2 U | 0.59 J | 2 U | 2370 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 0.93 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1100 |
| | Xylenes, Total | NA | 620 * | 3 | 3 U | 1 U | 1 U | 3 U | 3 U | 0.59 J | 3 U | **3470** |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | **- -** |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 2,4-Dimethylphenol | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 2,4-Dinitrophenol | NA | NA | 63.8 U | 63.8 U | 63.2 U | 63.2 U | 60.9 U | 60.9 U | 61.8 U | 61.8 U | 3330 U |
| | 2,4-Dinitrotoluene | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10613 | | | | | | | | Well KAFB 10614 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 1/22/09 | 4/24/09 | 7/28/09 | 10/15/09 | 10/15/09 | 1/26/10 | 4/22/10 | 6/21/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q409Dup | Q110 | Q210 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 2-Chloronaphthalene | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 2-Chlorophenol | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 2-Nitroaniline | NA | NA | 53.2 U | 53.2 U | 52.6 U | 52.6 U | 50.8 U | 50.8 U | 51.5 U | 51.5 U | 2780 U |
| | 2-Nitrophenol | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 R |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 4840 |
| | 3-Nitroaniline | NA | NA | 53.2 U | 53.2 U | 52.6 U | 52.6 U | 50.8 U | 50.8 U | 51.5 U | 51.5 U | 2780 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.8 U | 63.8 U | 63.2 U | 63.2 U | 60.9 U | 60.9 U | 61.8 U | 61.8 U | 3330 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 4-Chloroaniline | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 4-Nitroaniline | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | 4-Nitrophenol | NA | NA | 53.2 U | 53.2 U | 52.6 U | 52.6 U | 50.8 U | 50.8 U | 51.5 U | 51.5 U | 2780 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 160 U | 160 U | 158 U | 158 U | R | R | 155 U | 155 U | 8330 R |
| | Benzoic acid | NA | NA | R | 63.8 U | 63.2 U | 63.2 U | 60.9 U | 60.9 U | 61.8 U | 61.8 U | 3330 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 12.3 J | 10.3 U | 10.3 U | 556 U |
| | Butyl benzyl phthalate | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Diethyl phthalate | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Dimethyl phthalate | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Di-n-butyl phthalate | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | Di-n-octyl phthalate | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 3.9 J | 20.6 U | 1110 U |
| | Hexachlorobenzene | NA | 1.0 | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Hexachloroethane | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21.3 U | 21.3 U | 21 U | 21 U | 20.3 U | 20.3 U | 20.6 U | 20.6 U | 1110 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.6 U | 10.6 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |
| | Pentachlorophenol | NA | 1.0 | 63.8 U | 63.8 U | 63.2 U | 63.2 U | 60.9 U | 60.9 U | 61.8 U | 61.8 U | 3330 U |
| | Phenol | NA | 5.0 * | 10.6 U | 2.1 J | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.3 U | 10.3 U | 556 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10613 | | | | | | | | Well KAFB 10614 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 1/22/09 | 4/24/09 | 7/28/09 | 10/15/09 | 10/15/09 | 1/26/10 | 4/22/10 | 6/21/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q409Dup | Q110 | Q210 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1.1 | 1 U | 1 U | 1 U | 1 U | 2.8 | 1 U | 1 U | 198 |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.6 | 1 U | 1 U | 1 U | 1 U | 0.98 J | 1 U | 1 U | 243 |
| | Acenaphthene | NA | NA | 0.14 J | 1 U | 1 U | 1 U | 1 U | 0.21 J | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.32 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.092 J | 0.3 U | 0.31 U | 0.33 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.15 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.16 U |
| | Chrysene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U | 0.31 U | 0.33 U |
| | Fluoranthene | NA | NA | 0.42 U | 0.41 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.44 U |
| | Fluorene | NA | NA | 0.19 J | 0.31 U | 0.32 U | 0.12 J | 0.31 U | 0.42 | 0.3 U | 0.31 U | 0.33 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Naphthalene | NA | 30* [g] | 0.34 J | 1 U | 1 U | 0.5 J | 0.28 J | 1.1 | 1 U | 1 U | **289 J** |
| | Phenanthrene | NA | NA | 0.32 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.3 U | 0.31 U | 0.33 U |
| | Pyrene | NA | NA | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | -- | 41 | - - |
| | Calcuim (dissolved) | | | | | | | | | | - - | 76.6 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | | -- | -- | -- | 0.1 U | **- -** |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.0185 J | 0.1 U | 0.275 | 0.1 U | 0.1 U | 0.1 U | - - | 0.0998 J |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | -- | 0.00574 J | - - |
| | Lead (dissolved) | | | | | | | | | | - - | 0.00549 J |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | -- | 5.9 | - - |
| | Magnesium (dissolved) | | | | | | | | | | - - | 11.6 |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- | -- | 0.00258 J | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.033 | 0.0375 | 0.0318 | 0.00785 J | 0.00825 J | 0.00727 J | - - | **0.399** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | -- | 2.16 | - - |
| | Potassium (dissolved) | | | | | | | | | | - - | 3.22 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10613 | | | | | | | | Well KAFB 10614 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/28/08 | 1/22/09 | 4/24/09 | 7/28/09 | 10/15/09 | 10/15/09 | 1/26/10 | 4/22/10 | 6/21/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q409Dup | Q110 | Q210 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- | -- | 21.4 | - - |
| | Sodium (dissolved) | | | | | | | | | | - - | 32.3 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | 20.1 | 13.2 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.0471 J | 0.133 J | 0.12 J | 10 U | 0.2 J | 0.21 J | 0.1491 | 1 U | 0.14 J |
| | Sulfate | NA | 250 (s) | -- | 34.4 | 31.9 | 32.7 | 27.2 | 27.3 | 28.8 | 30.7 | 30.2 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | 120 | 112 | 262 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 0.5 U | 0 | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 120 | 112 | 262 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10615 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11/3/08 | 1/26/09 | 4/20/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/28/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | -- | 0.26 U | 0.084 J | 0.26 U | 0.25 U | 0.25 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | -- | 0.055 J | 0.060 J | 0.064 U | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1.1 | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10615 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11/3/08 | 1/26/09 | 4/20/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/28/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.38 J | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 0.98 U | 22 | 15 | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 3 U | 3 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 10.5 U | 10.2 U | 10.3 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 10.5 U | 10.2 U | 10.3 U |
| | 2,4-Dimethylphenol | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2,4-Dinitrophenol | NA | NA | R | 62.2 U | 63.2 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U |
| | 2,4-Dinitrotoluene | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10615 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11/3/08 | 1/26/09 | 4/20/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/28/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 2-Chloronaphthalene | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Chlorophenol | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 2-Nitroaniline | NA | NA | 53.5 U | 51.8 U | 52.6 U | 52.6 U | 52.6 U | 51 U | 51.5 U |
| | 2-Nitrophenol | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | 21 U | 20.4 U | 20.6 U |
| | 3-Nitroaniline | NA | NA | 53.5 U | 51.8 U | 52.6 U | 52.6 U | 52.6 U | 51 U | 51.5 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 64.2 U | 62.2 U | 63.2 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 4-Chloroaniline | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Nitroaniline | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | 4-Nitrophenol | NA | NA | 53.5 U | 51.8 U | 52.6 U | 52.6 U | 52.6 U | 51 U | 51.5 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | R | 155 U | 158 U | 158 U | R | 153 U | 155 U |
| | Benzoic acid | NA | NA | R | 62.2 U | 63.2 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 5 J | 10.3 U |
| | Butyl benzyl phthalate | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Diethyl phthalate | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Dimethyl phthalate | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Di-n-butyl phthalate | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | Di-n-octyl phthalate | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | Hexachlorobenzene | NA | 1.0 | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachloroethane | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21.4 U | 20.7 U | 21 U | 21 U | 21 U | 20.4 U | 20.6 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |
| | Pentachlorophenol | NA | 1.0 | 64.2 U | 62.2 U | 63.2 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U |
| | Phenol | NA | 5.0 * | 10.7 U | 10.4 U | 10.5 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10615 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11/3/08 | 1/26/09 | 4/20/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/28/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.25 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 0.036 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.43 U | 0.43 U | 0.42 U | 0.42 U | 0.41 U | 0.42 U | 0.41 U |
| | Fluorene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1.1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.3 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | 42.4 |
| | Calcuim (dissolved) | | | | | | | | | **- -** |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | 0.1 U | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | **- -** |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | | **- -** |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | 5.68 |
| | Magnesium (dissolved) | | | | | | | | | **- -** |
| | Manganese | NA | 0.05 (s) | **0.11** | -- | | | -- | -- | 0.00187 J |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.01 U | 0.00201J | 0.00234 J | 0.00182 J | 0.00148 J | **- -** |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | 2.43 J |
| | Potassium (dissolved) | | | | | | | | | **- -** |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10615 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11/3/08 | 1/26/09 | 4/20/09 | 8/5/09 | 10/9/09 | 1/12/10 | 4/28/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- | 22.2 |
| | Sodium (dissolved) | | | | | | | | | **- -** |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 20.4 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.318 J | 0.378 J | 0.42 J | 0.42 J | 0.44 J | 0.398 | 0.38 J |
| | Sulfate | NA | 250 (s) | -- | 27.2 | 28.3 | 27.8 | 28.2 | 28.4 | 28 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 114 | 110 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 114 | 110 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10616 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/30/08 | 1/27/09 | 4/21/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/12/10 | 5/3/10 |
| | | | | Q408 | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | -- | 0.27 U | 0.077 J | 0.082 J | 0.16 J | 0.26 U | 0.25 U | 240 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | -- | 0.2 | 0.11 | 0.11 | 0.064 U | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.0199 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 1 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 5.2 J | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.81 J | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10616 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/30/08 | 1/27/09 | 4/21/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/12/10 | 5/3/10 |
| | | | | Q408 | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.46 J | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 0.84 J | 67.9 | 42.8 | 40.9 | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 1 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 3 U | 3 U | 1 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | -- | 10.5 U | 10 U | 10.9 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | -- | 10.5 U | 10 U | 10.9 U |
| | 2,4-Dimethylphenol | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 2,4-Dinitrophenol | NA | NA | 63.2 U | 66.7 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 60 U | 65.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10616 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/30/08 | 1/27/09 | 4/21/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/12/10 | 5/3/10 |
| | | | | Q408 | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 2-Chloronaphthalene | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 2-Chlorophenol | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 2-Nitroaniline | NA | NA | 52.6 U | 55.6 U | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 50 U | 54.4 U |
| | 2-Nitrophenol | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | -- | 21 U | 20 U | 21.7 U |
| | 3-Nitroaniline | NA | NA | 52.6 U | 55.6 U | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 50 U | 54.4 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.2 U | 66.7 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 60 U | 65.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 4-Chloroaniline | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 4-Nitroaniline | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | 4-Nitrophenol | NA | NA | 52.6 U | 55.6 U | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 50 U | 54.4 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | R | 167 U | 158 U | 158 U | 158 U | R | 150 U | 163 U |
| | Benzoic acid | NA | NA | 63.2 U | 66.7 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 56.1 U | 65.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 7.6 J | 10.9 U |
| | Butyl benzyl phthalate | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Diethyl phthalate | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Dimethyl phthalate | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Di-n-butyl phthalate | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | Di-n-octyl phthalate | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | Hexachlorobenzene | NA | 1.0 | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Hexachloroethane | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21 U | 22.2 U | 21 U | 21 U | 21 U | 21 U | 20 U | 21.7 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.5 U | 11.1 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |
| | Pentachlorophenol | NA | 1.0 | 63.2 U | 66.7 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 60 U | 65.2 U |
| | Phenol | NA | 5.0 * | 10.5 U | 6.1 J | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10 U | 10.9 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10616 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/30/08 | 1/27/09 | 4/21/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/12/10 | 5/3/10 |
| | | | | Q408 | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.44 J | 0.078 J | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 0.62 J | 1.1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Acenaphthene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Acenaphthylene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Anthracene | NA | NA | 0.32 U | 0.018 J | 0.32 U | 0.32 U | 0.32 U | 0.34 U | 0.31 U | 0.28 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.17 U | 0.15 U | 0.14 U |
| | Chrysene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.34 U | 0.31 U | 0.28 U |
| | Fluoranthene | NA | NA | 0.42 U | 0.052 J | 0.42 U | 0.42 U | 0.42 U | 0.45 U | 0.41 U | 0.38 U |
| | Fluorene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.34 U | 0.31 U | 0.28 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| | Naphthalene | NA | 30* [g] | 0.18 J | 0.095 J | 1 U | 1 U | 1 U | 1.1 U | 1 U | 0.95 U |
| | Phenanthrene | NA | NA | 0.32 U | 0.33 U | 0.32 U | 0.32 U | 0.32 U | 0.34 U | 0.31 U | 0.28 U |
| | Pyrene | NA | NA | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.19 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | | -- | -- | **- -** |
| | Calcuim (dissolved) | | | | | | | | | | 39.6 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | 0.143 | -- | | | | -- | -- | **- -** |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | | | | -- | -- | **- -** |
| | Lead (dissolved) | | | | | | | | | | 0.015 U |
| | Magnesium | NA | NA | -- | -- | | | | -- | -- | **- -** |
| | Magnesium (dissolved) | | | | | | | | | | 6.21 |
| | Manganese | NA | 0.05 (s) | **0.166** | -- | | | | -- | -- | **- -** |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.0256 | 0.0126 | 0.0129 | 0.0074 J | 0.0046 J | 0.0102 | 0.0156 |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | | -- | -- | **- -** |
| | Potassium (dissolved) | | | | | | | | | | 2.49 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10616 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/30/08 | 1/27/09 | 4/21/09 | 4/21/09 | 8/6/09 | 10/9/09 | 1/12/10 | 5/3/10 |
| | | | | Q408 | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | | -- | -- | **- -** |
| | Sodium (dissolved) | | | | | | | | | | 22.8 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | 7 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.027 J | 0.104 J | 0.11 J | 0.11 J | 10 U | 0.19 J | 0.084 J | 0.15 J |
| | Sulfate | NA | 250 (s) | | 26.8 | 27.2 | 27 | 26.3 | 27.3 | 27.6 | 25.6 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | 112 | 130 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | 112 | 130 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10617 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/23/09 | 7/29/09 | 10/16/09 | 1/27/10 | 1/27/10 | 4/19/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.28 U | 0.059 J | 0.13 J | 0.26 U | 0.120 J | 0.098 J | 110 J |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.19 | 0.064 U | 0.1 | 0.063 J | 0.039 J | 0.059 J | 200 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 0.69 J | 1.3 | 0.23 J | 2.4 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | **3.6** | **2.9 J** | **2.8 J** | **2.2 J** | **1.3** | **1.2** | **1.4** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.16 J |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.18 J | 1 U | 0.25 J |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 0.058 J | 1 U | 1 U | 0.057 J | 1 U | 0.059 J | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | 1 U | 1 U | 1 U | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | **11** | 1.3 | 0.32 J | 1 U | 0.33 J | 0.31 J | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10617 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/23/09 | 7/29/09 | 10/16/09 | 1/27/10 | 1/27/10 | 4/19/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.51 J |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 0.6 J | 1.2 | 1.1 | 1.9 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 0.17 J | 0.099 J | 1 U | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.15 J | 0.2 J |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.16 J | 0.14 J | 0.24 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 0.26 J | 0.3 J | 0.29 J |
| | Toluene | NA | 750 * | 66.6 | 9.3 | 48.7 | 16 | 0.66 J | 0.59 J | 14 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 0.19 J |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 1 U | 0.61 J | 2.5 | 5.6 | 4.1 | 8.2 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 J | 1 U | 0.61 J | 2.5 J | 5.7 | 4.2 | 8.2 |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Dichlorobenzene | NA | NA | 14.5 U | 10.5 U | 10.5 U | 1 U | 1 U | 1 U | -- |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,4-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 1,3-Dinitrobenzene | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 1-Methylnaphthalene | NA | 30* [g] | 0.058 J | 1 U | 1 U | 0.057 J | 1 U | 0.059 J | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 2,4,6-Trichlorophenol | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 2,4-Dimethylphenol | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 2,4-Dinitrophenol | NA | NA | 87 U | 63.2 U | 63.2 U | 61.5 U | 61.2 U | 61.2 U | 63.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10617 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/23/09 | 7/29/09 | 10/16/09 | 1/27/10 | 1/27/10 | 4/19/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 2-Chloronaphthalene | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 2-Chlorophenol | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 14.5 U | 10.5 U | 10.5 U | 1 U | 1 U | 1 U | -- |
| | 2-Methylphenol | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 2-Nitroaniline | NA | NA | 72.5 U | 52.6 U | 52.6 U | 51.3 U | 51 U | 51 U | 52.6 U |
| | 2-Nitrophenol | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 20.5 U | R | R | 21 U |
| | 3-Nitroaniline | NA | NA | 72.5 U | 52.6 U | 52.6 U | 51.3 U | 51 U | 51 U | 52.6 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 87 U | 63.2 U | 63.2 U | 61.5 U | 61.2 U | 61.2 U | 63.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 4-Chloro-3-methylphenol | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 4-Chloroaniline | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 4-Nitroaniline | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | 4-Nitrophenol | NA | NA | 72.5 U | 52.6 U | 52.6 U | 51.3 U | 51 U | 51 U | 52.6 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 217 U | 158 U | 158 U | R | R | R | 158 U |
| | Benzoic acid | NA | NA | 87 U | 63.2 U | 63.2 U | R | 61.2 U | 61.2 U | 63.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Bis(2-chloroethyl)ether | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 14.5 U | 10.5 U | 10.8 J | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Butyl benzyl phthalate | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Diethyl phthalate | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Dimethyl phthalate | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Di-n-butyl phthalate | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | Di-n-octyl phthalate | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | Hexachlorobenzene | NA | 1.0 | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Hexachlorocyclopentadiene | NA | 50 | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Hexachloroethane | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Hexachlorobutadiene | NA | NA | 14.5 U | 10.5 U | 10.5 U | 1 U | 1 U | 1 U | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | 14.5 U | 10.5 U | 10.5 U | 0.17 J | 0.099 J | 1 U | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 29 U | 21 U | 21 U | 20.5 U | 20.4 U | 20.4 U | 21 U |
| | N-Nitrosodiphenylamine | NA | NA | 14.5 U | 10.5 U | 10.5 U | 10.2 U | 10.2 U | 10.2 U | 10.5 U |
| | Pentachlorophenol | NA | 1.0 | 87 U | 63.2 U | 63.2 U | 61.5 U | 61.2 U | 61.2 U | 63.2 U |
| | Phenol | NA | 5.0 * | 14.5 U | 10.5 U | 10.5 U | 10.2 U | R | R | 10.5 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10617 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/23/09 | 7/29/09 | 10/16/09 | 1/27/10 | 1/27/10 | 4/19/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.058 J | 1 U | 1 U | 0.057 J | 1 U | 0.059 J | 0.24 J |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.2 J |
| | Acenaphthene | NA | NA | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.33 U | 0.04 J | 0.32 U | 0.3 U | 0.31 U | 0.31 U | 0.33 U |
| | Benz(a)anthracene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(b)fluoranthene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.2 J |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.37 |
| | Chrysene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.33 U | 0.32 U | 7.9 | 0.3 U | 0.31 U | 0.22 J | 1 |
| | Fluoranthene | NA | NA | 0.43 U | 0.42 U | 0.42 U | 0.4 U | 0.41 U | 0.41 U | 0.44 U |
| | Fluorene | NA | NA | 0.33 U | 0.32 U | 0.32 U | 0.3 U | 0.055 J | 0.31 U | 0.025 J |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| | Naphthalene | NA | 30* [g] | 0.13 J | 1 U | 0.31 J | 0.17 J | 0.099 J | 1 U | 0.22 J |
| | Phenanthrene | NA | NA | 0.33 U | 0.24 J | 1 U | 0.3 U | 0.31 U | 0.31 U | 0.33 U |
| | Pyrene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | | | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | | | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | | | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | | | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | | | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | | | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | | | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | | | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | -- | 41.3 |
| | Calcuim (dissolved) | | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | | | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | | | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | | | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | | | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | -- | 0.108 |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | - - |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | | -- | -- | -- | 6.02 |
| | Magnesium (dissolved) | | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | -- | 0.0056 J |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.01 U | 0.00078 J | 0.00063J | 0.00508 J | 0.00375 J | 0.00373 J | - - |
| | Nickel | 0.028 | NA | -- | | | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | -- | 2.32 |
| | Potassium (dissolved) | | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | | | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10617 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/23/09 | 7/29/09 | 10/16/09 | 1/27/10 | 1/27/10 | 4/19/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | | | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | -- | 23.9 |
| | Sodium (dissolved) | | | | | | | | | **- -** |
| | Thallium | 0.002 | 0.002 | -- | | | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | | | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | | | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 11.3 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.279 J | 0.29 J | 0.34 J | 0.27 J | 0.169 | 0.2471 | 0.28 J |
| | Sulfate | NA | 250 (s) | 37 | 36.2 | 36.4 | 32.3 | 32.9 | 32.9 | 34.7 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 126 | 130 | 126 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 126 | 130 | 126 |
| **Field Parameters** [f] | Temperature (degrees C) | | | 24.5 | | | | | | -- |
| | pH (standard pH units) | | | 7.65 | | | | | | -- |
| | Conductivity (mS/cm) | | | 30.1 | | | | | | -- |
| | Dissolved Oxygen (mg/L) | | | 10.1 | | | | | | -- |
| | Turbidity (NTU) | | | 7.61 | | | | | | -- |
| | Redox Potential (ORP in mV) | | | 110 | | | | | | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|
| | | | | 2/10/09 | 1/19/10 | 4/20/10 |
| | | | | Q109 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 16.7 J | 15 | **12800** |
| | MRO | NA | NA | -- | -- | -- |
| | GRO | NA | NA | 18 | 11.2 | **7300** |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 10 U | 10 U | 5 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 10 U | 10 U | 5 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 10 U | 10 U | 5 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 10 U | 10 U | 5 U |
| | 1,1-Dichloroethane | NA | 25 * | 10 U | 10 U | 5 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 10 U | 10 U | 5 U |
| | 1,1-Dichloropropene | NA | NA | 10 U | 10 U | 5 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 12.2 U | 12.2 U | 6.1 U |
| | 1,2,3-Trichloropropane | NA | NA | 15.2 U | 15.2 U | 7.6 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 10 U | 10 U | 5 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 200 | 204 | **147** |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 50 U | 50 U | 25 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | **160** | **21.9 J** | **4.2** |
| | 1,2-Dichlorobenzene | NA | 600 | 10 U | 10 U | 5 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 10 U | 10 U | **6.3** |
| | 1,2-Dichloropropane | NA | 5.0 | 10 U | 10 U | 5 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 72 | 58.2 | 42.2 |
| | 1,3-Dichlorobenzene | NA | NA | 10 U | 10 U | 5 U |
| | 1,3-Dichloropropane | NA | NA | 10 U | 10 U | 5 U |
| | 1,4-Dichlorobenzene | NA | 75 | 10 U | 10 U | 5 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 50 U | 50 U | 25 U |
| | 2-Butanone (MEK) | NA | NA | 760 | 258 | 20.9 J |
| | 2-Chlorotoluene | NA | NA | 10 U | 10 U | 5 U |
| | 2-Hexanone | NA | NA | 50 U | 50 U | 25 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 10 U | 10 U | 5 U |
| | 4-Isopropyltoluene | NA | NA | 4.9 J | 10 U | 3.7 J |
| | 4-Methyl-2-pentanone | NA | NA | 200 | 148 | 114 |
| | Acetone | NA | NA | 840 | 246 | 50 U |
| | Benzene | NA | 5.0 | **7700** | **4380** | **848** |
| | Bromobenzene | NA | NA | 10 U | 10 U | 5 U |
| | Bromochloromethane | NA | NA | 10 U | 10 U | 5 U |
| | Bromodichloromethane | NA | NA | 10 U | 10 U | 5 U |
| | Bromoform | NA | NA | 10 U | 10 U | 5 U |
| | Bromomethane | NA | NA | 20 U | 20 U | 10 U |
| | Carbon disulfide | NA | NA | 20 U | 20 U | 10 U |
| | Carbon tetrachloride | NA | 5.0 | 10 U | 10 U | 5 U |
| | Chlorobenzene | NA | 100 | 10 U | 10 U | 5 U |
| | Chloroethane | NA | NA | 20 U | 20 U | 10 U |
| | Chloroform | NA | 100 * | 10 U | 10 U | 1.3 J |
| | Chloromethane | NA | NA | 20 U | 20 U | 10 U |
| | cis-1,2-Dichloroethene | NA | 70 | 10 U | 10 U | 5 U |
| | cis-1,3-Dichloropropene | NA | NA | 10 U | 10 U | 5 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|
| | | | | 2/10/09 | 1/19/10 | 4/20/10 |
| | | | | Q109 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 10 U | 10 U | 5 U |
| | Dibromomethane | NA | NA | 10.6 U | 10.6 U | 5.3 U |
| | Dichlorodifluoromethane | NA | NA | 20 U | 20 U | 10 U |
| | Ethylbenzene | NA | 700 | 280 | 546 | 238 |
| | Hexachlorobutadiene | NA | NA | 10 U | 10 U | 5 U |
| | Isopropylbenzene | NA | NA | 22 | 61.7 | 50.8 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 50 U | 50 U | 25 U |
| | Methylene chloride | NA | 5.0 | 50 U | 50 U | 25 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 4.1 J | 10 U | 5.7 |
| | n-Propylbenzene | NA | NA | 14 | 53.2 | 35.2 |
| | sec-Butylbenzene | NA | NA | 3.4 J | 7 J | 6.8 |
| | Styrene | NA | 100 | 10 U | 10 U | 5 U |
| | tert-Butylbenzene | NA | NA | 10 U | 10 U | 5 U |
| | Tetrachloroethene | NA | 5.0 | 10 U | 10 U | 5 U |
| | Toluene | NA | 750 * | 470 | 251 | 45.4 |
| | trans-1,2-DCE | NA | 100 | 10 U | 10 U | 5 U |
| | trans-1,3-Dichloropropene | NA | NA | 10 U | 10 U | 5 U |
| | Trichloroethene | NA | 5.0 | 10 U | 10 U | 5 U |
| | Trichlorofluoromethane | NA | NA | 20 U | 20 U | 10 U |
| | Vinyl chloride | NA | 1.0 * | 10 U | 10 U | 5 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 1400 | 1050 | 564 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 520 | 418 | 167 |
| | Xylenes, Total | NA | 620 * | **1900** | **1470** | **731** |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | 10.5 U | 10.8 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 2,4-Dichlorophenol | NA | NA | -- | 10.5 U | 10.8 U |
| | 2,4-Dimethylphenol | NA | NA | 10.8 | 10.5 U | 10.8 U |
| | 2,4-Dinitrophenol | NA | NA | 61.5 U | 63.2 U | 64.5 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.5 U | 21 U | 21.5 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|
| | | | | 2/10/09 | 1/19/10 | 4/20/10 |
| | | | | Q109 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 2-Chloronaphthalene | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 2-Chlorophenol | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 2-Nitroaniline | NA | NA | 51.3 U | 52.6 U | 53.8 U |
| | 2-Nitrophenol | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 3,4-Methylphenol | NA | NA | -- | 21 U | 21.5 U |
| | 3-Nitroaniline | NA | NA | 51.3 U | 52.6 U | 53.8 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 61.5 U | 63.2 U | 64.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 4-Chloroaniline | NA | NA | 20.5 U | 21 U | 21.5 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 4-Nitroaniline | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | 4-Nitrophenol | NA | NA | 51.3 U | 52.6 U | 53.8 U |
| | Aniline | NA | NA | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- |
| | Benzidine | NA | NA | 154 U | 158 U | 161 U |
| | Benzoic acid | NA | NA | 61.5 U | 36.4 J | 64.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.2 U | 10.5 U | 4.8 J |
| | Butyl benzyl phthalate | NA | NA | 20.5 U | 21 U | 21.5 U |
| | Carbazole | NA | NA | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Diethyl phthalate | NA | NA | 10.2 U | 20.4 | 10.8 U |
| | Dimethyl phthalate | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Di-n-butyl phthalate | NA | NA | 20.5 U | 21 U | 21.5 U |
| | Di-n-octyl phthalate | NA | NA | 20.5 U | 21 U | 3.5 J |
| | Hexachlorobenzene | NA | 1.0 | 10.2 U | 10.5 U | 10.8 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.2 U | 10.5 U | 10.8 U |
| | Hexachloroethane | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.5 U | 21 U | 21.5 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.5 U | 21 U | 21.5 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.2 U | 10.5 U | 10.8 U |
| | Pentachlorophenol | NA | 1.0 | 61.5 U | 63.2 U | 64.5 U |
| | Phenol | NA | 5.0 * | 10.5U | 10.5 U | 10.8 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|
| | | | | 2/10/09 | 1/19/10 | 4/20/10 |
| | | | | Q109 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 9.9 | 17.1 | 19.2 J |
| | 2-Methylnaphthalene | NA | 30* [g] | 14.5 | 22.6 | 23.4 |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 0.64 J | 1 U | 1 U |
| | Anthracene | NA | NA | 0.31 U | 0.3 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.085 J | 0.2 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.3 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.4 U | 0.41 U |
| | Fluorene | NA | NA | 0.31 U | 2.9 | 3.5 |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 21.4 | **59.7** | **34.5** |
| | Phenanthrene | NA | NA | 1.6 | 0.3 U | 0.31 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | 59.9 |
| | Calcuim (dissolved) | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | 0.196 |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.264 | - - |
| | Lead | 0.01 | 0.015 | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | - - |
| | Magnesium | NA | NA | -- | -- | 9.38 |
| | Magnesium (dissolved) | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | -- | **1.11** |
| | Manganese (dissolved) | NA | 0.05 (s) | **0.641 J** | **1.04** | - - |
| | Nickel | 0.028 | NA | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | 2.94 |
| | Potassium (dissolved) | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10618 | | |
|---|---|---|---|---|---|---|
| | | | | 2/10/09 | 1/19/10 | 4/20/10 |
| | | | | Q109 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | 28.2 |
| | Sodium (dissolved) | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | 45.1 |
| | Bromide | NA | NA | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 10 U | 0.1044 | 0.057 J |
| | Sulfate | NA | 250 (s) | 64.7 | 61.3 | 49.6 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | 130 | 150 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | 130 | 150 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10619 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/22/09 | 7/29/09 | 10/15/09 | 1/18/10 | 4/20/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.10 J | 0.26 U | 0.13 J | 0.29 U | 0.26 U | 170 J |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.3 | 0.14 | 0.42 | 0.093 | 0.064 U | 110 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 4.2 | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | **0.6** | **0.53** | **0.69** | **0.46** | **0.38 J** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1.1 | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 0.39 J | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 0.35 J | 1 U | 0.45 J | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10619 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/22/09 | 7/29/09 | 10/15/09 | 1/18/10 | 4/20/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 0.51 J | 5.1 J | 0.64 J | 0.2 J | 0.26 J |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 0.48 J | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 0.64 J | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 114 | 42.7 | 14 | 17.6 | 1.2 | 47.1 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 0.65 J | 0.7 J | 7.5 | 1.1 J | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 0.65 J | 0.7 J | 7.5 | 1.1 J | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.2 U | 10.3 U | 10.3 U |
| | 1,3-Dinitrobenzene | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 2,4,6-Trichlorophenol | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.2 U | 10.3 U | 10.3 U |
| | 2,4-Dimethylphenol | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 2,4-Dinitrophenol | NA | NA | 57.7 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U | 61.8 U |
| | 2,4-Dinitrotoluene | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10619 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/22/09 | 7/29/09 | 10/15/09 | 1/18/10 | 4/20/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 2-Chloronaphthalene | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 2-Chlorophenol | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 5.2 J | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 2-Nitroaniline | NA | NA | 48.1 U | 52.6 U | 52.6 U | 51 U | 51.5 U | 51.5 U |
| | 2-Nitrophenol | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 20.4 U | 20.6 U | 20.6 U |
| | 3-Nitroaniline | NA | NA | 48.1 U | 52.6 U | 52.6 U | 51 U | 51.5 U | 51.5 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 57.7 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U | 61.8 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 4-Chloro-3-methylphenol | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 4-Chloroaniline | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 4-Nitroaniline | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | 4-Nitrophenol | NA | NA | 48.1 U | 52.6 U | 52.6 U | 51 U | 51.5 U | 51.5 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 144 U | 158 U | 158 U | R | 155 U | 155 U |
| | Benzoic acid | NA | NA | 57.7 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U | 61.8 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Bis(2-chloroethyl)ether | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 5.1 J | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Butyl benzyl phthalate | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Diethyl phthalate | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Dimethyl phthalate | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Di-n-butyl phthalate | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | Di-n-octyl phthalate | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | Hexachlorobenzene | NA | 1.0 | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Hexachlorocyclopentadiene | NA | 50 | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Hexachloroethane | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 19.2 U | 21 U | 21 U | 20.4 U | 20.6 U | 20.6 U |
| | N-Nitrosodiphenylamine | NA | NA | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |
| | Pentachlorophenol | NA | 1.0 | 57.7 U | 63.2 U | 63.2 U | 61.2 U | 61.8 U | 61.8 U |
| | Phenol | NA | 5.0 * | 9.6 U | 10.5 U | 10.5 U | 10.2 U | 10.3 U | 10.3 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10619 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/22/09 | 7/29/09 | 10/15/09 | 1/18/10 | 4/20/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.094 J | 0.14 J | 1 U | 0.12 J | 0.04 J | 1.1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.1 U | 0.1 J | 1 U | 0.08 J | 1 U | 1.1 U |
| | Acenaphthene | NA | NA | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.32 U |
| | Benz(a)anthracene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.16 U |
| | Chrysene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.32 U | 0.32 | 0.31 U | 1.1 J | 0.32 U |
| | Fluoranthene | NA | NA | 0.43 U | 0.42 U | 0.42 U | 0.41 U | 0.4 U | 0.43 U |
| | Fluorene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.3 U | 0.32 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1.1 U | 0.11 J | 0.22 J | 0.2 J | 1 U | 1.1 U |
| | Phenanthrene | NA | NA | 0.32 U | 1 U | 1 U | 0.31 U | 0.3 U | 0.32 U |
| | Pyrene | NA | NA | 0.22 U | 0.21 U | 0.21 U | 0.2 U | 0.2 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | 42.8 |
| | Calcuim (dissolved) | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | 0.00736 J | 0.1 U | 0.1 U | 0.1 U | 0.1 U | - - |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | 0.00547 J |
| | Lead (dissolved) | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | | -- | -- | 6.15 |
| | Magnesium (dissolved) | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | 0.00299 J |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.0216 | 0.00147 J | **0.0528** | 0.00424 J | 0.00446 J | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | 2.41 |
| | Potassium (dissolved) | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10619 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/23/09 | 4/22/09 | 7/29/09 | 10/15/09 | 1/18/10 | 4/20/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | 24.6 |
| | Sodium (dissolved) | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 12.2 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.095 J | 0.12 J | 0.25 J | 0.12 J | 0.1 U | 0.084 J |
| | Sulfate | NA | 250 (s) | 34.1 | 45.4 | 64.9 | 28.6 | 33.6 | 35.3 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 134 | 134 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 134 | 134 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10620 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/22/09 | 4/24/09 | 7/28/09 | 10/16/09 | 1/19/10 | 4/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.26 U | 0.26 U | 0.076 J | 0.28 U | 0.091 J | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.98 | 1.2 J | 0.78 | 0.69 | 0.37 | 300 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 2.1 | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.03 U | 0.02 U | 0.02 U | 0.0196 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 0.29 J | 0.28 J | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 0.66 J | 1.1 | 0.96 J | 0.76 J | 0.6 J | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10620 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/22/09 | 4/24/09 | 7/28/09 | 10/16/09 | 1/19/10 | 4/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.9 | 4.4 | 4 J | 2.7 | 2.2 | 3 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.16 J | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 0.64 J | 0.54 J | 0.35 J | 0.31 J | 0.39 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 68.3 | 9.7 | 31.1 | 33.1 | 0.64 J | 17.9 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 0.4 J | 0.64 J | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 0.4 J | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.5 U | 10.3 U | 11.1 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.5 U | 10.3 U | 11.1 U |
| | 2,4-Dimethylphenol | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 2,4-Dinitrophenol | NA | NA | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 61.8 U | 66.7 U |
| | 2,4-Dinitrotoluene | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10620 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/22/09 | 4/24/09 | 7/28/09 | 10/16/09 | 1/19/10 | 4/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 2-Chloronaphthalene | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 2-Chlorophenol | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 2-Nitroaniline | NA | NA | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.5 U | 55.6 U |
| | 2-Nitrophenol | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 21 U | 20.6 U | 22.2 U |
| | 3-Nitroaniline | NA | NA | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.5 U | 55.6 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 61.8 U | 66.7 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 4-Chloroaniline | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 4-Nitroaniline | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | 4-Nitrophenol | NA | NA | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.5 U | 55.6 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 158 U | 158 U | 158 U | R | 155 U | 167 U |
| | Benzoic acid | NA | NA | 63.2 U | 63.2 U | 63.2 U | R | 61.8 U | 66.7 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Butyl benzyl phthalate | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Diethyl phthalate | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Dimethyl phthalate | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Di-n-butyl phthalate | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | Di-n-octyl phthalate | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | Hexachlorobenzene | NA | 1.0 | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Hexachloroethane | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21 U | 21 U | 21 U | 21 U | 20.6 U | 22.2 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |
| | Pentachlorophenol | NA | 1.0 | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 61.8 U | 66.7 U |
| | Phenol | NA | 5.0 * | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.3 U | 11.1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10620 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/22/09 | 4/24/09 | 7/28/09 | 10/16/09 | 1/19/10 | 4/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.33 U | 0.3 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.32 U | 1.7 | 0.33 U | 3.9 J | 0.31 U |
| | Fluoranthene | NA | NA | 0.42 U | 0.42 U | 0.42 U | 0.44 U | 0.4 U | 0.42 U |
| | Fluorene | NA | NA | 0.32 U | 0.32 U | 0.32 U | 0.33 U | 0.3 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 0.32 J | 0.33 J | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.32 U | 1 U | 1 U | 0.33 U | 0.3 U | 0.31 U |
| | Pyrene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | 62.4 |
| | Calcuim (dissolved) | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | 0.00668 J | 0.1 U | 0.1 U | 0.1 U | 0.0097 J | - - |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | | -- | -- | 9.66 |
| | Magnesium (dissolved) | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | 0.0148 U |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.014 U | 0.0118 | 0.00831 J | 0.00411 J | 0.0054 J | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | 2.93 |
| | Potassium (dissolved) | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10620 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/22/09 | 4/24/09 | 7/28/09 | 10/16/09 | 1/19/10 | 4/21/10 |
| | | | | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | 27.9 |
| | Sodium (dissolved) | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 55.4 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.142 J | 0.14 J | 10 U | 0.33 J | 0.1 U | 1 U |
| | Sulfate | NA | 250 (s) | 41.4 | 44.8 | 47.6 | 49.8 | 46.9 | 53.9 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 130 | 134 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 134 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 130 | 134 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10621 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/11/09 | 8/4/09 | 8/4/09 | 10/14/09 | 1/20/10 | 4/22/10 |
| | | | | PostDevelop | Q309Dup | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.42 | 0.39 U | 0.46 U | 0.38 U | 0.24 U | 250 J |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.086 | 0.064 U | 0.064 U | 0.12 | 0.021 J | 170 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1.9 | 1.8 | 1 U | 0.93 J | **1.4** |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | **0.45** | **0.49** | **0.49** | **0.38** | **0.25 J** | **0.32** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 0.16 J | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 0.46 J | 0.56 J | 0.42 J | 0.34 J | 0.38 J |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 2.4 | 3.4 | 3.4 | 0.74 J | 1.9 | 2.4 |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 1 U | 1 U | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 | 0.24 J | 0.26 J | 1 U | 4.2 | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 0.16 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10621 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/11/09 | 8/4/09 | 8/4/09 | 10/14/09 | 1/20/10 | 4/22/10 |
| | | | | PostDevelop | Q309Dup | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 0.36 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1.8 | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.2 | 1.2 | 1.2 | 1 U | 0.41 J | 1.6 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.27 J | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.18 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 37.9 | 23.7 U | 25.1 | 43 | 0.93 J | 47.3 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 8.1 | 2.5 | 2.5 | 1.2 J | 5 | 7.5 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1.4 | 1 U |
| | Xylenes, Total | NA | 620 * | 8.1 | 2.5 J | 2.5 J | 1.2 J | 6.4 | 7.5 |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | 10.5 U | 9.4 U | 10.6 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 2,4,6-Trichlorophenol | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | 10.5 U | 9.4 U | 10.6 U |
| | 2,4-Dimethylphenol | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 2,4-Dinitrophenol | NA | NA | -- | 63.2 U | 63.2 U | 63.2 U | 56.6 U | 63.5 U |
| | 2,4-Dinitrotoluene | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10621 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/11/09 | 8/4/09 | 8/4/09 | 10/14/09 | 1/20/10 | 4/22/10 |
| | | | | PostDevelop | Q309Dup | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 2-Chloronaphthalene | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 2-Chlorophenol | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 2-Nitroaniline | NA | NA | -- | 52.6 U | 52.6 U | 52.6 U | 47.2 U | 52.9 U |
| | 2-Nitrophenol | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 3,3´-Dichlorobenzidine | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | 21 U | 18.9 U | 21.2 U |
| | 3-Nitroaniline | NA | NA | -- | 52.6 U | 52.6 U | 52.6 U | 47.2 U | 52.9 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | -- | 63.2 U | 63.2 U | 63.2 U | 56.6 U | 63.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 4-Chloro-3-methylphenol | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 4-Chloroaniline | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 4-Nitroaniline | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | 4-Nitrophenol | NA | NA | -- | 52.6 U | 52.6 U | 52.6 U | 47.2 U | 52.9 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | -- | 158 U | 158 U | R | 142 U | 159 U |
| | Benzoic acid | NA | NA | -- | 63.2 U | 63.2 U | 63.2 U | 56.6 U | 63.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Bis(2-chloroethyl)ether | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Butyl benzyl phthalate | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Diethyl phthalate | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Dimethyl phthalate | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Di-n-butyl phthalate | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | Di-n-octyl phthalate | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | Hexachlorobenzene | NA | 1.0 | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Hexachlorocyclopentadiene | NA | 50 | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Hexachloroethane | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | N-Nitrosodi-n-propylamine | NA | NA | -- | 21 U | 21 U | 21 U | 18.9 U | 21.2 U |
| | N-Nitrosodiphenylamine | NA | NA | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |
| | Pentachlorophenol | NA | 1.0 | -- | 63.2 U | 63.2 U | 63.2 U | 56.6 U | 63.5 U |
| | Phenol | NA | 5.0 * | -- | 10.5 U | 10.5 U | 10.5 U | 9.4 U | 10.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10621 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/11/09 | 8/4/09 | 8/4/09 | 10/14/09 | 1/20/10 | 4/22/10 |
| | | | | PostDevelop | Q309Dup | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 0.12 J | 0.068 J |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 0.18 J | 1 U |
| | Acenaphthene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | -- | 0.11 J | 0.11 J | 0.31 U | 0.32 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | -- | 0.16 U | 0.16 U | 0.15 U | 0.16 U | 0.15 U |
| | Chrysene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | -- | 0.32 U | 0.32 U | 0.31 U | 0.32 U | 0.31 U |
| | Fluoranthene | NA | NA | -- | 0.42 U | 0.42 U | 0.41 U | 0.42 U | 0.41 U |
| | Fluorene | NA | NA | -- | 0.32 U | 0.32 U | 0.3 J | 0.32 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1.5 | 0.3 J |
| | Phenanthrene | NA | NA | -- | 1 U | 1 U | 0.31 U | 0.32 U | 0.31 U |
| | Pyrene | NA | NA | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | -- | -- | 60.1 |
| | Calcuim (dissolved) | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.00583 J | - - |
| | Lead | 0.01 | 0.015 | -- | | | -- | -- | 0.00394 J |
| | Lead (dissolved) | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | | -- | -- | 8.76 |
| | Magnesium (dissolved) | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | | -- | -- | 0.0425 |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.00352 J | 0.0031 J | 0.00444 J | 0.0208 | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | -- | -- | 2.9 |
| | Potassium (dissolved) | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10621 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/11/09 | 8/4/09 | 8/4/09 | 10/14/09 | 1/20/10 | 4/22/10 |
| | | | | PostDevelop | Q309Dup | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | -- | -- | 28.7 |
| | Sodium (dissolved) | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 63 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | -- | 10 U | 10 U | 0.17 J | 0.42 | 0.35 J |
| | Sulfate | NA | 250 (s) | -- | 39 | 39.4 | 38.8 | 46.1 | 48 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | 120 | 114 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | 120 | 114 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10622 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/19/09 | 8/5/09 | 10/13/09 | 10/13/09 | 1/20/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q409Dup | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.34 | 0.2 J | 0.26 U | 0.26 U | 0.26 U | 360 |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.06 F | 0.065 | 0.13 | 0.13 | 0.064 U | 130 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 0.45 F | 1 U | 1 U | 1 U | 0.38 J | 1.2 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | **0.89 J** | **0.79** | **0.75** | **0.69** | **0.92 J** | **0.94** |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 0.24 J | 0.2 J |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 0.32 F | 1 U | 1 U | 1 U | 0.32 J | 0.31 J |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1.6 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10622 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/19/09 | 8/5/09 | 10/13/09 | 10/13/09 | 1/20/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q409Dup | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 0.64 F | 1 U | 1 U | 1 U | 0.32 J | 1.1 J |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.13 J |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 25.8 | 30.1 | 56.6 | 55.2 | 0.88 J | 53 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2.3 | 1 U | 2 U | 2 U | 1.7 J | 3.2 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 0.62 J | 1 U |
| | Xylenes, Total | NA | 620 * | 2.3 F | 1 U | 3 U | 3 U | 2.3 J | 3.2 |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 2,4,6-Trichlorophenol | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 2,4-Dimethylphenol | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 2,4-Dinitrophenol | NA | NA | -- | 63.2 U | 60.9 U | 60.9 U | 63.5 U | 63.2 U |
| | 2,4-Dinitrotoluene | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10622 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/19/09 | 8/5/09 | 10/13/09 | 10/13/09 | 1/20/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q409Dup | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 2-Chloronaphthalene | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 2-Chlorophenol | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 2-Nitroaniline | NA | NA | -- | 52.6 U | 50.8 U | 50.8 U | 52.9 U | 52.6 U |
| | 2-Nitrophenol | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 3,3´-Dichlorobenzidine | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 3-Nitroaniline | NA | NA | -- | 52.6 U | 50.8 U | 50.8 U | 52.9 U | 52.6 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | -- | 63.2 U | 60.9 U | 60.9 U | 63.5 U | 63.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 4-Chloro-3-methylphenol | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 4-Chloroaniline | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 4-Nitroaniline | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | 4-Nitrophenol | NA | NA | -- | 52.6 U | 50.8 U | 50.8 U | 52.9 U | 52.6 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | -- | 158 U | R | R | 159 U | 158 U |
| | Benzoic acid | NA | NA | -- | 63.2 U | 60.9 U | 60.9 U | 63.5 U | 63.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Bis(2-chloroethyl)ether | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 6.7 J |
| | Butyl benzyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Diethyl phthalate | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Dimethyl phthalate | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Di-n-butyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 1.8 J |
| | Di-n-octyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | Hexachlorobenzene | NA | 1.0 | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Hexachlorocyclopentadiene | NA | 50 | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Hexachloroethane | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | N-Nitrosodi-n-propylamine | NA | NA | -- | 21 U | 20.3 U | 20.3 U | 21.2 U | 21 U |
| | N-Nitrosodiphenylamine | NA | NA | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 10.5 U |
| | Pentachlorophenol | NA | 1.0 | -- | 63.2 U | 60.9 U | 60.9 U | 63.5 U | 63.2 U |
| | Phenol | NA | 5.0 * | -- | 10.5 U | 10.2 U | 10.2 U | 10.6 U | 2.3 J |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10622 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/19/09 | 8/5/09 | 10/13/09 | 10/13/09 | 1/20/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q409Dup | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | -- | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | -- | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | -- | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| | Fluoranthene | NA | NA | -- | 0.42 U | 0.41 U | 0.41 U | 0.08 J | 0.41 U |
| | Fluorene | NA | NA | -- | 0.32 U | 0.38 | 0.31 U | 0.24 J | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | -- | 0.34 J | 0.2 J | 0.26 J | 1.4 | 1 U |
| | Phenanthrene | NA | NA | -- | 1 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | -- | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | -- | -- | -- | 43.9 |
| | Calcuim (dissolved) | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | -- | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | - - |
| | Lead | 0.01 | 0.015 | -- | | -- | -- | -- | 0.00451 J |
| | Lead (dissolved) | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | -- | -- | -- | 6.22 |
| | Magnesium (dissolved) | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | -- | -- | -- | **0.11** |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.00232 J | 0.000996 J | 0.00101 J | 0.0134 | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | -- | -- | -- | 2.8 |
| | Potassium (dissolved) | | | | | | | | **- -** |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10622 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/19/09 | 8/5/09 | 10/13/09 | 10/13/09 | 1/20/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q409Dup | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | -- | -- | -- | 25.7 |
| | Sodium (dissolved) | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 12.3 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | -- | 10 U | 10 U | 10 U | 0.1 U | 0.056 J |
| | Sulfate | NA | 250 (s) | -- | 37.1 | 34.1 | 28.6 | 34.8 | 37.2 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | | -- | -- | -- | 128 | 132 |
| | Carbonate $CO3^{2-}$ | NA | NA | | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | | -- | -- | -- | 128 | 132 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10623 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/27/09 | 8/4/09 | 10/13/09 | 1/21/10 | 1/21/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.24 F | 0.26 U | 0.25 U | 0.26 U | 0.26 U | 58 J |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.044 F | 0.064 U | 0.028 J | 0.064 U | 0.064 U | 100 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.01 U | 0.02 U | 0.02 U | 0.012 J | 0.015 J | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 1 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1.1 | 1.1 | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10623 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/27/09 | 8/4/09 | 10/13/09 | 1/21/10 | 1/21/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 0.55 J | 0.66 J | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 20.9 | 1 U | 13 | 0.89 J | 0.91 J | 72.1 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 1 U | 1 U | 2 U | 1.1 J | 1.1 J | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 1 U | 1 U | 3 U | 1.5 J | 1.6 J | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 2,4,6-Trichlorophenol | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 2,4-Dimethylphenol | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 2,4-Dinitrophenol | NA | NA | -- | 63.2 U | 60.9 U | 62.5 U | 63.2 U | 60.9 U |
| | 2,4-Dinitrotoluene | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10623 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/27/09 | 8/4/09 | 10/13/09 | 1/21/10 | 1/21/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 2-Chloronaphthalene | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 2-Chlorophenol | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 2-Nitroaniline | NA | NA | -- | 52.6 U | 50.8 U | 52.1 U | 52.6 U | 50.8 U |
| | 2-Nitrophenol | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 3,3´-Dichlorobenzidine | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 3-Nitroaniline | NA | NA | -- | 52.6 U | 50.8 U | 52.1 U | 52.6 U | 50.8 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | -- | 63.2 U | 60.9 U | 62.5 U | 63.2 U | 60.9 U |
| | 4-Bromophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 4-Chloro-3-methylphenol | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 4-Chloroaniline | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 4-Nitroaniline | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | 4-Nitrophenol | NA | NA | -- | 52.6 U | 50.8 U | 52.1 U | 52.6 U | 50.8 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | -- | 158 U | R | 156 U | 158 U | 152 U |
| | Benzoic acid | NA | NA | -- | 63.2 U | 60.9 U | R | 63.2 U | 60.9 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Bis(2-chloroethyl)ether | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | -- | 10.5 U | 10 J | 10.4 U | 15.5 | 10.2 U |
| | Butyl benzyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Diethyl phthalate | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Dimethyl phthalate | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Di-n-butyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 1.5 J |
| | Di-n-octyl phthalate | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | Hexachlorobenzene | NA | 1.0 | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Hexachlorocyclopentadiene | NA | 50 | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Hexachloroethane | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | N-Nitrosodi-n-propylamine | NA | NA | -- | 21 U | 20.3 U | 20.8 U | 21 U | 20.3 U |
| | N-Nitrosodiphenylamine | NA | NA | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 10.2 U |
| | Pentachlorophenol | NA | 1.0 | -- | 63.2 U | 60.9 U | 62.5 U | 63.2 U | 60.9 U |
| | Phenol | NA | 5.0 * | -- | 10.5 U | 10.2 U | 10.4 U | 10.5 U | 1.9 J |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10623 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/27/09 | 8/4/09 | 10/13/09 | 1/21/10 | 1/21/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | -- | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | -- | 0.32 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U |
| | Benz(a)anthracene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | -- | 0.16 U | 0.15 U | 0.16 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | -- | 0.32 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U |
| | Fluoranthene | NA | NA | -- | 0.42 U | 0.41 U | 0.42 U | 0.42 U | 0.41 U |
| | Fluorene | NA | NA | -- | 0.32 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | -- | 1 U | 0.12 J | 1 U | 1 U | 0.3 J |
| | Phenanthrene | NA | NA | -- | 1 U | 0.31 U | 0.32 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | -- | 0.21 U | 0.2 U | 0.21 U | 0.21 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | -- | -- | -- | 35.2 |
| | Calcuim (dissolved) | | | | | | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | -- | -- | -- | 0.1 U |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | - - |
| | Lead | 0.01 | 0.015 | -- | | -- | -- | -- | 0.00475 J |
| | Lead (dissolved) | | | | | | | | - - |
| | Magnesium | NA | NA | -- | | -- | -- | -- | 4.82 |
| | Magnesium (dissolved) | | | | | | | | - - |
| | Manganese | NA | 0.05 (s) | -- | | -- | -- | -- | 0.00261 J |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.0113 | 0.00266 J | 0.00873 J | 0.00832 J | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | -- | -- | -- | 2.32 |
| | Potassium (dissolved) | | | | | | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10623 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6/27/09 | 8/4/09 | 10/13/09 | 1/21/10 | 1/21/10 | 4/26/10 |
| | | | | PostDevelop | Q309 | Q409 | Q110 | Q110Dup | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | -- | -- | -- | |
| | Sodium (dissolved) | | | | | | | | - - |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | 10 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | -- | 10 U | 0.087 J | 0.046 J | 0.1362 | 0.17 J |
| | Sulfate | NA | 250 (s) | -- | 29 | 33 | 29.3 | 29.5 | 29.4 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | 120 | 118 | 115 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | 0.5 U | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | 120 | 118 | 115 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10624 | | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8/11/09 | 10/19/09 | 1/22/10 | 4/27/10 | PostDevelop | 1/21/10 | 4/16/10 |
| | | | | Q309 | Q409 | Q110 | Q210 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.3 J | 0.32 U | 0.110 J | 460 | 60 J | 0.26 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.084 | 0.050 J | 0.055 J | 160 | 10 J | 0.064 U | 200 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 0.65 J | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | **0.055** | 0.02 | **0.13** | **0.06** | **0.059** | 0.027 J |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 0.26 J | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 0.32 J | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 1 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 11.4 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1.3 | 0.58 J | **6.2** | 1.4 | 1 U | 0.29 J | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 0.46 J | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 0.26 J | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10624 | | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8/11/09 | 10/19/09 | 1/22/10 | 4/27/10 | PostDevelop | 1/21/10 | 4/16/10 |
| | | | | Q309 | Q409 | Q110 | Q210 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1.1 | 1 U | 1 U | 0.27 J | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 0.18 J | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 0.24 J | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 0.12 J | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 39 | 22.6 | 6 | 75.1 | 4.4 | 0.63 J | 91.8 |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 1 U | 2 U | 2.7 | 2 U | 2 U | 0.55 J | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 1 U | 3 U | 3.7 | 3 U | 3 U | 0.55 J | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 2,4-Dichlorophenol | NA | NA | -- | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 2,4-Dimethylphenol | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 2,4-Dinitrophenol | NA | NA | 63.2 U | 61.8 U | 63.8 U | 60.6 U | -- | 61.8 U | 63.5 U |
| | 2,4-Dinitrotoluene | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-10624 | | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8/11/09 | 10/19/09 | 1/22/10 | 4/27/10 | PostDevelop | 1/21/10 | 4/16/10 |
| | | | | Q309 | Q409 | Q110 | Q210 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 2-Chloronaphthalene | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 2-Chlorophenol | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 4.9 J |
| | 2-Nitroaniline | NA | NA | 52.6 U | 51.5 U | 53.2 U | 50.5 U | -- | 51.5 U | 52.9 U |
| | 2-Nitrophenol | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 3,4-Methylphenol | NA | NA | -- | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 3-Nitroaniline | NA | NA | 52.6 U | 51.5 U | 53.2 U | 50.5 U | -- | 51.5 U | 52.9 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.2 U | 61.8 U | 63.8 U | 60.6 U | -- | 61.8 U | 63.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 4-Chloroaniline | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 4-Nitroaniline | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | 4-Nitrophenol | NA | NA | 52.6 U | 51.5 U | 53.2 U | 50.5 U | -- | 51.5 U | 52.9 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 158 U | R | 160 U | 152 R | -- | 155 U | 159 U |
| | Benzoic acid | NA | NA | 63.2 U | 61.8 U | 63.8 U | 60.6 U | -- | 61.8 U | 63.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Butyl benzyl phthalate | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Diethyl phthalate | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Dimethyl phthalate | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Di-n-butyl phthalate | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | Di-n-octyl phthalate | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | Hexachlorobenzene | NA | 1.0 | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Hexachloroethane | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21 U | 20.6 U | 21.3 U | 20.2 U | -- | 20.6 U | 21.2 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.5 U | 10.3 U | 10.6 U | 10.1 U | -- | 10.3 U | 10.6 U |
| | Pentachlorophenol | NA | 1.0 | 63.2 U | 61.8 U | 63.8 U | 60.6 U | -- | 61.8 U | 63.5 U |
| | Phenol | NA | 5.0 * | 10.5 U | 10.3 U | 10.6 U | 3.7 J | -- | 10.3 U | 10.6 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10624 | | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8/11/09 | 10/19/09 | 1/22/10 | 4/27/10 | PostDevelop | 1/21/10 | 4/16/10 |
| | | | | Q309 | Q409 | Q110 | Q210 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 0.083 J | 0.066 J | -- | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 0.12 J | 1 U | -- | 1 U | 1 U |
| | Acenaphthene | NA | NA | 0.15 J | 1 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Anthracene | NA | NA | 0.32 U | 0.32 U | 0.31 U | 0.013 J | -- | 0.31 U | 0.33 |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.16 U | 0.16 U | 0.15 U | 0.15 U | -- | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.32 U | 0.32 U | 0.31 U | 0.3 U | -- | 0.31 U | 0.33 J |
| | Fluoranthene | NA | NA | 0.42 U | 0.42 U | 0.41 U | 0.048 J | -- | 0.42 U | 0.12 J |
| | Fluorene | NA | NA | 0.32 U | 0.32 U | 0.31 U | 0.3 U | -- | 0.31 U | 0.24 J |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 0.13 J | 0.2 J | 1 U | 1.6 | -- | 1 U | 1 U |
| | Phenanthrene | NA | NA | 1 U | 0.32 U | 0.31 U | 0.3 U | -- | 0.31 U | 0.046 J |
| | Pyrene | NA | NA | 0.21 U | 0.21 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | | -- | -- | 62.1 | -- | -- | 38.9 |
| | Calcuim (dissolved) | | | | | | - - | | | - - |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | | -- | -- | 0.108 U | -- | -- | 0.128 U |
| | Iron (dissolved) | NA | 0.3 (s) | 0.0597 J | 0.386 | 0.67 | - - | -- | 0.1 U | - - |
| | Lead | 0.01 | 0.015 | | -- | -- | 0.00447 J | -- | -- | 0.015 U |
| | Lead (dissolved) | | | | | | - - | | | - - |
| | Magnesium | NA | NA | | -- | -- | 10.5 | -- | -- | 5.75 |
| | Magnesium (dissolved) | | | | | | - - | | | - - |
| | Manganese | NA | 0.05 (s) | | -- | -- | **1.34** | -- | -- | 0.0105 |
| | Manganese (dissolved) | NA | 0.05 (s) | **0.294** | **0.58** | **0.803** | - - | -- | 0.00508 J | - - |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | | -- | -- | 3.32 J | -- | -- | 2.45 |
| | Potassium (dissolved) | | | | | | - - | | | - - |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10624 | | | | Well KAFB-10625 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8/11/09 | 10/19/09 | 1/22/10 | 4/27/10 | PostDevelop | 1/21/10 | 4/16/10 |
| | | | | Q309 | Q409 | Q110 | Q210 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | | -- | -- | **29.4** | -- | -- | **25.3** |
| | Sodium (dissolved) | | | | | | **- -** | | | **- -** |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | 35.7 | -- | -- | 12.3 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 10 U | 0.1 U | 0.1 U | 1 U | -- | 0.2159 | 0.18 J |
| | Sulfate | NA | 250 (s) | 31.8 | 18.5 | 14.4 | 53.5 | -- | 52 | 45.8 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | 148 | 150 | -- | 114 | 108 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | 0.5 U | 0 | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | 148 | 150 | -- | 114 | 108 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10626 | Well KAFB 10627 | Well KAFB 10628 |
|---|---|---|---|---|---|---|
| | | | | 4/27/10 | 5/5/10 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 390 | 86 J | 38800 |
| | MRO | NA | NA | -- | -- | -- |
| | GRO | NA | NA | 64 U | 17 J | 40100 |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 50 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 50 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 50 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 50 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 50 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 50 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 50 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 61 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 76 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 50 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 335 |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 250 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.0195 U | 0.0199 U | 170 |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 50 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 50 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 50 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 114 |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 50 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 50 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 50 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 250 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 675 J |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 50 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 236 J |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 50 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 50 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 165 J |
| | Acetone | NA | NA | 10 U | 2.2 J | 2900 J |
| | Benzene | NA | 5.0 | 1 U | 1 U | **3990** |
| | Bromobenzene | NA | NA | 1 U | 1 U | 50 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 50 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 50 U |
| | Bromoform | NA | NA | 1 U | 1 U | 50 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 100 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 100 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 50 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 50 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 100 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 50 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 100 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 50 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 50 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10626 | Well KAFB 10627 | Well KAFB 10628 |
|---|---|---|---|---|---|---|
| | | | | 4/27/10 | 5/5/10 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 50 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 53 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 100 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | **1230** |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 50 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 103 |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 250 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 250 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 25.6 J |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 120 |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 21.6 J |
| | Styrene | NA | 100 | 1 U | 1 U | 50 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 50 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 50 U |
| | Toluene | NA | 750 * | 2.7 | 9.9 | **11500** |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 50 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 50 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 50 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 100 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 50 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 2410 |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1030 |
| | Xylenes, Total | NA | 620 * | 3 U | 3 U | **3440** |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.5 U | 10.4 U | **- -** |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 21 U | 20.7 U | 1100 U |
| | 2,4,6-Trichlorophenol | NA | NA | 21 U | 20.7 U | 1100 U |
| | 2,4-Dichlorophenol | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 2,4-Dimethylphenol | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 2,4-Dinitrophenol | NA | NA | 63.2 U | 62.2 U | 3300 U |
| | 2,4-Dinitrotoluene | NA | NA | 21 U | 20.7 U | 1100 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10626 | Well KAFB 10627 | Well KAFB 10628 |
|---|---|---|---|---|---|---|
| | | | | 4/27/10 | 5/5/10 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 21 U | 20.7 U | 1100 U |
| | 2-Chloronaphthalene | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 2-Chlorophenol | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 2-Nitroaniline | NA | NA | 52.6 U | 51.8 U | 2750 U |
| | 2-Nitrophenol | NA | NA | 21 U | 20.7 U | 1100 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 21 U | 20.7 U | 1100 U |
| | 3,4-Methylphenol | NA | NA | 21 U | 20.7 U | 1100 U |
| | 3-Nitroaniline | NA | NA | 52.6 U | 51.8 U | 2750 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 63.2 U | 62.2 U | 3300 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 4-Chloro-3-methylphenol | NA | NA | 21 U | 20.7 U | 1100 U |
| | 4-Chloroaniline | NA | NA | 21 U | 20.7 U | 1100 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 4-Nitroaniline | NA | NA | 10.5 U | 10.4 U | 549 U |
| | 4-Nitrophenol | NA | NA | 52.6 U | 51.8 U | 2750 U |
| | Aniline | NA | NA | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- |
| | Benzidine | NA | NA | 158 U | 155 U | 8240 U |
| | Benzoic acid | NA | NA | 63.2 U | 62.2 U | 3300 U |
| | Benzyl alcohol | NA | NA | | | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Butyl benzyl phthalate | NA | NA | 21 U | 20.7 U | 1100 U |
| | Carbazole | NA | NA | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Diethyl phthalate | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Dimethyl phthalate | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Di-n-butyl phthalate | NA | NA | 21 U | 20.7 U | 1100 U |
| | Di-n-octyl phthalate | NA | NA | 21 U | 20.7 U | 1100 U |
| | Hexachlorobenzene | NA | 1.0 | 10.5 U | 10.4 U | 549 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.5 U | 10.4 U | 549 U |
| | Hexachloroethane | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- |
| | Nitrobenzene | NA | NA | 21 U | 20.7 U | 1100 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 21 U | 20.7 U | 1100 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.5 U | 10.4 U | 549 U |
| | Pentachlorophenol | NA | 1.0 | 63.2 U | 62.2 U | 3300 U |
| | Phenol | NA | 5.0 * | 10.5 U | 10.4 U | 549 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10626 | Well KAFB 10627 | Well KAFB 10628 |
|---|---|---|---|---|---|---|
| | | | | 4/27/10 | 5/5/10 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 0.11 J | 1 U | **122** |
| | 2-Methylnaphthalene | NA | 30* [g] | 0.11 J | 1 U | **146** |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 0.03 J | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.087 J | 0.062 J | 0.33 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| | Benzo(k)fluoranthene | NA | NA | 0.15 U | 0.15 U | 0.16 U |
| | Chrysene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.31 U | 0.33 U |
| | Fluoranthene | NA | NA | 0.1 J | 0.039 J | 0.43 U |
| | Fluorene | NA | NA | 0.31 U | 0.31 U | 0.33 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | **174** |
| | Phenanthrene | NA | NA | 0.054 J | 0.05 J | 0.33 U |
| | Pyrene | NA | NA | 0.21 U | 0.21 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- |
| | Calcium | NA | NA | 63.1 | -- | - - |
| | Calcuim (dissolved) | | | - - | -- | 51.8 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- |
| | Iron | NA | 0.3 (s) | 0.1 U | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | - - | -- | 0.1 U |
| | Lead | 0.01 | 0.015 | 0.015 U | -- | - - |
| | Lead (dissolved) | | | - - | -- | 0.015 U |
| | Magnesium | NA | NA | 9.42 | -- | - - |
| | Magnesium (dissolved) | | | - - | -- | 7.72 |
| | Manganese | NA | 0.05 (s) | **0.484** | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | - - | -- | **0.574** |
| | Nickel | 0.028 | NA | -- | -- | -- |
| | Potassium | NA | NA | 6.32 | -- | - - |
| | Potassium (dissolved) | | | - - | -- | 3.34 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-10626 | Well KAFB 10627 | Well KAFB 10628 |
|---|---|---|---|---|---|---|
| | | | | 4/27/10 | 5/5/10 | 6/14/10 |
| | | | | Q210 | Q210 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- |
| | Sodium | NA | NA | 37.1 | -- | - - |
| | Sodium (dissolved) | | | - - | -- | 27.3 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- |
| | Chloride | NA | 250 (s) | 66.9 | -- | 13.9 |
| | Bromide | NA | NA | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 2.2 J | -- | 1 U |
| | Sulfate | NA | 250 (s) | 73.6 | -- | 37.2 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | 101 | -- | 162 |
| | Carbonate $CO3^{2-}$ | NA | NA | 0 | -- | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | 101 | -- | 162 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-3411 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 4/27/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/14/10 | 5/3/10 |
| | | | | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.26 U | 0.27 U | 0.070 J | 0.099 J | 0.26 U | 0.074 J | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.35 | 0.40 J | 0.38 J | 0.047 J | 0.012 J | 0.064 U | 17 J |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.0197 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 0.2 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-3411 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 4/27/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/14/10 | 5/3/10 |
| | | | | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.6 | 1.7 | 1.6 | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 0.31 J | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 1 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 1 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | -- | -- | -- | -- | 10.5 U | 10.4 U | 10.4 U |
| | 1,3-Dinitrobenzene | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 2,4-Dichlorophenol | NA | NA | -- | -- | -- | -- | 10.5 U | 10.4 U | 10.4 U |
| | 2,4-Dimethylphenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 2,4-Dinitrophenol | NA | NA | 61.8 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 62.2 U | 62.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | Well KAFB-3411 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 4/27/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/14/10 | 5/3/10 |
| | | | | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 2-Chloronaphthalene | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 2-Chlorophenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 2-Nitroaniline | NA | NA | 51.5 U | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.8 U | 51.8 U |
| | 2-Nitrophenol | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 3,4-Methylphenol | NA | NA | -- | -- | -- | -- | 21 U | 20.7 U | 20.7 U |
| | 3-Nitroaniline | NA | NA | 51.5 U | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.8 U | 51.8 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 61.8 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 62.2 U | 62.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 4-Chloroaniline | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 4-Nitroaniline | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | 4-Nitrophenol | NA | NA | 51.5 J | 52.6 U | 52.6 U | 52.6 U | 52.6 U | 51.8 U | 51.8 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 155 U | 158 U | 158 U | 158 U | R | 155 U | 155 U |
| | Benzoic acid | NA | NA | 61.8 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 62.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10.3 U | 11.3 | 6.6 J | 10.5 U | 10.5 U | 11.8 J | 10.4 U |
| | Butyl benzyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Diethyl phthalate | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Dimethyl phthalate | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Di-n-butyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | Di-n-octyl phthalate | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | Hexachlorobenzene | NA | 1.0 | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Hexachloroethane | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20.6 U | 21 U | 21 U | 21 U | 21 U | 20.7 U | 20.7 U |
| | N-Nitrosodiphenylamine | NA | NA | 10.3 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |
| | Pentachlorophenol | NA | 1.0 | 61.8 U | 63.2 U | 63.2 U | 63.2 U | 63.2 U | 62.2 U | 62.2 U |
| | Phenol | NA | 5.0 * | **10.3 J** | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.4 U | 10.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-3411 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 4/27/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/14/10 | 5/3/10 |
| | | | | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 0.046 J | 0.044 J | 1 U | 1 U | 1 U | 1.1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Benz(a)anthracene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.16 U |
| | Chrysene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Fluoranthene | NA | NA | 0.41 U | 0.42 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.42 U |
| | Fluorene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Phenanthrene | NA | NA | 0.31 U | 0.32 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Pyrene | NA | NA | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.21 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | | | | -- | -- | **- -** |
| | Calcuim (dissolved) | | | | | | | | | 42.6 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | | | | -- | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | | | | -- | -- | - - |
| | Lead (dissolved) | | | | | | | | | 0.015 U |
| | Magnesium | NA | NA | -- | | | | -- | -- | - - |
| | Magnesium (dissolved) | | | | | | | | | 6.7 |
| | Manganese | NA | 0.05 (s) | -- | | | | -- | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | **0.208** | **0.187** | **0.186** | 0.0227 | **0.146** | **0.0569** | 0.0325 |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | | | | -- | -- | - - |
| | Potassium (dissolved) | | | | | | | | | 2.5 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | Well KAFB-3411 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20/09 | 4/27/09 | 4/27/09 | 7/23/09 | 10/12/09 | 1/14/10 | 5/3/10 |
| | | | | Q109 | Q209Dup | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | | | | -- | -- | - - |
| | Sodium (dissolved) | | | | | | | | | 24.1 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 11.6 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.0327 J | 0.027 J | 10 U | 0.21 J | 0.098 J | 0.0969 J | 0.22 J |
| | Sulfate | NA | 250 (s) | 40.7 | 41.2 | 41.3 | 34.8 | 34.5 | 40.5 | 31.2 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 144 | 138 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 144 | 138 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/31/06 | 1/23/07 | 4/17/07 | 7/17/07 | 10/10/07 | 1/30/08 | 4/23/08 | 7/9/08 |
| | | | | Q106 | Q107 | Q207 | Q307 | Q407 | Q108 | Q208 | Q308 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 1.0 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | -- |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.05 U | 0.025 U | 0.025 U | 25 U | 0.025 U | 0.0098 U | 0.0059 U | -- |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichloropropane | NA | NA | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 UJ | 1 UJ | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 0.01 UJ | 0.02 U | 0.02 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.01 UJ | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 2.0 U | 5.0 U | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 10 U | 6.0 UJ | 6 U | 6 UJ | 6 UJ | 6 U | 6 UJ | 6 U |
| | 2-Chlorotoluene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 10 U | 5.0 U | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1.0 U | 1.0 U | -- | -- | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 10 U | 5.0 U | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 UJ | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1.0 U | 1.0 U | 0.32 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 10 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 1.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 0.32 J | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | VA Hospital Production Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/31/06 | 1/23/07 | 4/17/07 | 7/17/07 | 10/10/07 | 1/30/08 | 4/23/08 | 7/9/08 |
| | | | | Q106 | Q107 | Q207 | Q307 | Q407 | Q108 | Q208 | Q308 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dichlorodifluoromethane | NA | NA | 1.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 2 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 1.5 U | 5.0 U | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 3.0 U | 5.0 U | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 2.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 UJ | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 1.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1.0 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | -- | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | -- | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 3.0 U | 2.0 U | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | -- | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | -- | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 10 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 2,4,6-Trichlorophenol | NA | NA | 15 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 2,4-Dinitrophenol | NA | NA | 50 U | 50 U | 60 U | 60 U | 60 UJ | 60 U | 60 U | 60 U |
| | 2,4-Dinitrotoluene | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/31/06 | 1/23/07 | 4/17/07 | 7/17/07 | 10/10/07 | 1/30/08 | 4/23/08 | 7/9/08 |
| | | | | Q106 | Q107 | Q207 | Q307 | Q407 | Q108 | Q208 | Q308 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 15 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 1 U | 10 U |
| | 2-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 50 U | 50 UJ | 50 U | 10 U | 50 U |
| | 2-Nitrophenol | NA | NA | 15 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 50 U | 20 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 15 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 3,4-Methylphenol | NA | NA | 20 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 3-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 50 U | 50 UJ | 50 U | 20 U | 50 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 50 U | 50 U | 60 U | 60 U | 60 UJ | 60 U | 50 U | 60 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 60 U | 10 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 10 U | 20 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 15 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 20 U | 10 U |
| | 4-Nitroaniline | NA | NA | 20 U | 50 U | 50 U | 50 U | 50 UJ | 50 U | 10 U | 50 U |
| | 4-Nitrophenol | NA | NA | 50 U | 50 U | 50 U | 50 U | 50 UJ | 50 UJ | 50 U | 50 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | --- | 150 UJ | 150 U | 150 U | 150 UJ | 150 U | 150 U | 150 U |
| | Benzoic acid | NA | NA | 50 U | 60 U | 60 U | 60 U | 60 UJ | 60 U | 60 U | 60 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Bis(2-chloroethyl)ether | NA | NA | 15 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 15 U | 2.5 J | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Butyl benzyl phthalate | NA | NA | 15 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Diethyl phthalate | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | Dimethyl phthalate | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | Di-n-butyl phthalate | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | Di-n-octyl phthalate | NA | NA | 15 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 UJ |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 10 U | 10 U | 20 U | 20 U | 20 UJ | 20 U | 20 U | 20 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |
| | Pentachlorophenol | NA | 1.0 | 50 U | 50 U | 60 U | 60 U | 60 UJ | 60 U | 60 U | 60 U |
| | Phenol | NA | 5.0 * | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/31/06 | 1/23/07 | 4/17/07 | 7/17/07 | 10/10/07 | 1/30/08 | 4/23/08 | 7/9/08 |
| | | | | Q106 | Q107 | Q207 | Q307 | Q407 | Q108 | Q208 | Q308 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 2.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | -- | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 2.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | -- | 1 U |
| | Acenaphthene | NA | NA | 2.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 2.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.02 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Benz(a)anthracene | NA | NA | 0.02 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.02 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.05 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.03 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.02 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.04 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Fluoranthene | NA | NA | 0.3 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| | Fluorene | NA | NA | 0.04 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.08 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 2.5 U | 1.0 U | 1.0 U | 1 U | 1 U | 1 U | -- | 1 U |
| | Phenanthrene | NA | NA | 0.02 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Pyrene | NA | NA | 0.3 U | 0.2 U | 0.2 U | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcuim (dissolved) | | | | | | | | | | |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron (dissolved) | NA | 0.3 (s) | 0.045 | 0.1 U | 100 U | 100 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Lead (dissolved) | | | | | | | | | | |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Magnesium (dissolved) | | | | | | | | | | |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.0026 | 0.01 U | **3.3 J** | 10 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium (dissolved) | | | | | | | | | | |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | VA Hospital Production Well | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/31/06 | 1/23/07 | 4/17/07 | 7/17/07 | 10/10/07 | 1/30/08 | 4/23/08 | 7/9/08 |
| | | | | Q106 | Q107 | Q207 | Q307 | Q407 | Q108 | Q208 | Q308 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium (dissolved) | | | | | | | | | | |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.23 | 0.17 J | 0.5 J | 0.5 U | 0.27 J | 0.19 J | 0.12 J | 0.23 J |
| | Sulfate | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | -- |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 7/9/08 | 8/26/08 | 10/28/08 | 10/28/08 | -- | 7/22/09 | 10/8/09 | 1/14/09 | 5/6/10 |
| | | | | DUPQ308 | Q308 | Q408 | Q408-DUP | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | -- | -- | 0.25 U | 0.25 U | -- | 0.25 U | 0.26 U | 0.26 U | 260 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | -- | -- | 0.012 U | 0.06 U | -- | 0.064 U | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | 0.02 U | 1 U | 1 U | -- | 0.02 U | 0.02 U | 0.02 U | 0.0198 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 6 U | 6 U | -- | 1 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 0.49 J | 0.5 J | -- | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | VA Hospital Production Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 7/9/08 | 8/26/08 | 10/28/08 | 10/28/08 | -- | 7/22/09 | 10/8/09 | 1/14/09 | 5/6/10 |
| | | | | DUPQ308 | Q308 | Q408 | Q408-DUP | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 0.18 J | -- | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | -- | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 2 U | 2 U | -- | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 2 U | 2 U | 2 U | -- | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | -- | 12.2 U | 10.2 U | 10.2 U |
| | 1,3-Dinitrobenzene | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | -- | 12.2 U | 10.2 U | 10.2 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 60 U | 60 U | 60 U | -- | 63.2 U | 73.2 U | 61.5 U | 61.2 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 7/9/08 | 8/26/08 | 10/28/08 | 10/28/08 | -- | 7/22/09 | 10/8/09 | 1/14/09 | 5/6/10 |
| | | | | DUPQ308 | Q308 | Q408 | Q408-DUP | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 2-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 50 U | -- | 52.6 U | 61 U | 51.3 U | 51 U |
| | 2-Nitrophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 3,4-Methylphenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | -- | 24.4 U | 20.5 U | 20.4 U |
| | 3-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 50 U | -- | 52.6 U | 61 U | 51.3 U | 51 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | 60 U | 60 U | 60 U | -- | 63.2 U | 73.2 U | 61.5 U | 61.2 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 4-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 50 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | 4-Nitrophenol | NA | NA | 50 U | 50 U | 50 U | 50 U | -- | 52.6 U | 61 U | 51.3 U | 51 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 U | 150 U | 150 U | 150 U | -- | 158 U | R | 154 U | 153 U |
| | Benzoic acid | NA | NA | 60 U | 60 U | 60 U | 60 U | -- | 63.2 U | 73.2 U | 65.2 U | 61.2 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 2.2 J | 10 U | 10 U | 10 U | -- | 10.5 U | 9 J | 10.2 U | 10.2 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Diethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Dimethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 10 J | 20.5 U | 20.4 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 UJ | 10 UJ | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | 21 U | 24.4 U | 20.5 U | 20.4 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 60 U | 60 U | 60 U | -- | 63.2 U | 73.2 U | 61.5 U | 61.2 U |
| | Phenol | NA | 5.0 * | 10 U | 10 U | 10 U | 10 U | -- | 10.5 U | 12.2 U | 10.2 U | 10.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | VA Hospital Production Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 7/9/08 | 8/26/08 | 10/28/08 | 10/28/08 | -- | 7/22/09 | 10/8/09 | 1/14/09 | 5/6/10 |
| | | | | DUPQ308 | Q308 | Q408 | Q408-DUP | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | -- | 0.32 U | 0.32 U | 0.31 U | 0.014 J |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.1 U | 0.1 U | -- | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | -- | 0.32 U | 0.32 U | 0.31 U | 0.31 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.4 U | 0.4 U | 0.4 U | -- | 0.42 U | 0.42 U | 0.41 U | 0.41 U |
| | Fluorene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | -- | 0.32 U | 0.32 U | 0.31 U | 0.31 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | -- | 1 U | 0.32 U | 0.31 U | 0.31 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | -- | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | -- | -- | | -- | -- | **- -** |
| | Calcuim (dissolved) | | | | | | | | | | | 37.1 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | | -- | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | -- | -- | -- | **0.715 J** | 0.1 U | 0.0549 J | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | | -- | -- | - - |
| | Lead (dissolved) | | | | | | | | | | | 0.0052 J |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | | -- | -- | - - |
| | Magnesium (dissolved) | | | | | | | | | | | 7.42 |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | | -- | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.01 U | 0.00047 J | -- | -- | -- | 0.000503 J | 0.01 U | 0.00114 J | 0.0176 |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | | -- | -- | - - |
| | Potassium (dissolved) | | | | | | | | | | | 3.87 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | VA Hospital Production Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 7/9/08 | 8/26/08 | 10/28/08 | 10/28/08 | -- | 7/22/09 | 10/8/09 | 1/14/09 | 5/6/10 |
| | | | | DUPQ308 | Q308 | Q408 | Q408-DUP | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | | -- | -- | **- -** |
| | Sodium (dissolved) | | | | | | | | | | | 23.2 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | -- | 30.2 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.24 J | 0.23 J | 0.23 J | 0.23 J | -- | 0.32 J | 0.33 J | 0.066 J | 1 U |
| | Sulfate | NA | 250 (s) | -- | -- | -- | -- | -- | 30.4 | 31.1 | 25.2 | 25.3 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | -- | 98 | 150 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | 98 | 150 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-03 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/22/08 | 7/7/08 | 8/26/08 | 10/29/08 | 1/27/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q208 | Q308 | Q308 | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | -- | -- | 0.25 U | 0.17 J | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 270 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.0025 U | -- | -- | 0.09 U | 0.06 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | 0.02 U | 0.02 U | 1 U | 1 U | 0.01 U | 0.01 U | 0.02 U | 0.0199 U | 0.01990 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 UJ | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 3 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.26 J |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-03 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/22/08 | 7/7/08 | 8/26/08 | 10/29/08 | 1/27/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q208 | Q308 | Q308 | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.36 J |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 2 U | 2 U | 2 U | 3 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | -- | -- | 10.5 U | 11.1 U | 11 U |
| | 1,3-Dinitrobenzene | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | -- | -- | -- | 10.5 U | 11.1 U | 11 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 60 U | 60 U | 60 U | 61.5 U | 63.2 U | 63.2 U | 63.2 U | 66.7 U | 65.9 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-03 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/22/08 | 7/7/08 | 8/26/08 | 10/29/08 | 1/27/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q208 | Q308 | Q308 | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 1 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 2-Nitroaniline | NA | NA | 10 U | 50 U | 50 U | 50 U | 51.3 U | 52.6 U | 52.6 U | 52.6 U | 55.6 U | 54.9 U |
| | 2-Nitrophenol | NA | NA | 50 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 3,4-Methylphenol | NA | NA | 20 U | 20 U | 20 U | 20 U | -- | -- | -- | 21 U | 22.2 U | 22 U |
| | 3-Nitroaniline | NA | NA | 20 U | 50 U | 50 U | 50 U | 51.3 U | 52.6 U | 52.6 U | 52.6 U | 55.6 U | 54.9 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 50 U | 60 U | 60 U | 60 U | 61.5 U | 63.2 U | 63.2 U | 63.2 U | 66.7 U | 65.9 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 60 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 4-Chloro-3-methylphenol | NA | NA | 10 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 20 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 4-Nitroaniline | NA | NA | 10 U | 50 U | 50 U | 50 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | 4-Nitrophenol | NA | NA | 50 U | 50 U | 50 U | 50 U | 51.3 U | 52.6 U | 52.6 U | 52.6 U | 55.6 U | 54.9 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 U | 150 U | 150 U | 150 U | 154 U | 158 U | 158 U | R | 167 U | 165 U |
| | Benzoic acid | NA | NA | 60 U | 60 UJ | 60 UJ | 60 U | 61.5 U | 63.2 U | 63.2 U | 63.2 U | 61.8 U | 65.9 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10 U | 10 U | 10 U | 0.61 J | 6.2 J | 10.5 U | 16.8 | 10.5 U | 11.1 U | 11 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Diethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Dimethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10 UJ | 10 UJ | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20.5 U | 21 U | 21 U | 21 U | 22.2 U | 22 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 60 U | 60 U | 60 U | 61.5 U | 63.2 U | 63.2 U | 63.2 U | 66.7 U | 65.9 U |
| | Phenol | NA | 5.0 * | 10 U | 10 U | 10 U | 10 U | 10.2 U | 10.5 U | 10.5 U | 10.5 U | 11.1 U | 11 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-03 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/22/08 | 7/7/08 | 8/26/08 | 10/29/08 | 1/27/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q208 | Q308 | Q308 | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.33 U | 0.32 U | 0.016 J |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.15 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.33 U | 0.32 U | 0.32 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.41 U | 0.42 U | 0.42 U | 0.44 U | 0.42 U | 0.42 U |
| | Fluorene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.33 U | 0.32 U | 0.32 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| | Naphthalene | NA | 30* [g] | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.33 U | 0.32 U | 0.32 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Calcuim (dissolved) | | | | | | | | | | | | 44.7 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.1 U | 0.1 U | -- | 0.1 U | 0.1 U | 0.0139 J | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Lead (dissolved) | | | | | | | | | | | | 0.015 U |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Magnesium (dissolved) | | | | | | | | | | | | 5.95 |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.01 U | 0.01 U | 0.01 U | -- | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- | - - |
| | Potassium (dissolved) | | | | | | | | | | | | 2.41 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-03 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4/22/08 | 7/7/08 | 8/26/08 | 10/29/08 | 1/27/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q208 | Q308 | Q308 | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | | | -- | -- | **- -** |
| | Sodium (dissolved) | | | | | | | | | | | | 24.3 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 26.2 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.59 | 0.55 | 0.56 | 0.57 J | 0.523 J | 0.6 J | 0.64 J | 0.63 J | 0.3 | 0.57 J |
| | Sulfate | NA | 250 (s) | -- | -- | -- | -- | 35.2 | 36.8 | 36.6 | 36.8 | 24.6 | 35.8 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 108 | 114 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | 108 | 114 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.25 U | 0.25 U | 0.25 U | -- | -- |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.025 UJ | 0.025 U | 0.025 U | 0.0025 U | 0.0058 J | -- |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 0.02 UJ | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5.0 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6.0 UJ | 6 UJ | 6 U | 6 UJ | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 UJ | 10 UJ | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1.0 U | 0.19 J | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dichlorodifluoromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5.0 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | - - | 20 U | 20 U | 20 U | 20 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | - - | 20 U | 20 U | 20 U | 20 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | - - | 10 U | 10 U | 10 U | 10 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | - - | 10 U | 10 U | 10 U | 10 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | - - | 60 U | 60 U | 60 U | 60 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 2-Chlorophenol | NA | NA | 10 U | - - | 10 U | 10 U | 10 U | 10 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | - - | 10 U | 1 U | 10 U | 10 U |
| | 2-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 10 U | 50 U | 50 U |
| | 2-Nitrophenol | NA | NA | 20 U | - - | 20 U | 50 U | 20 U | 20 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 3,4-Methylphenol | NA | NA | 20 U | - - | 20 U | 20 U | 20 U | 20 U |
| | 3-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 20 U | 50 U | 50 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | - - | 60 U | 50 U | 60 U | 60 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 60 U | 10 U | 10 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | - - | 20 U | 10 U | 20 U | 20 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 20 U | 10 U | 10 U |
| | 4-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 10 U | 50 U | 50 U |
| | 4-Nitrophenol | NA | NA | 50 U | - - | 50 UJ | 50 U | 50 U | 50 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 UJ | 150 U | 150 U | 150 U | 150 U | 150 U |
| | Benzoic acid | NA | NA | 60 U | - - | 60 U | 60 U | 60 U | 60 U |
| | Benzyl alcohol | NA | NA | --- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Diethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Dimethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 UJ |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | - - | 60 U | 60 U | 60 U | 60 U |
| | Phenol | NA | 5.0 * | 10 U | - - | 10 U | 10 U | 10 U | 10 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| | Fluorene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | --- | -- | -- | -- | -- | -- |
| | Calcuim (dissolved) | | | | | | | | |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | --- | -- | -- | -- | -- | -- |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.028 J | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | -- |
| | Lead (dissolved) | | | | | | | | |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Magnesium (dissolved) | | | | | | | | |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.022 | 0.024 | 0.018 | 0.022 | 0.018 | 0.024 |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Potassium (dissolved) | | | | | | | | |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Sodium (dissolved) | | | | | | | | |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.5 U | 0.089 J | 0.11 J | 0.5 U | 0.5 U | 0.5 U |
| | Sulfate | NA | 250 (s) | -- | -- | -- | -- | -- | -- |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.12 J | 0.26 U | 0.26 U | 0.26 U | 0.24 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.025 U | 0.06 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1 U | 1.2 UJ | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1 U | 1.5 UJ | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 UJ | 0.02 U | 0.01 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 UJ | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1 U | 1.1 UJ | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 0.33 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 UJ | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 UJ | 1 U | 1 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 3 UJ | 1 U | 1 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | -- | -- | -- | 10.3 U | 10.1 U |
| | 1,3-Dinitrobenzene | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | -- | -- | -- | 10.3 U | 10.1 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 60.6 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 2-Nitroaniline | NA | NA | 50 U | 51.5 U | 52.6 U | 52.6 U | 51.5 U | 50.5 U |
| | 2-Nitrophenol | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 3,4-Methylphenol | NA | NA | 20 U | -- | -- | -- | 20.6 U | 20.2 U |
| | 3-Nitroaniline | NA | NA | 50 U | 51.5 U | 52.6 U | 52.6 U | 51.5 U | 50.5 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 60.6 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 4-Nitroaniline | NA | NA | 50 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | 4-Nitrophenol | NA | NA | 50 U | 51.5 U | 52.6 U | 52.6 U | 51.5 U | 50.5 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 U | 155 U | 158 U | 158 U | R | 152 U |
| | Benzoic acid | NA | NA | 60 U | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 57.1 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Diethyl phthalate | NA | NA | 20 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Dimethyl phthalate | NA | NA | 20 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Hexachloroethane | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20.6 U | 21 U | 21 U | 20.6 U | 20.2 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 61.8 U | 63.2 U | 63.2 U | 61.8 U | 60.6 U |
| | Phenol | NA | 5.0 * | 10 U | 10.3 U | 10.5 U | 10.5 U | 10.3 U | 10.1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 0.95 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 0.071 J |
| | Acenaphthene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.95 U |
| | Acenaphthylene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 0.95 U |
| | Anthracene | NA | NA | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.28 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.15 U | 0.16 U | 0.16 U | 0.15 U | 0.14 U |
| | Chrysene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.28 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.41 U | 0.42 U | 0.42 U | 0.42 U | 0.38 U |
| | Fluorene | NA | NA | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.28 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.31 U | 0.32 U | 0.32 U | 0.31 U | 0.28 U |
| | Pyrene | NA | NA | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.19 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- |
| | Calcuim (dissolved) | | | | | | | | |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | | | -- | -- |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- |
| | Lead (dissolved) | | | | | | | | |
| | Magnesium | NA | NA | -- | -- | | | -- | -- |
| | Magnesium (dissolved) | | | | | | | | |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.0256 | 0.0248 | 0.0218 | 0.0189 J | 0.0204 |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- |
| | Potassium (dissolved) | | | | | | | | |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-15 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- |
| | Sodium (dissolved) | | | | | | | | |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.5 U | 10 U | 0.03 J | 10 U | 0.11 J | 0.1 U |
| | Sulfate | NA | 250 (s) | -- | 30.8 | 31.6 | 32.2 | 32.2 | 32.6 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 88 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 88 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.25 U | 0.25 U | 0.25 U | -- | -- |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.025 UJ | 0.025 U | 0.025 U | 0.0055 J | -- | -- |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichloropropane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 0.02 UJ | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 0.02 U | 0.02 U | - - | 0.02 U | 0.02 U | 0.02 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5.0 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6.0 UJ | 6 UJ | 6 U | 6 UJ | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 UJ | 2.2 J | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dichlorodifluoromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5.0 U | 5 UJ | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5.0 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2.0 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 1,3-Dinitrobenzene | NA | NA | -- | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 60 U | 60 U | 60 U | 60 U | 60 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | 10 U | 10 U | 1 U | 10 U | 10 U |
| | 2-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 10 U | 50 U | 50 U |
| | 2-Nitrophenol | NA | NA | 20 U | 20 U | 20 U | 50 U | 20 U | 20 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 3,4-Methylphenol | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 3-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 20 U | 50 U | 50 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | 60 U | 60 U | 50 U | 60 U | 60 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 60 U | 10 U | 10 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20 U | 20 U | 10 U | 20 U | 20 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10 U | 10 U | 20 U | 10 U | 10 U |
| | 4-Nitroaniline | NA | NA | 50 U | 50 U | 50 U | 10 U | 50 U | 50 U |
| | 4-Nitrophenol | NA | NA | 50 U | 50 U | 50 UJ | 50 U | 50 U | 50 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 UJ | 150 U | 150 U | 150 U | 150 U | 150 U |
| | Benzoic acid | NA | NA | 60 U | 60 U | 60 U | 60 U | 60 UJ | 60 UJ |
| | Benzyl alcohol | NA | NA | --- | -- | -- | -- | -- | -- |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Diethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Dimethyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 UJ |
| | Hexachloroethane | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 60 U | 60 U | 60 U | 60 U | 60 U |
| | Phenol | NA | 5.0 * | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Acenaphthene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Acenaphthylene | NA | NA | 1.0 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Chrysene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| | Fluorene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| | Naphthalene | NA | 30* [g] | 1.0 U | 1 U | 1 U | -- | 1 U | 1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| | Pyrene | NA | NA | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Calcuim (dissolved) | | | | | | | | |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- |
| | Iron (dissolved) | NA | 0.3 (s) | 0.1 U | 0.24 | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | -- | -- | -- | -- |
| | Lead (dissolved) | | | | | | | | |
| | Magnesium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Magnesium (dissolved) | | | | | | | | |
| | Manganese | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- |
| | Manganese (dissolved) | NA | 0.05 (s) | 0.0072 J | 0.024 | 0.0072 J | 0.0064 J | 0.0072 J | 0.0055 J |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Potassium (dissolved) | | | | | | | | |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-16 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/15/07 | 10/22/07 | 1/30/08 | 4/22/08 | 7/7/08 | 8/26/08 |
| | | | | Q107 | Q407 | Q108 | Q208 | Q308 | Q308 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | -- | -- | -- | -- |
| | Sodium (dissolved) | | | | | | | | |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | Sulfate | NA | 250 (s) | -- | -- | -- | -- | -- | -- |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | -- |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | -- |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | -- |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **TPH** (mg/L) Method 8015B | DRO | NA | NA | 0.25 U | 0.11 J | 0.26 | 0.26 U | 0.26 U | 0.27 U | 270 U |
| | MRO | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | GRO | NA | NA | 0.08 U | 0.06 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 64 U |
| **VOCs** (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | 1,1,1,2-Tetrachloroethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,1-Trichloroethane | NA | 60 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2,2-Tetrachloroethane | NA | 10 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1,2-Trichloroethane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethane | NA | 25 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloroethene | NA | 5.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,1-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,3-Trichlorobenzene | NA | NA | 1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| | 1,2,3-Trichloropropane | NA | NA | 1 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| | 1,2,4-Trichlorobenzene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2,4-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dibromo-3-chloropropane | NA | 0.2 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 1,2-Dibromoethane (EDB) [d] | NA | 0.05 | 1 U | 1 U | 0.02 U | 0.01 U | 0.02 U | 0.02 U | 0.0198 U |
| | 1,2-Dichlorobenzene | NA | 600 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloroethane (EDC) | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,2-Dichloropropane | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3,5-Trimethylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichlorobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,3-Dichloropropane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1,4-Dichlorobenzene | NA | 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,2-Dichloropropane | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Butanone (MEK) | NA | NA | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| | 2-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 2-Hexanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 4-Chlorotoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Isopropyltoluene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4-Methyl-2-pentanone | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Acetone | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| | Benzene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromobenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromodichloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromoform | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Bromomethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon disulfide | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Carbon tetrachloride | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chlorobenzene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloroethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Chloroform | NA | 100 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Chloromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | cis-1,2-Dichloroethene | NA | 70 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | cis-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| VOCs (ug/L) Method 8260 (except EDB and DBCP by method 504.1) | Dibromochloromethane | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Dibromomethane | NA | NA | 1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| | Dichlorodifluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Ethylbenzene | NA | 700 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Hexachlorobutadiene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Isopropylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Methyl tert-butyl ether (MTBE) | NA | NA | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Methylene chloride | NA | 5.0 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | n-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | n-Propylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | sec-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Styrene | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | tert-Butylbenzene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Tetrachloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Toluene | NA | 750 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,2-DCE | NA | 100 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | trans-1,3-Dichloropropene | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichloroethene | NA | 5.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Trichlorofluoromethane | NA | NA | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | Vinyl chloride | NA | 1.0 * | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, m-, p- (sum of isomers) | NA | NA | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U | 2 U |
| | Xylenes, o- (1,2-Dimethylbenzene) | NA | NA | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | Xylenes, Total | NA | 620 * | 2 U | 3 U | 1 U | 1 U | 3 U | 3 U | 3 U |
| **SVOCs** (ug/L) Method 8270 | 1,2,4-Trichlorobenzene | NA | 70 | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,3-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,4-Dichlorobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | 1,2-Diphenylhydrazine | NA | NA | 10 U | -- | -- | -- | 10.6 U | 10.1 U | 10.4 U |
| | 1,3-Dinitrobenzene | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 1-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2,4,5-Trichlorophenol | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 2,4,6-Trichlorophenol | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 2,4-Dichlorophenol | NA | NA | 10 U | -- | -- | -- | 10.6 U | 10.1 U | 10.4 U |
| | 2,4-Dimethylphenol | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 2,4-Dinitrophenol | NA | NA | 60 U | 62.2 U | 63.2 U | 63.2 U | 63.8 U | 60.6 U | 62.5 U |
| | 2,4-Dinitrotoluene | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **SVOCs** (ug/L) Method 8270 | 2,6-Dinitrotoluene | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 2-Chloronaphthalene | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 2-Chlorophenol | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 2-Methylnaphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | 2-Methylphenol | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 2-Nitroaniline | NA | NA | 50 U | 51.8 U | 52.6 U | 52.6 U | 53.2 U | 50.5 U | 52.1 U |
| | 2-Nitrophenol | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 3,3´-Dichlorobenzidine | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 3,4-Methylphenol | NA | NA | 20 U | -- | -- | -- | 21.3 U | 20.2 U | 20.8 U |
| | 3-Nitroaniline | NA | NA | 50 U | 51.8 U | 52.6 U | 52.6 U | 53.2 U | 50.5 U | 52.1 U |
| | 4,6-Dinitro-2-methylphenol | NA | NA | 60 U | 62.2 U | 63.2 U | 63.2 U | 63.8 U | 60.6 U | 62.5 U |
| | 4-Bromophenyl phenyl ether | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 4-Chloro-3-methylphenol | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 4-Chloroaniline | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | 4-Chlorophenyl phenyl ether | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 4-Nitroaniline | NA | NA | 50 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | 4-Nitrophenol | NA | NA | 50 U | 51.8 U | 52.6 U | 52.6 U | 53.2 U | 50.5 U | 52.1 U |
| | Aniline | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Azobenzene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Benzidine | NA | NA | 150 U | 155 U | 158 U | 158 U | R | 152 U | 156 U |
| | Benzoic acid | NA | NA | 60 U | 62.2 U | 63.2 U | 63.2 U | 63.8 U | 61.5 U | 62.5 U |
| | Benzyl alcohol | NA | NA | -- | -- | -- | -- | -- | -- | |
| | Bis(2-chloroethoxy)methane | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Bis(2-chloroethyl)ether | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Bis(2-chloroisopropyl)ether | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Bis(2-ethylhexyl)phthalate | NA | NA | 1.2 J | 24.8 | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Butyl benzyl phthalate | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | Carbazole | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Dibenzofuran | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Diethyl phthalate | NA | NA | 20 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Dimethyl phthalate | NA | NA | 20 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 6.2 J |
| | Di-n-butyl phthalate | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | Di-n-octyl phthalate | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | Hexachlorobenzene | NA | 1.0 | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Hexachlorocyclopentadiene | NA | 50 | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Hexachloroethane | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Hexachlorobutadiene | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Isophorone | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Naphthalene | NA | 30* [g] | -- | -- | -- | -- | -- | -- | -- |
| | N-Nitrosodimethylamine | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrobenzene | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | N-Nitrosodi-n-propylamine | NA | NA | 20 U | 20.7 U | 21 U | 21 U | 21.3 U | 20.2 U | 20.8 U |
| | N-Nitrosodiphenylamine | NA | NA | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |
| | Pentachlorophenol | NA | 1.0 | 60 U | 62.2 U | 63.2 U | 63.2 U | 63.8 U | 60.6 U | 62.5 U |
| | Phenol | NA | 5.0 * | 10 U | 10.4 U | 10.5 U | 10.5 U | 10.6 U | 10.1 U | 10.4 U |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| Chemical Class & Analytical Method [a] | Analyte | NMED Approved Background [b] | EPA MCLs [c] | KAFB-16 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **PAHs** (ug/L) Method 8310 | 1-Methylnaphthalene | NA | 30* [g] | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | 2-Methylnaphthalene | NA | 30* [g] | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Acenaphthylene | NA | NA | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Anthracene | NA | NA | 0.3 U | 0.017 J | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.014 J |
| | Benz(a)anthracene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Benzo(a)pyrene | NA | 0.2 | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Benzo(b)fluoranthene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Benzo(g,h,i)perylene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Benzo(k)fluoranthene | NA | NA | 0.1 U | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.15 U | 0.16 U |
| | Chrysene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Dibenz(a,h)anthracene | NA | NA | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Fluoranthene | NA | NA | 0.4 U | 0.44 U | 0.42 U | 0.42 U | 0.41 U | 0.41 U | 0.43 U |
| | Fluorene | NA | NA | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Indeno(1,2,3-cd)pyrene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| | Naphthalene | NA | 30* [g] | 1 U | 1.1 U | 1 U | 1 U | 1 U | 1 U | 1.1 U |
| | Phenanthrene | NA | NA | 0.3 U | 0.33 U | 0.32 U | 0.32 U | 0.31 U | 0.31 U | 0.32 U |
| | Pyrene | NA | NA | 0.2 U | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U |
| **Metals** (mg/L) Method 6010 | Mercury | 0.002 | 0.05 | -- | -- | -- | -- | -- | -- | -- |
| | Aluminum | NA | 0.05 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Antimony | 0.006 | 0.006 | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | 0.014 | 0.01 | -- | -- | -- | -- | -- | -- | -- |
| | Barium (dissolved) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Barium | 0.12 | 1.0 * | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | 0.004 | 0.004 | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | 0.00047 | 0.005 | -- | -- | -- | -- | -- | -- | -- |
| | Calcium | NA | NA | -- | -- | | | -- | -- | - - |
| | Calcuim (dissolved) | | | | | | | | | 46.1 |
| | Chromium | 0.043 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | 0.0025 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Copper | <0.05 | 1.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Ferrous Iron | NA | 0.3 (s) | -- | -- | -- | -- | -- | -- | -- |
| | Iron | NA | 0.3 (s) | -- | -- | | | -- | -- | - - |
| | Iron (dissolved) | NA | 0.3 (s) | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | Lead | 0.01 | 0.015 | -- | -- | | | -- | -- | - - |
| | Lead (dissolved) | | | | | | | | | 0.015 U |
| | Magnesium | NA | NA | -- | -- | | | -- | -- | - - |
| | Magnesium (dissolved) | | | | | | | | | 5.46 |
| | Manganese | NA | 0.05 (s) | -- | -- | | | -- | -- | - - |
| | Manganese (dissolved) | NA | 0.05 (s) | -- | 0.00796 J | 0.00781 J | 0.00575 J | 0.00518 J | 0.00612 J | 0.00667 J |
| | Nickel | 0.028 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | NA | NA | -- | -- | | | -- | -- | - - |
| | Potassium (dissolved) | | | | | | | | | 3.7 |
| | Selenium | 0.005 | 0.05 | -- | -- | -- | -- | -- | -- | -- |

# Table C-2. Groundwater Historical Data, Bulk Fuels Facility

| **Chemical Class** & Analytical Method [a] | **Analyte** | **NMED Approved Background** [b] | **EPA MCLs** [c] | KAFB-16 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/29/08 | 1/29/09 | 4/28/09 | 7/21/09 | 10/8/09 | 1/12/10 | 5/6/10 |
| | | | | Q408 | Q109 | Q209 | Q309 | Q409 | Q110 | Q210 |
| **Metals** (mg/L) Method 6010 | Silver | <0.01 | 0.05 * | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | NA | NA | -- | -- | | | -- | -- | **- -** |
| | Sodium (dissolved) | | | | | | | | | 29.7 |
| | Thallium | 0.002 | 0.002 | -- | -- | -- | -- | -- | -- | -- |
| | Vanadium | 0.013 | NA | -- | -- | -- | -- | -- | -- | -- |
| | Zinc | 0.26 | 5.0 (s) | -- | -- | -- | -- | -- | -- | -- |
| **Anions** (mg/L) Method 300.0 | Fluoride | NA | 1.6 * | -- | -- | -- | -- | -- | -- | -- |
| | Chloride | NA | 250 (s) | -- | -- | -- | -- | -- | -- | 53 |
| | Bromide | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Orthophosphate (as P) | NA | NA | -- | -- | -- | -- | -- | -- | -- |
| | Nitrite (as N) | $NO_3/NO_2$ 4.0 | 1.0 | -- | -- | -- | -- | -- | -- | -- |
| | Nitrate (as N) | | 10.0 | 0.5 U | 10 U | 10 U | 10 U | 10 U | 0.1 U | 1 U |
| | Sulfate | NA | 250 (s) | -- | 32.3 | 32.3 | 32.8 | 33.3 | 32.5 | 32 |
| **Alkalinity** (mg/L CaCO3) | Total Alkalinity | NA | NA | -- | -- | -- | -- | -- | 96 | 98 |
| | Carbonate $CO3^{2-}$ | NA | NA | -- | -- | -- | -- | -- | 0.5 U | 0 |
| | Bicarbonate $HCO^{3-}$ | NA | NA | -- | -- | -- | -- | -- | 96 | 98 |
| **Field Parameters** [f] | Temperature (degrees C) | | | -- | -- | -- | -- | -- | -- | -- |
| | pH (standard pH units) | | | -- | -- | -- | -- | -- | -- | -- |
| | Conductivity (mS/cm) | | | -- | -- | -- | -- | -- | -- | -- |
| | Dissolved Oxygen (mg/L) | | | -- | -- | -- | -- | -- | -- | -- |
| | Turbidity (NTU) | | | -- | -- | -- | -- | -- | -- | -- |
| | Redox Potential (ORP in mV) | | | -- | -- | -- | -- | -- | -- | -- |

a. EPA analytical methods listed are for the most recent sampling event.

Concentrations exceeding background are shown in *italics* , if applicable.

c. EPA National Primary Drinking Water Standards - Maximum Contaminant Levels (MCLs), or if more stringent, New Mexico Water Quality Control Commission (WQCC) Regulations as denoted by "*". Concentrations exceeding standards shown in **BOLD**.

d. Samples analyzed for EDB using Methods 8260 and 504.1. Table includes only Method 504.1 results because this method has a lower quantitation limit. Shading indicates the analyte was detected.

e/f. not used g. The WQCC regulation for PAHs of 30 mg/L is a total of the concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.

J = Estimated value, concentration is less than PQL but greater than Laboratory MDL.

analyzed.

NR = Not recorded.

U = The analyte was not detected. The associated numerical value is at or below the MDL.

**Table C-3 Groundwater Monitoring Well Information, Kirtland Air Force Base, New Mexico, through June 2010**
**Data Sources: Kirtland Air Force Base Administrative Record and Sandia National Laboratories/New Mexico Groundwater Database**

| Well Number | Kirtland Number[a] | Northing (feet)[b] | Easting (feet)[b] | Ground Surface Elevation (feet) | Measuring Point Elevation (feet)[b] | Datum | Measurement Method | Completion[c] | Status | Date Abandoned | Well Diameter (inches) | Total Depth (feet) | Top of Screen[d] (feet) | Bottom of Screen[d] (feet) | Screen Slot Size (inches) | Geophysical Logging Methods[e] | Geophysical Logging Condition | Drilling Method | Well Material Type | Geologic Log | Geophysical Log | Well Construction Diagram |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KAFB-1061 | ST-106 | 1473582.415 | 1541359.936 | 5341.76 | 5344.41 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 508.5 | 483.0 | 508.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1062 | ST-106 | 1474008.94 | 1541049.712 | 5339.69 | 5342.00 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 505.0 | 479.0 | 504.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1063 | ST-106 | 1474016.957 | 1540417.757 | 5337.4 | 5339.71 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 503.0 | 476.0 | 501.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1064 | ST-106 | 1474358.141 | 1541038.525 | 5343.03 | 5345.68 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 510.0 | 484.0 | 509.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1065 | ST-106 | 1473998.523 | 1541901.521 | 5343.83 | 5347.97 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 507.0 | 479.0 | 504.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1066 | ST-106 | 1473296.182 | 1542158.124 | 5348.49 | 5353.14 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 511.0 | 483.5 | 508.5 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1067 | ST-106 | 1472895.559 | 1542340.132 | 5344.21 | 5349.54 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 511.0 | 484.0 | 509.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1068 | ST-106 | 1473670.325 | 1542178.027 | 5348.66 | 5353.45 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 513.5 | 486.0 | 511.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-1069 | ST-106 | 1474123.849 | 1541952.95 | 5344.75 | 5344.34 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 507.5 | 480.0 | 505.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-10610 | ST-106 | 1474760.726 | 1542450.824 | 5343.39 | 5343.2 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 510.5 | 483.0 | 508.0 | 0.01 | None | NA | ARCH | PVC | Yes | No | Yes |
| KAFB-10611 | ST-106 | 1474019.842 | 1542812.766 | 5350.02 | 5353.01 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 516.0 | 486.0 | 511.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10612 | ST-106 | 1474039.837 | 1541489.389 | 5342.24 | 5345.31 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 510.5 | 480.5 | 505.5 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10613 | ST-106 | 1474735.313 | 1541681.317 | 5347.7 | 5350.45 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 516.5 | 486.5 | 511.5 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10614 | ST-106 | 1474017.427 | 1542413.987 | 5347.3 | 5350.08 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 516.0 | 486.0 | 511.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10615 | ST-106 | 1476461.591 | 1545222.751 | 5339.61 | 5342.31 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 515.0 | 480.0 | 505.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10616 | ST-106 | 1473163.69 | 1540986.838 | 5339.13 | 5342.34 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 505.0 | 475.0 | 500.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10617 | ST-106 | 1475228.994 | 1542923.454 | 5339.5 | 5342.51 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 512.0 | 482.0 | 507.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10618 | ST-106 | 1475430.346 | 1542425.963 | 5333.3 | 5335.97 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 506.0 | 476.0 | 501.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10619 | ST-106 | 1474712.8 | 1542975.256 | 5351.8 | 5354.67 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 523.0 | 493.0 | 518.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10620 | ST-106 | 1475368.407 | 1541868.993 | 5341.11 | 5340.75 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 512.0 | 482.0 | 507.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10621 | ST-106 | 1476082.394 | 1542387.097 | 5314.4 | 5314.31 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 495.0 | 458.0 | 483.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10622 | ST-106 | 1476498.591 | 1543364.995 | 5318.18 | 5318.02 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 505.0 | 462.0 | 487.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10623 | ST-106 | 1475669.739 | 1543708.285 | 5328.81 | 5328.43 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 509.0 | 473.0 | 498.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10624 | ST-106 | 1473519.382 | 1541587.399 | 5343.55 | 5343.35 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 514.0 | 481.0 | 506.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10625 | ST-106 | 1477299.27 | 1542975.314 | 5317.35 | 5317.05 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 505.0 | 465.0 | 490.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10626 | ST-106 | 1478616.08 | 1543785.484 | 5322.58 | 5322.39 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 501.0 | 466.0 | 491.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10627 | ST-106 | 1472401.03 | 1541442.593 | 5345.46 | 5348.36 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 516.0 | 481.0 | 506.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-10628 | ST-106 | 1474330.3 | 1542329.361 | 5348.99 | 5348.75 | NAD83/NAVD88 | survey | regional | active | NA | 4 | 520.0 | 486.0 | 511.0 | 0.01 | None | NA | ARCH | PVC/SS | Yes | No | Yes |
| KAFB-3411 | ST-341 | 1473825.41 | 401528.81 | 5337.73 | 5343.49 | NAD27 | survey | regional | active | NA | 4 | 508.0 | 482.0 | 507.0 | 0.01 | Con, GR, N | PVC casing | ARCH | PVC | Yes | Yes | Yes |
| KAFB-3 | Production | 1479061.58 | 406572.70 | 5354.26 | NA | NAD27 | estimated | regional | active | NA | 14 | 900.0 | 452.0 | 900.0 | 0.25 | None | NA | Rotary | Steel | Yes | No | Yes |
| KAFB-15 | Production | 1474350.75 | 399299.16 | NA | NA | NAD27 | estimated | regional | active | NA | 18 | 1600.0 | NA | NA | NA | None | NA | NA | NA | No | No | No |
| KAFB-16 | Production | 1474091.37 | 404627.19 | NA | NA | NAD27 | estimated | regional | active | NA | 18 | 1600.0 | NA | NA | NA | None | NA | NA | NA | No | No | No |
| 2819 Ridgecrest | Production | 1474787 | 404041 | 5348.71 | NA | NAD27 | estimated | regional | active | NA | NA | NA | NA | NA | NA | None | NA | NA | NA | No | No | No |
| Veterans Hospital 2 | Production | 1474621.59 | 1540963.76 | 5344 | NA | NAD83 | estimated | regional | active | NA | NA | NA | NA | NA | NA | None | NA | NA | NA | No | No | No |

Notes:
a - The Kirtland number identifies the solid waste management unit that the monitoring well is associated with, as applicable.
b - Measuring point elevations are the top of the well casing located on the north side of the well. Sea level datum 1929 (SLD29)
c - Completion indicates the groundwater body that the well screen intersects, either the perched groundwater body or the regional aquifer.
d - The top and bottom of the screen are measured as feet below the ground surface.
e - The geophysical logging methods are identified as follows:
BD - Bulk Density, Cal - Caliper, Con - Conductivity, GGD - Gamma-Gamma Density, GR - Gamma Ray, I - Induction, N -Neutron, R - Resistivity, SP - Self-Potential; V - Video
Acronyms:
ARCH - air rotary casing hammer
HSA - hollow stem auger
NA - not available/not applicable
NAD27 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1927
NAD83/NAVD88 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1983 & 1988 elevation datum
PVC - polyvinyl chloride
SS - stainless steel

**Table C-3 Soil Vapor Monitoring and Extraction Well Information, Kirtland Air Force Base, New Mexico, through June 2010**
**Data Sources: Kirtland Air Force Base Administrative Record and Sandia National Laboratories/New Mexico Groundwater Database**

| Well Number | Easting (feet) | Northing (feet) | Ground Surface Elevation (feet) | Datum | Measurement Method | Well Diameter (inches) | Total Depth (feet) | Top of Screen[a] (feet) | Bottom of Screen[a] (feet) | Construction |
|---|---|---|---|---|---|---|---|---|---|---|
| KAFB-10628-150 | 1474330.3 | 1542329.361 | 5348.99 | NAD83/NAVD88 | SRVEY | 0.75 | 520 | 148.75 | 151.25 | PVC 0.050" slot |
| KAFB-10628-250 | 1474330.55 | 1542329.445 | 5348.99 | NAD83/NAVD88 | SRVEY | 0.75 | 520 | 248.75 | 251.25 | PVC 0.050" slot |
| KAFB-10628-350 | 1474330.66 | 1542329.627 | 5348.99 | NAD83/NAVD88 | SRVEY | 0.75 | 520 | 348.75 | 351.25 | PVC 0.050" slot |
| KAFB-10628-450 | 1474330.66 | 1542329.817 | 5348.99 | NAD83/NAVD88 | SRVEY | 0.75 | 520 | 448.75 | 451.25 | PVC 0.050" slot |
| SVEW-01 | 1473522.78 | 1541421.53 | 5341.17 | NAD83/NAVD88 | ESTIM | 4 | 266 | 245 | 260 | 4 inch stainless steel 0.050 slot |
| SVEW-02 | 1473524.87 | 1541431.15 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 67 | 45 | 60 | 2 inch stainless steel 0.050 slot |
| SVEW-03 | 1473524.87 | 1541431.15 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 168 | 145 | 160 | 2 inch stainless steel 0.050 slot |
| SVEW-04 | 1473525.71 | 1541409.81 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 318 | 298 | 313 | 2 inch stainless steel 0.050 slot |
| SVEW-05 | 1473525.71 | 1541409.81 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 465 | 445 | 460 | 2 inch stainless steel 0.050 slot |
| SVEW-06 | 1473528.64 | 1541234.49 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 65 | 45 | 60 | 2 inch stainless steel 0.050 slot |
| SVEW-07 | 1473528.64 | 1541234.49 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 163.5 | 145 | 160 | 2 inch stainless steel 0.050 slot |
| SVEW-08 | 1473526.97 | 1541226.96 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 265.5 | 245 | 260 | 2 inch stainless steel 0.050 slot |
| SVEW-09 | 1473526.97 | 1541226.96 | 5340 | NAD83/NAVD88 | ESTIM | 2 | 457.5 | 435 | 450 | 2 inch stainless steel 0.050 slot |
| SVEW-10 | 1473730.35 | 1540843.83 | 5337.37 | NAD83/NAVD88 | SRVEY | 2 | 412.5 | 400 | 410 | 2 inch schedule 80 PVC 0.050 slot |
| SVEW-11 | 1473671.36 | 1541991.08 | 5344.98 | NAD83/NAVD88 | SRVEY | 2 | 414.8 | 400 | 410 | 2 inch schedule 80 PVC 0.050 slot |
| SVEW-12 | 1473121.58 | 1540963.98 | 5336.36 | NAD83/NAVD88 | SRVEY | 2 | 414.1 | 400 | 410 | 2 inch schedule 80 PVC 0.050 slot |
| SVEW-13 | 1473410.24 | 1541979.86 | 5344.19 | NAD83/NAVD88 | SRVEY | 2 | 415.2 | 400 | 410 | 2 inch schedule 80 PVC 0.050 slot |
| SVMW-01_100 | 1473533 | 1541093 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 103 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-01_250 | 1473533 | 1541093 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 256 | 250.7 | 253.2 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-01_308 | 1473533 | 1541093 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 312 | 308.5 | 310 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-01_50 | 1473533 | 1541093 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 54 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-02_150 | 1473649 | 1541414 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 152.5 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-02_50 | 1473649 | 1541414 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 54 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-02_97 | 1473649 | 1541414 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 106 | 97 | 99.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-03_100 | 1473498 | 1541521 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 103 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-03_250 | 1473498 | 1541521 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 256 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-03_300 | 1473498 | 1541521 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 303 | 300 | 302.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-03_50 | 1473498 | 1541521 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 53 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-04_250 | 1473431 | 1541240 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 255 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-04_297 | 1473431 | 1541240 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 312 | 297.5 | 300 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-04_50 | 1473431 | 1541240 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 53.5 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-04_98 | 1473431 | 1541240 | 5344 | NAD83/NAVD88 | ESTIM | 0.5 | 108 | 98 | 100.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-05_100 | 1473499.35 | 1541016.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 103 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-05_229 | 1473499.35 | 1541016.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 231 | 229.5 | 231 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-05_287 | 1473499.35 | 1541016.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 290 | 287.5 | 290 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-05_50 | 1473499.35 | 1541016.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 53.5 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-06_252 | 1473506.88 | 1541803.13 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 255.5 | 252 | 254.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-06_302 | 1473506.88 | 1541803.13 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 310 | 302.5 | 305 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-06_50 | 1473506.88 | 1541803.13 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 53 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-06_99 | 1473506.88 | 1541803.13 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 103 | 99.5 | 102 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-07_147 | 1473791.41 | 1541493.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 150 | 147 | 150 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-07_49 | 1473791.41 | 1541493.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 53 | 49.5 | 52 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-07_95 | 1473791.41 | 1541493.08 | 5339 | NAD83/NAVD88 | SRVEY | 0.5 | 98 | 95.5 | 98 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-08_100 | 1473998.71 | 401166.94 | 5340.43 | NAD27 | SRVEY | 0.5 | 105 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-08_250 | 1473998.71 | 401166.94 | 5340.43 | NAD27 | SRVEY | 0.5 | 255 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-08_266 | 1473998.71 | 401166.94 | 5340.43 | NAD27 | SRVEY | 0.5 | 280 | 266 | 268.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-08_50 | 1473998.71 | 401166.94 | 5340.43 | NAD27 | SRVEY | 0.5 | 55.4 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |

**Table C-3 Soil Vapor Monitoring and Extraction Well Information, Kirtland Air Force Base, New Mexico, through June 2010**
**Data Sources: Kirtland Air Force Base Administrative Record and Sandia National Laboratories/New Mexico Groundwater Database**

| Well Number | Easting (feet) | Northing (feet) | Ground Surface Elevation (feet) | Datum | Measurement Method | Well Diameter (inches) | Total Depth (feet) | Top of Screen[a] (feet) | Bottom of Screen[a] (feet) | Construction |
|---|---|---|---|---|---|---|---|---|---|---|
| SVMW-09_100 | 1473987.98 | 401214.53 | 5340.75 | NAD27 | SRVEY | 0.5 | 105 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-09_250 | 1473987.98 | 401214.53 | 5340.75 | NAD27 | SRVEY | 0.5 | 255 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-09_266 | 1473987.98 | 401214.53 | 5340.75 | NAD27 | SRVEY | 0.5 | 280 | 266 | 268.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-09_50 | 1473987.98 | 401214.53 | 5340.75 | NAD27 | SRVEY | 0.5 | 55.4 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-10_100 | 1473534.52 | 1541371.74 | 5340.8 | NAD83/NAVD88 | SRVEY | 0.5 | 105 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-10_150 | 1473534.52 | 1541371.74 | 5340.8 | NAD83/NAVD88 | SRVEY | 0.5 | 156.5 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-10_250 | 1473534.52 | 1541371.74 | 5340.8 | NAD83/NAVD88 | SRVEY | 0.5 | 256.3 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-10_50 | 1473534.52 | 1541371.74 | 5340.8 | NAD83/NAVD88 | SRVEY | 0.5 | 55 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-11_100 | 1473473.83 | 1541412.74 | 5340.64 | NAD83/NAVD88 | SRVEY | 0.5 | 105.4 | 100 | 102.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-11_250 | 1473473.83 | 1541412.74 | 5340.64 | NAD83/NAVD88 | SRVEY | 0.5 | 254.8 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-11_260 | 1473473.83 | 1541412.74 | 5340.64 | NAD83/NAVD88 | SRVEY | 0.5 | 280 | 260 | 262.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-11_50 | 1473473.83 | 1541412.74 | 5340.64 | NAD83/NAVD88 | SRVEY | 0.5 | 55.2 | 50 | 52.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-12_150 | 1473729.248 | 1540843.815 | 5340.25 | NAD83/NAVD88 | SRVEY | 0.5 | 155 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-12_250 | 1473729.248 | 1540843.815 | 5340.25 | NAD83/NAVD88 | SRVEY | 0.5 | 255 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-12_350 | 1473729.248 | 1540843.815 | 5340.25 | NAD83/NAVD88 | SRVEY | 0.5 | 355 | 350 | 352.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-12_450 | 1473729.248 | 1540843.815 | 5340.25 | NAD83/NAVD88 | SRVEY | 0.5 | 455 | 450 | 452.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-13_150 | 1473669.884 | 1541991.375 | 5347.63 | NAD83/NAVD88 | SRVEY | 0.5 | 155.8 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-13_250 | 1473669.884 | 1541991.375 | 5347.63 | NAD83/NAVD88 | SRVEY | 0.5 | 255.5 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-13_350 | 1473669.884 | 1541991.375 | 5347.63 | NAD83/NAVD88 | SRVEY | 0.5 | 356.5 | 350 | 352.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-13_450 | 1473669.884 | 1541991.375 | 5347.63 | NAD83/NAVD88 | SRVEY | 0.5 | 460 | 450 | 452.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-14_150 | 1473120.013 | 1540963.977 | 5339.1 | NAD83/NAVD88 | SRVEY | 0.5 | 156 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-14_250 | 1473120.013 | 1540963.977 | 5339.1 | NAD83/NAVD88 | SRVEY | 0.5 | 256 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-14_350 | 1473120.013 | 1540963.977 | 5339.1 | NAD83/NAVD88 | SRVEY | 0.5 | 355 | 350 | 352.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-14_450 | 1473120.013 | 1540963.977 | 5339.1 | NAD83/NAVD88 | SRVEY | 0.5 | 455 | 450 | 452.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-15_150 | 1473408.631 | 1541979.721 | 5347.08 | NAD83/NAVD88 | SRVEY | 0.5 | 155 | 150 | 152.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-15_250 | 1473408.631 | 1541979.721 | 5347.08 | NAD83/NAVD88 | SRVEY | 0.5 | 255 | 250 | 252.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-15_350 | 1473408.631 | 1541979.721 | 5347.08 | NAD83/NAVD88 | SRVEY | 0.5 | 355 | 350 | 352.5 | 1/2 inch schedule 80 PVC 0.050 slot |
| SVMW-15_450 | 1473408.631 | 1541979.721 | 5347.08 | NAD83/NAVD88 | SRVEY | 0.5 | 462 | 450 | 452.5 | 1/2 inch schedule 80 PVC 0.050 slot |

Notes:
a - The top and bottom of the screen are measured as feet below the ground surface.
Acronyms:
NA - not available/not applicable
NAD27 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1927
NAD83/NAVD88 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1983 & 1988 elevation datum
PVC - polyvinyl chloride
SS - stainless steel

**Table C-3 Soil Boring Information, Kirtland Air Force Base, New Mexico, through June 2010**

**Data Sources: Kirtland Air Force Base Administrative Record and Sandia National Laboratories/New Mexico Groundwater Database**

| Boring Number | Easting (feet) | Northing (feet) | Ground Surface Elevation (feet) | Datum | Measurement Method | Total Depth (feet) [a] | Drilling Method |
|---|---|---|---|---|---|---|---|
| 106B | NA | NA | NA | NA | NA | NA | NA |
| 106C | 1473520.227 | 1541613.244 | 5341.17 | NAD83 | Estimated | NA | HSA |
| 1951FR | 1473825 | 401860 | NA | NAD27 | Estimated | NA | NA |
| BLDG-1032 | 1473825 | 401828 | NA | NAD27 | Estimated | NA | NA |
| BLDG-1048 | 1474295 | 401818 | NA | NAD27 | Estimated | NA | NA |
| FFES-SB-01 | 1473476.54 | 1541889.82 | 5345 | NAD83 | Surveyed | 50 | Geoprobe |
| FFES-SB-02 | 1473541.71 | 1541858.36 | 5345 | NAD83 | Surveyed | 25 | Geoprobe |
| FFES-SB-03 | 1473433.85 | 1541998.8 | 5345 | NAD83 | Surveyed | 25 | Geoprobe |
| FFES-SB-04 | 1473463.06 | 1542149.36 | 5345 | NAD83 | Surveyed | 50 | Geoprobe |
| FFES-SB-05 | 1473341.18 | 1542058.59 | 5345 | NAD83 | Surveyed | 25 | Geoprobe |
| FFES-SB-06 | 1472797.13 | 1542086.04 | 5345 | NAD83 | Surveyed | 45 | Geoprobe |
| FFES-SB-07 | 1472848.79 | 1541995.63 | 5345 | NAD83 | Surveyed | 50 | Geoprobe |
| FFES-SB-08 | 1472742.24 | 1542489.63 | 5345 | NAD83 | Surveyed | 50 | Geoprobe |
| FFES-SB-09 | 1472858.47 | 1542389.54 | 5345 | NAD83 | Surveyed | 25 | Geoprobe |
| FFES-SB-10 | 1473448.45 | 1542025.77 | 5345 | NAD83 | Surveyed | 2 | Dug |
| FFES-TP-01 | 1473466.43 | 1541897.69 | 5345 | NAD83 | Surveyed | 4 | Trench |
| FFES-TP-02 | 1473542.83 | 1541861.73 | 5345 | NAD83 | Surveyed | 2 | Trench |
| FFES-TP-03 | 1473538.34 | 1541852.74 | 5345 | NAD83 | Surveyed | 6 | Trench |
| FFES-TP-04 | 1473549.6 | 1541869.6 | 5345 | NAD83 | Surveyed | 6 | Trench |
| FFES-TP-05 | 1473550.69 | 1541854.99 | 5345 | NAD83 | Surveyed | 6 | Trench |
| FFES-TP-06 | 1473464.18 | 1542150.48 | 5345 | NAD83 | Surveyed | 7 | Trench |
| FFES-TP-07 | 1473467.55 | 1542175.23 | 5345 | NAD83 | Surveyed | 9 | Trench |
| FFES-TP-08 | 1473461.94 | 1542153.85 | 5345 | NAD83 | Surveyed | 9 | Trench |
| ST106-SB-01 | 1473556.771 | 1541384.74 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-02 | 1473557.791 | 1541408.49 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-03 | 1473586.631 | 1541386.75 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-04 | 1473559.851 | 1541363.72 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-05 | 1473536.121 | 1541384.66 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-06 | 1473508.501 | 1541207.51 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-07 | 1473508.771 | 1541254.06 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-08 | 1473505.951 | 1541304.76 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-09 | 1473506.031 | 1541355.42 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-10 | 1473505.851 | 1541405.08 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-12 | 1473434.461 | 1541400.64 | NA | NAD83 | Estimated | NA | NA |

**Table C-3 Soil Boring Information, Kirtland Air Force Base, New Mexico, through June 2010**

**Data Sources: Kirtland Air Force Base Administrative Record and Sandia National Laboratories/New Mexico Groundwater Database**

| Boring Number | Easting (feet) | Northing (feet) | Ground Surface Elevation (feet) | Datum | Measurement Method | Total Depth (feet) [a] | Drilling Method |
|---|---|---|---|---|---|---|---|
| ST106-SB-13 | 1473537.821 | 1541253.21 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-14 | 1473536.941 | 1541304.57 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-15 | 1473469.201 | 1541279.46 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-16 | 1473471.031 | 1541330.17 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-17 | 1473393.871 | 1541588.48 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-18 | 1473434.781 | 1541531.38 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-19 | 1473434.381 | 1541479.74 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-20 | 1473360.311 | 1541493.88 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-21 | 1473344.831 | 1541557.06 | NA | NAD83 | Estimated | NA | NA |
| ST106-SB-22 | 1473469 | 400960.3 | 5340.5 | NAD27 | Estimated | 250 | HSA |
| ST106-SB-23 | 1473409 | 400916.8 | 5338.69 | NAD27 | Estimated | 315 | HSA |
| ST106-SB-25 | 1473439 | 400961.2 | 5340.49 | NAD27 | Estimated | 252 | HSA |
| ST106-SB-26 | 1473437 | 401158.8 | 5340.53 | NAD27 | Estimated | 315 | HSA |
| ST106-SB-27 | 1473520 | 401113.9 | 5339.15 | NAD27 | Estimated | 510 | ARCH |
| ST106-SB-28 | 1473442 | 401228.8 | 5340.53 | NAD27 | Estimated | 170 | HSA |
| ST106-SB-28A | 1473427 | 401228.8 | 5340.53 | NAD27 | Estimated | 340 | ARCH |
| ST106-SB-29 | 1473385 | 401056.7 | 5338.74 | NAD27 | Estimated | 272 | HSA |
| ST106-SB-29A | 1473385 | 401031.7 | 5338.74 | NAD27 | Estimated | 302 | HSA |
| ST106-SB-30 | 1473467 | 400860.7 | 5340.5 | NAD27 | Estimated | 330 | ARCH |
| ST106-SB-31 | 1473587 | 401163.8 | 5340.5 | NAD27 | Estimated | 150 | ARCH |
| ST106-SB-32 | 1473438 | 400779.3 | 5340.5 | NAD27 | Estimated | 330 | ARCH |
| ST106-SB-33 | 1473429 | 401490.8 | 5340.53 | NAD27 | Estimated | 310 | ARCH |
| ST106-SB-34 | 1473718 | 401204.8 | 5340.53 | NAD27 | Estimated | 150 | ARCH |

Notes:

[a] - Total depth measured as feet below the ground surface.

Acronyms:

ARCH - air rotary casing hammer

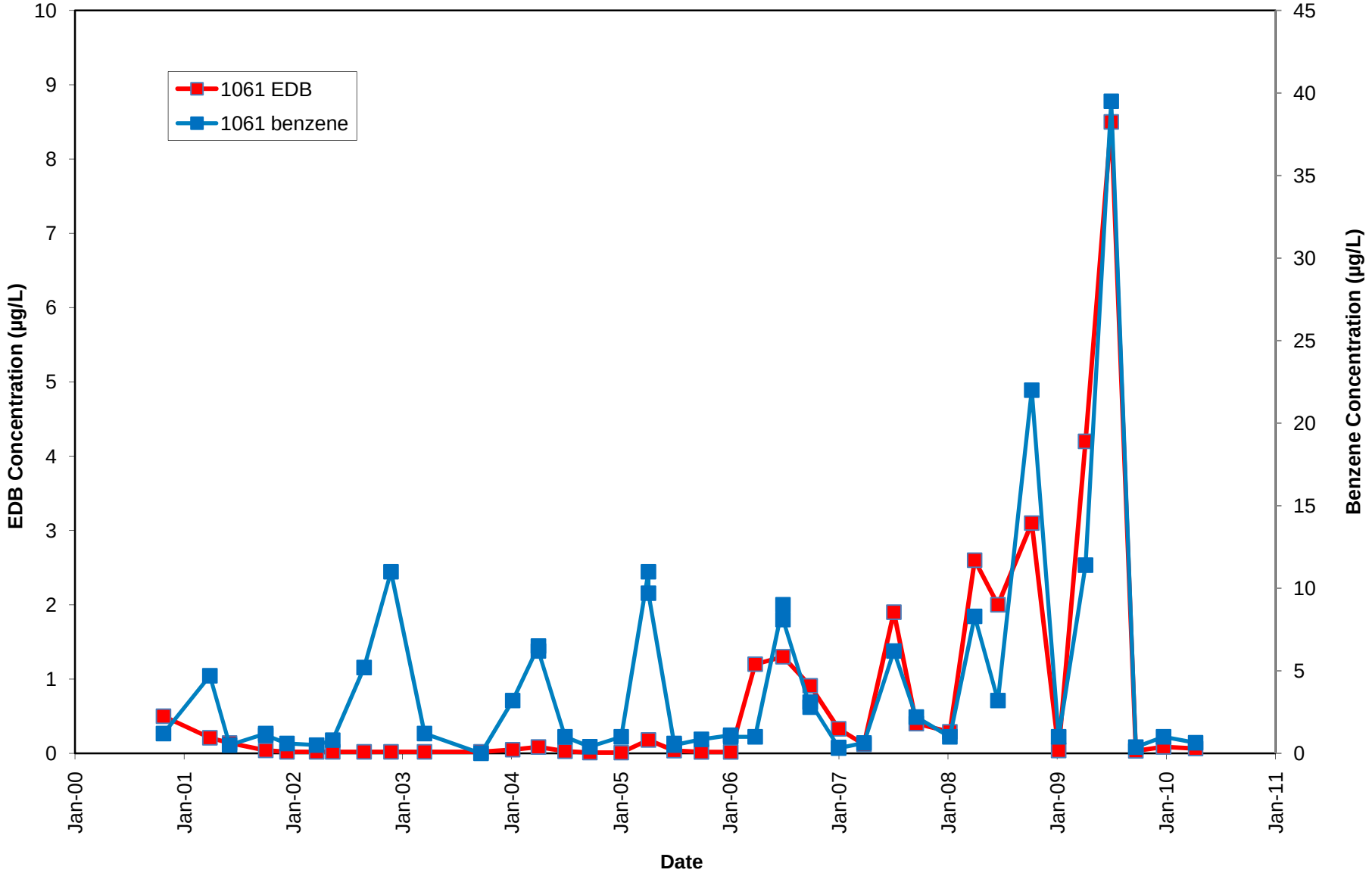
HSA - hollow stem auger

NA - not available/not applicable

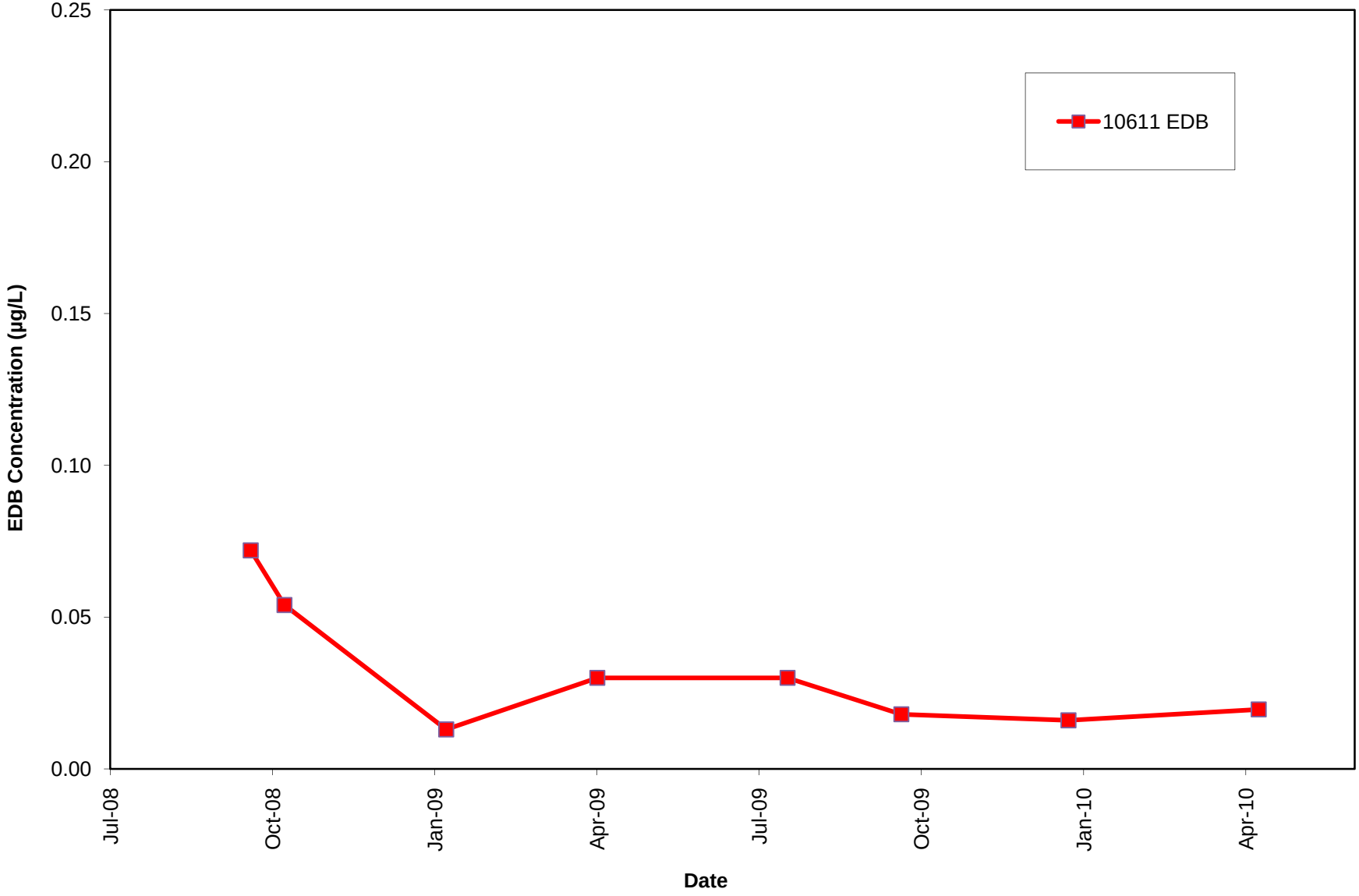
NAD27 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1927

NAD83 - New Mexico State Plane Coordinate System, Central Zone, North American Datum 1983

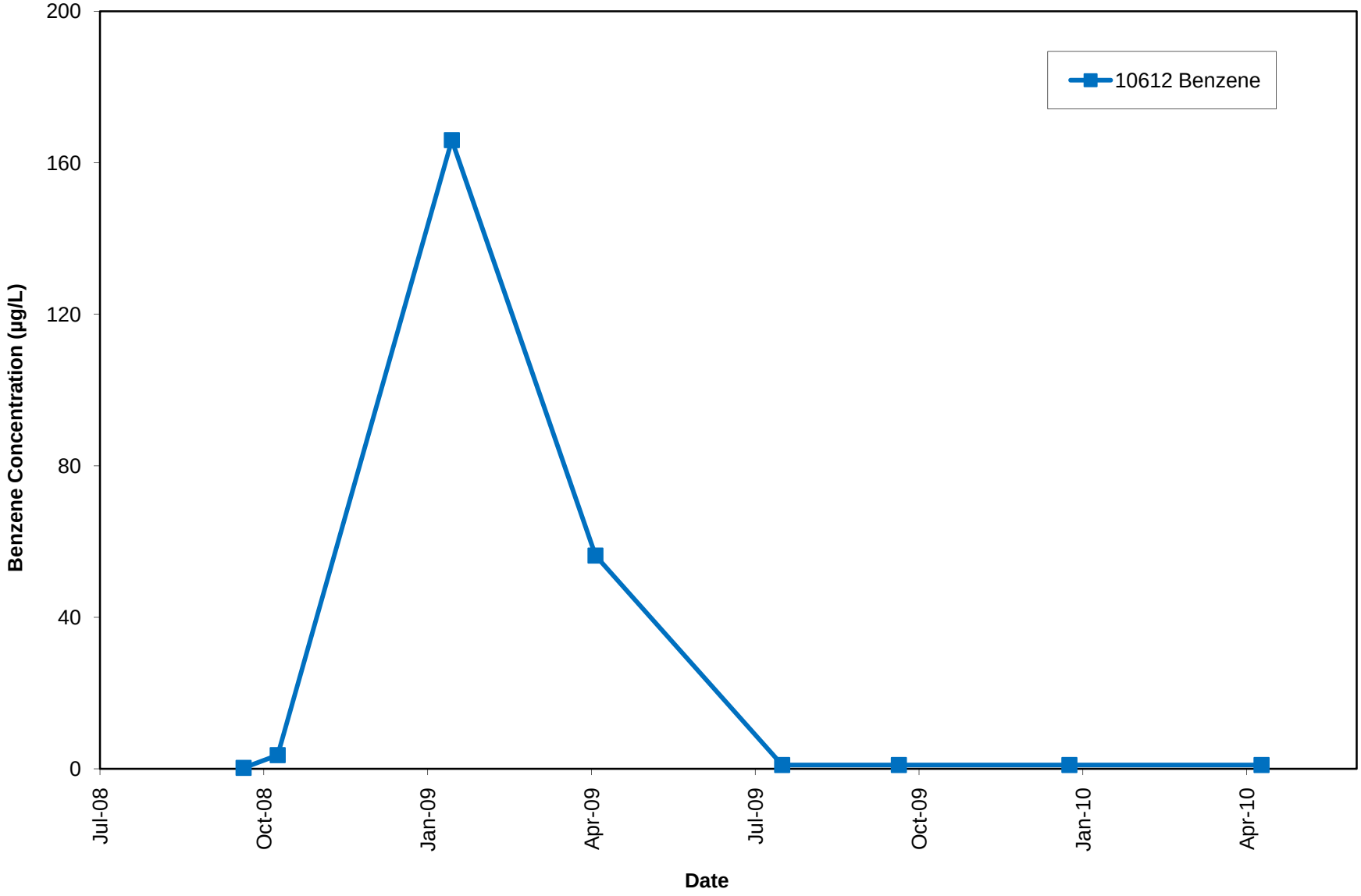
**Appendix C-4**
**EDB and Benzene Concentration vs. Time at KAFB-1061**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



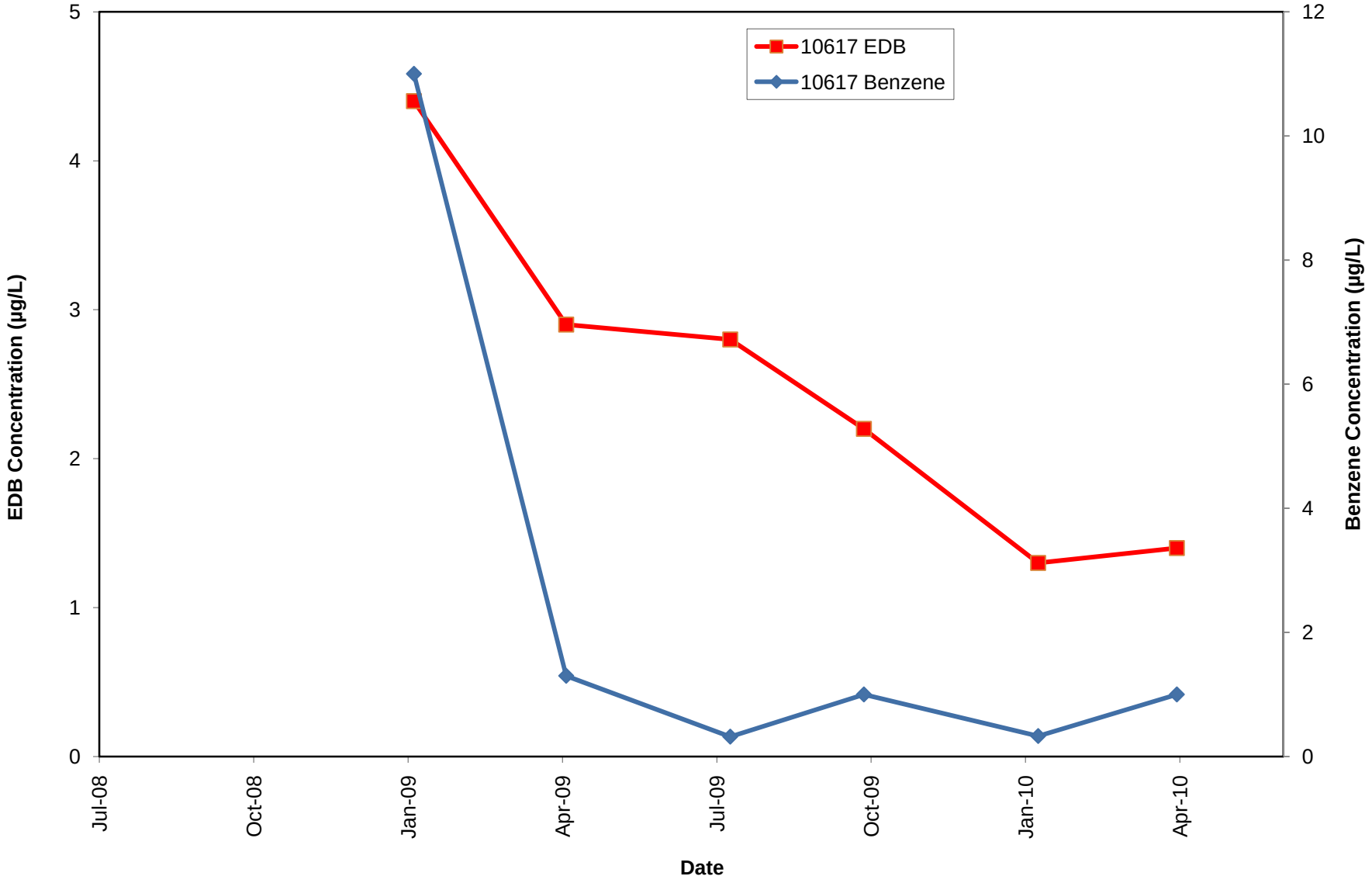
**Appendix C-4**
**EDB Concentration vs. Time in KAFB-10611**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



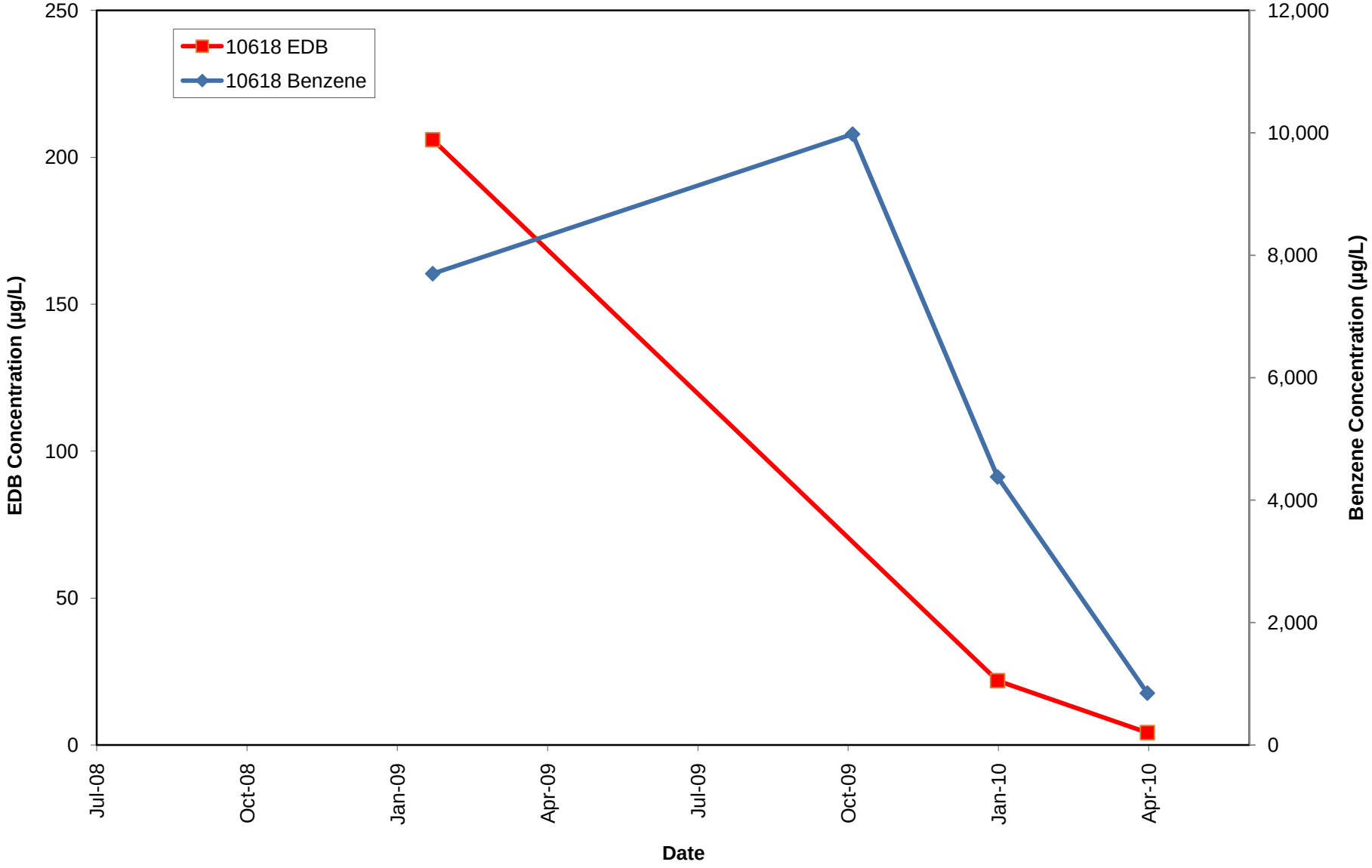
**Appendix C-4**
**Benzene Concentration vs. Time at KAFB-10612**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



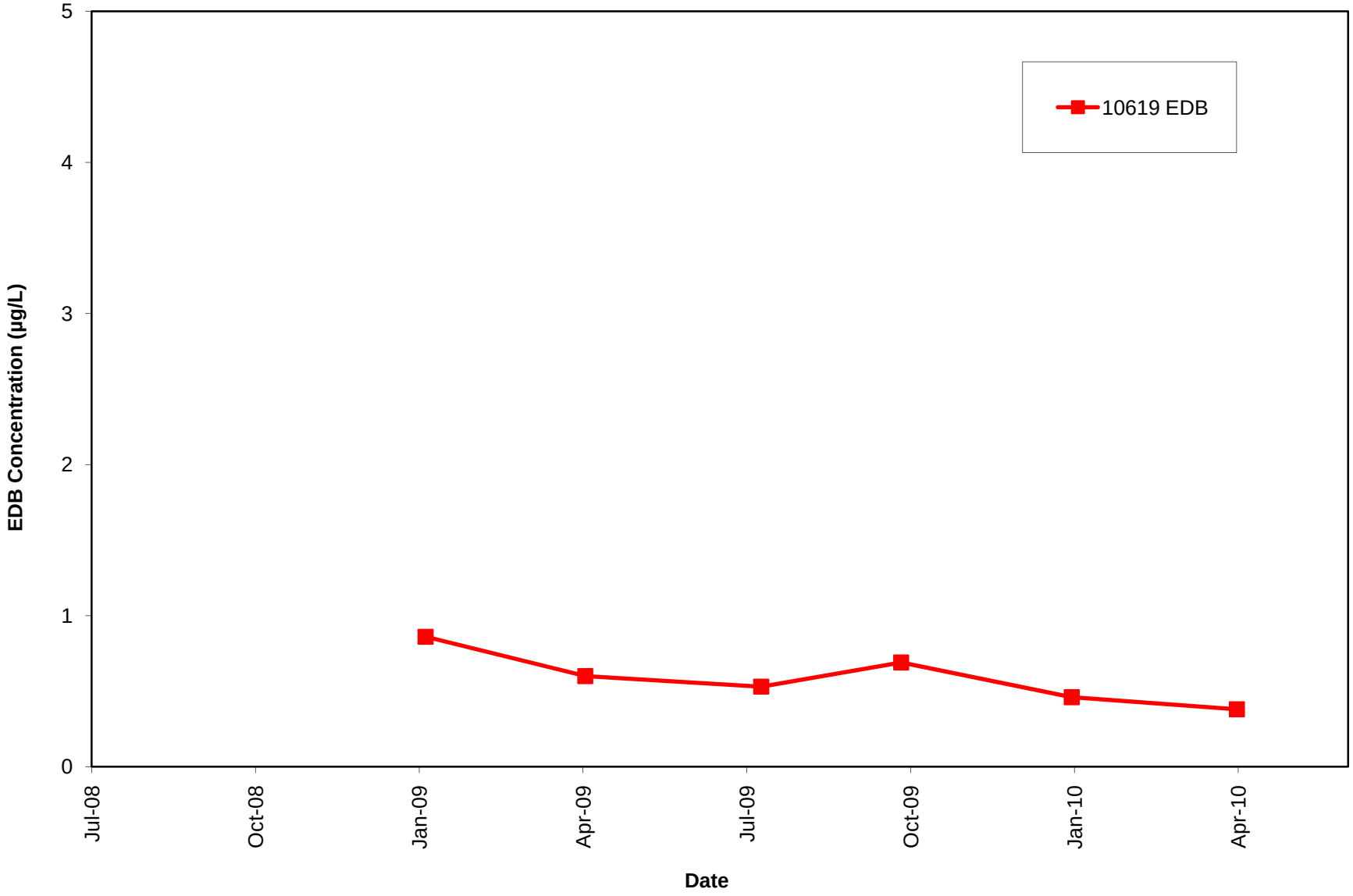
**Appendix C-4**
**EDB and Benzene Concentration vs. Time at KAFB-10617**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



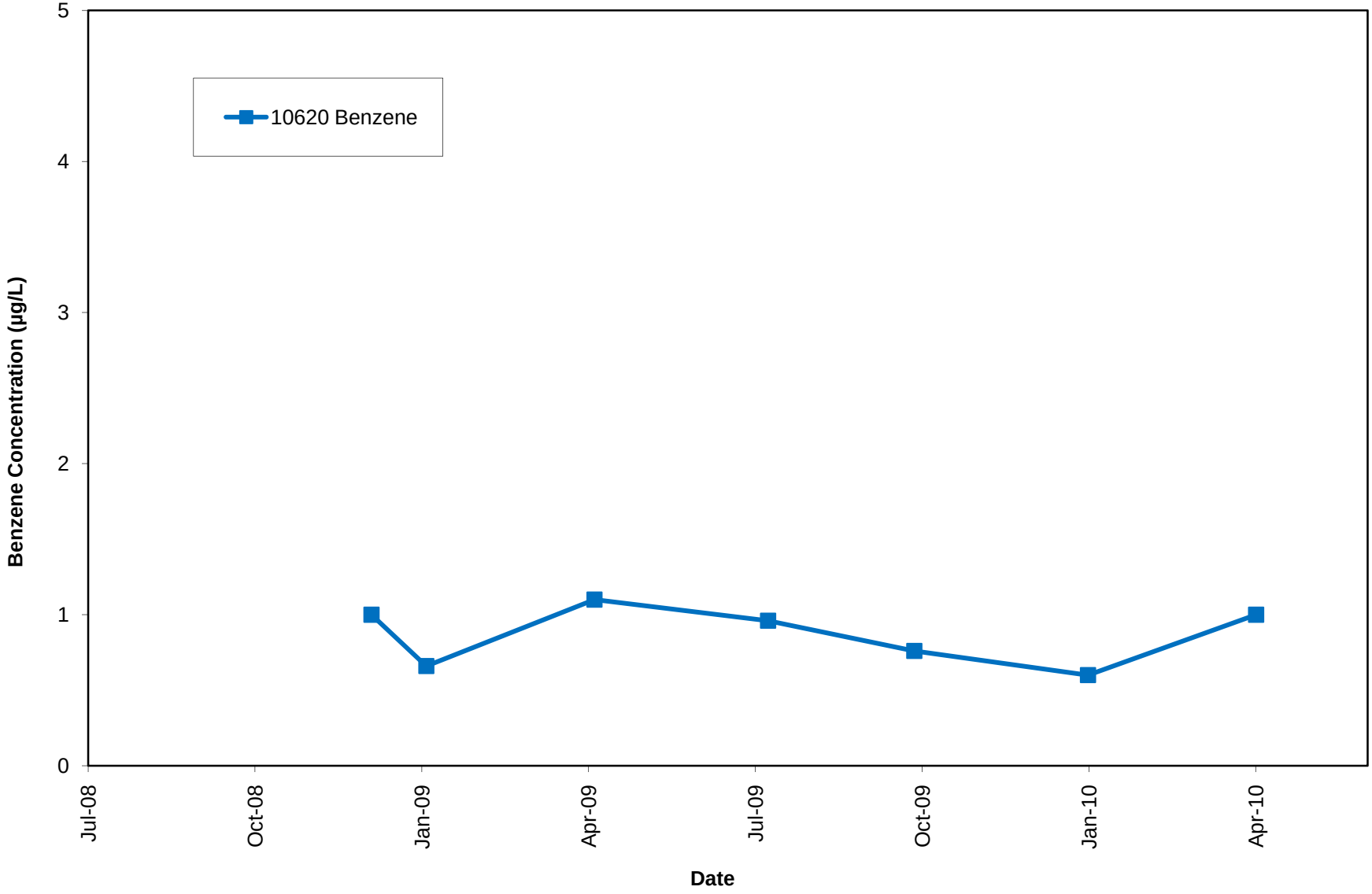
**Appendix C-4**
**EDB and Benzene Concentration vs. Time at KAFB-10618**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



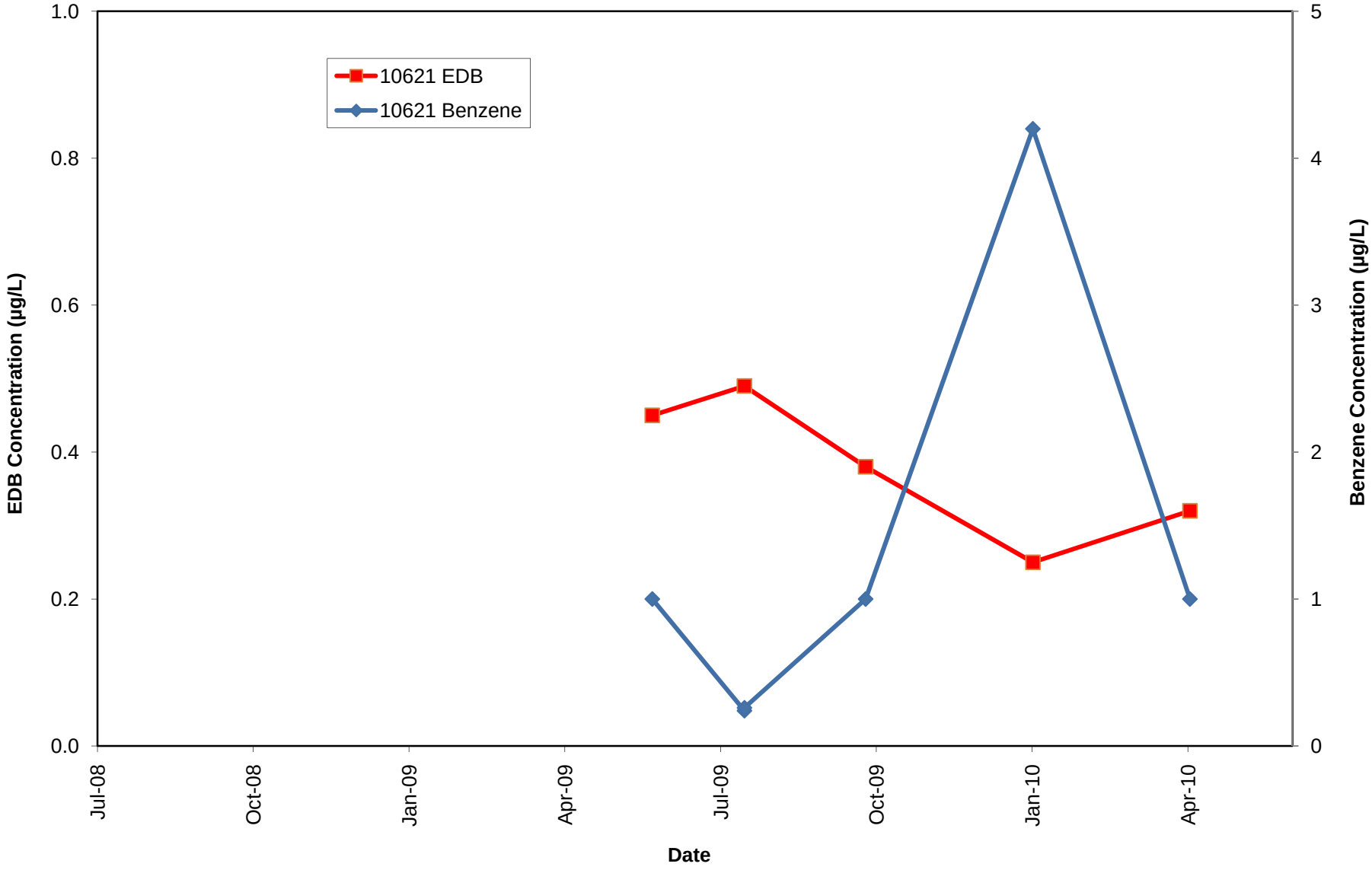
**Appendix C-4**
**EDB Concentration vs. Time in KAFB-10619**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



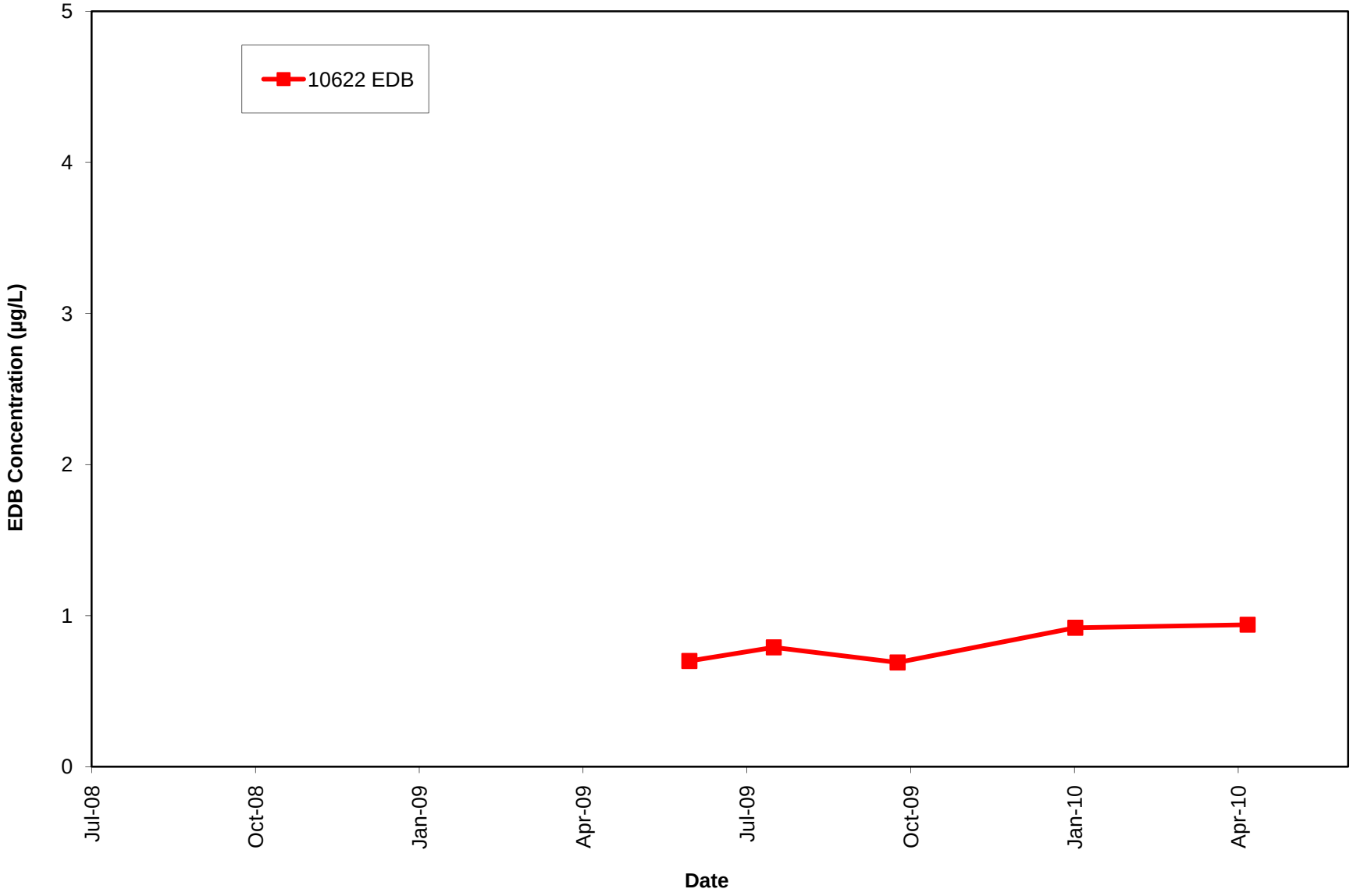
**Appendix C-4**
**Benzene Concentration vs. Time in KAFB-10620**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



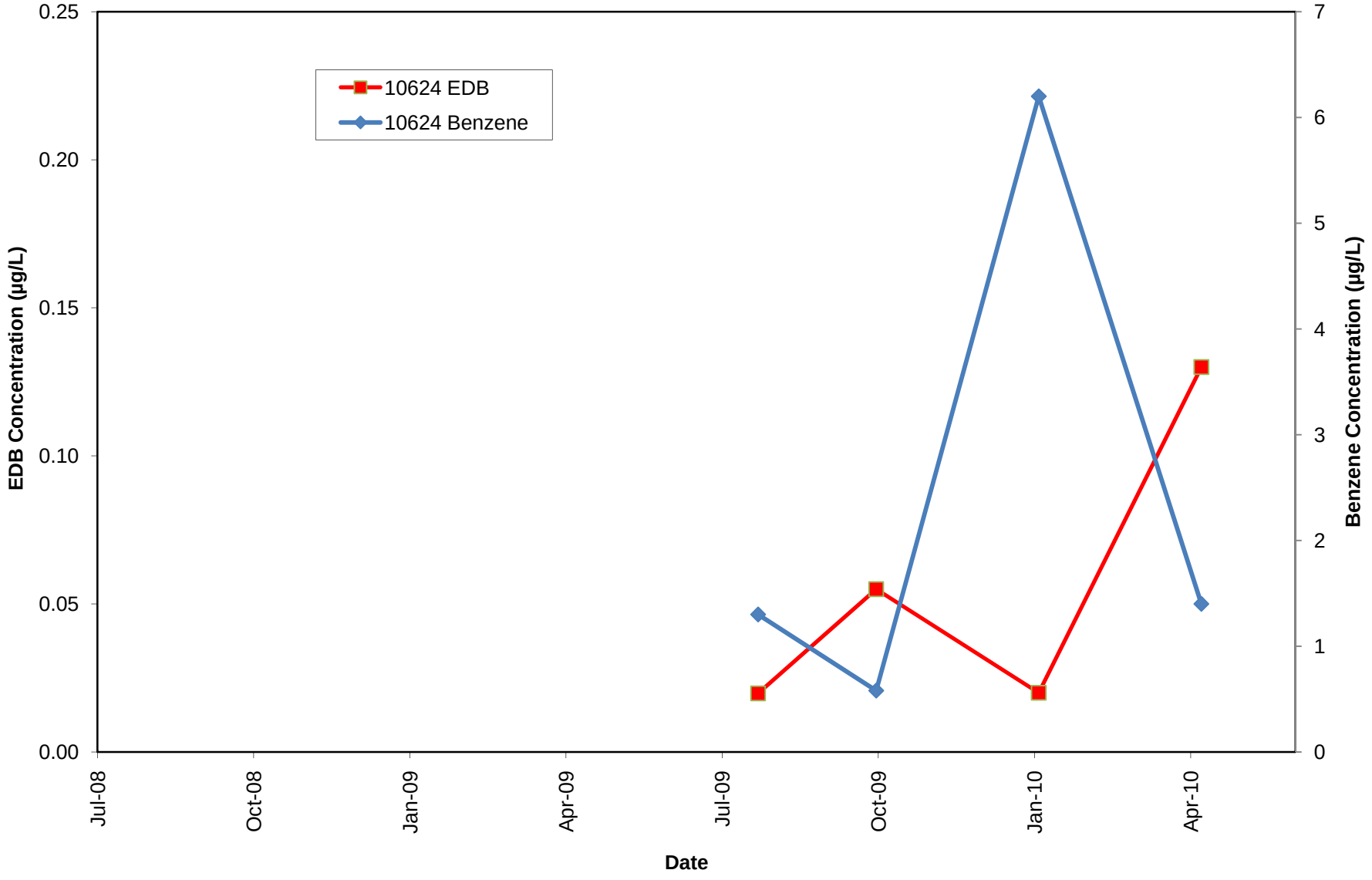
**Appendix C-4**
**EDB and Benzene Concentration vs. Time at KAFB-10621**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



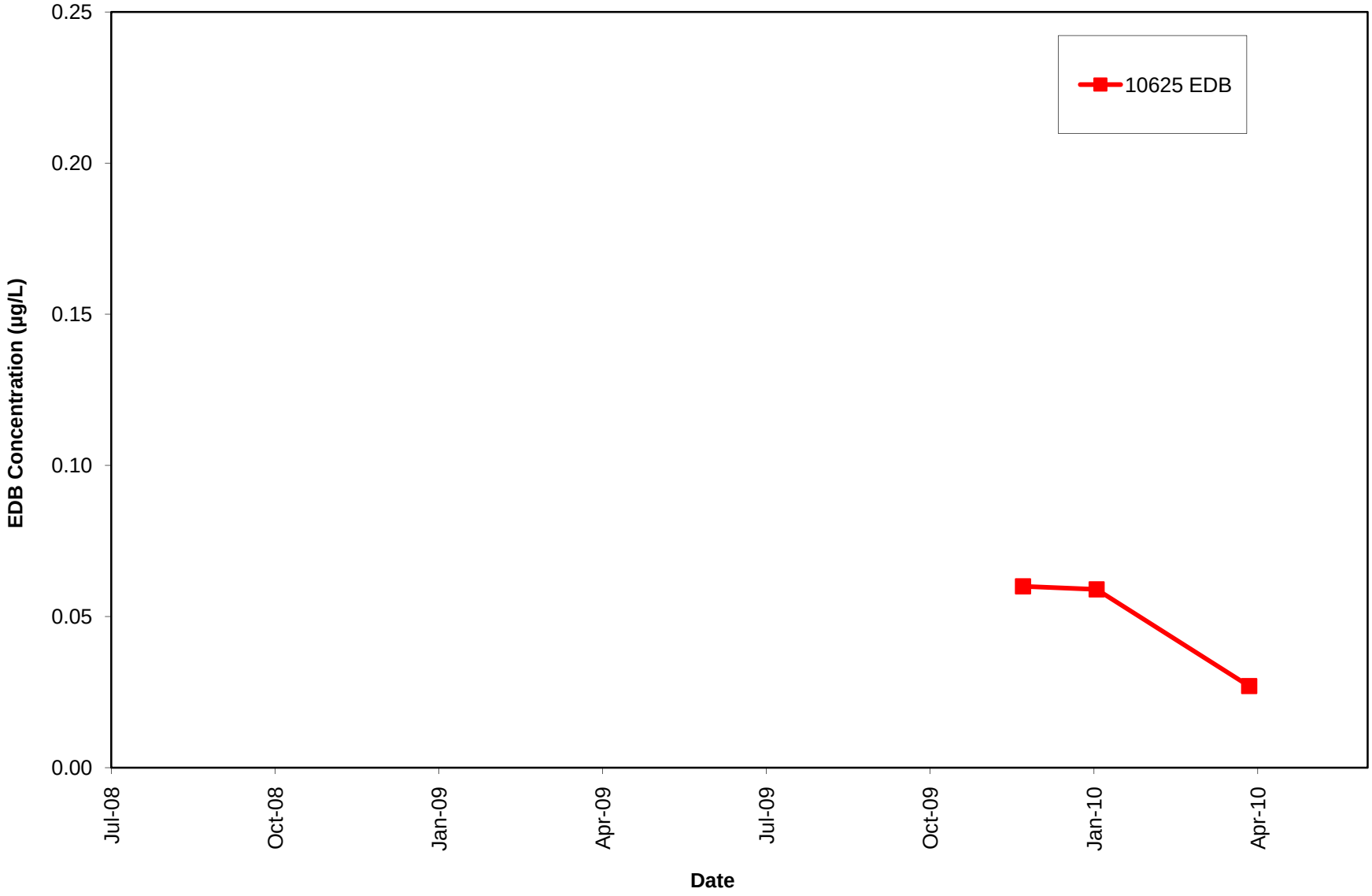
**Appendix C-4**
**EDB Concentration vs. Time in KAFB-10622**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



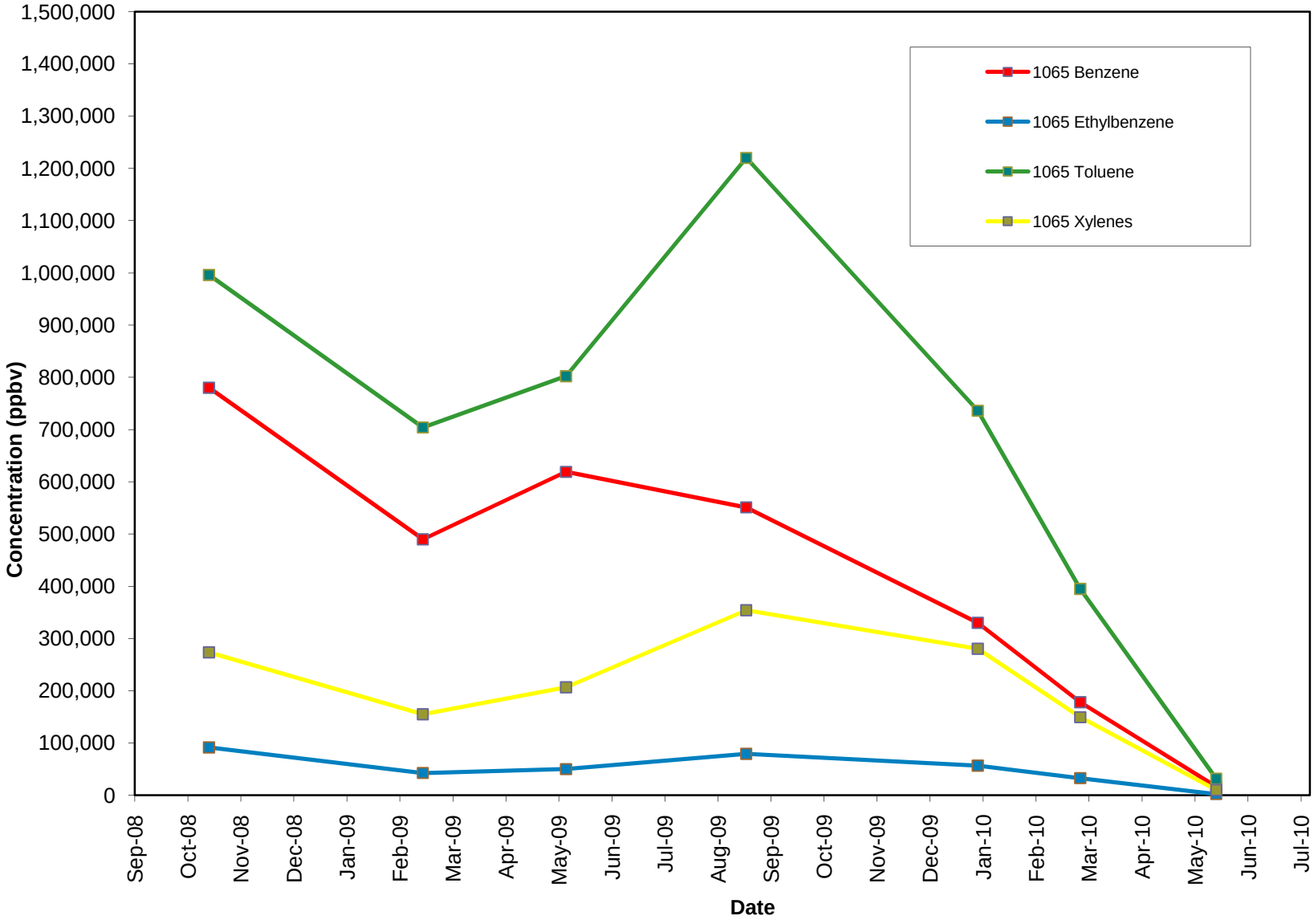
**Appendix C-4**
**EDB and Benzne Concentration vs. Time in KAFB-10624**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



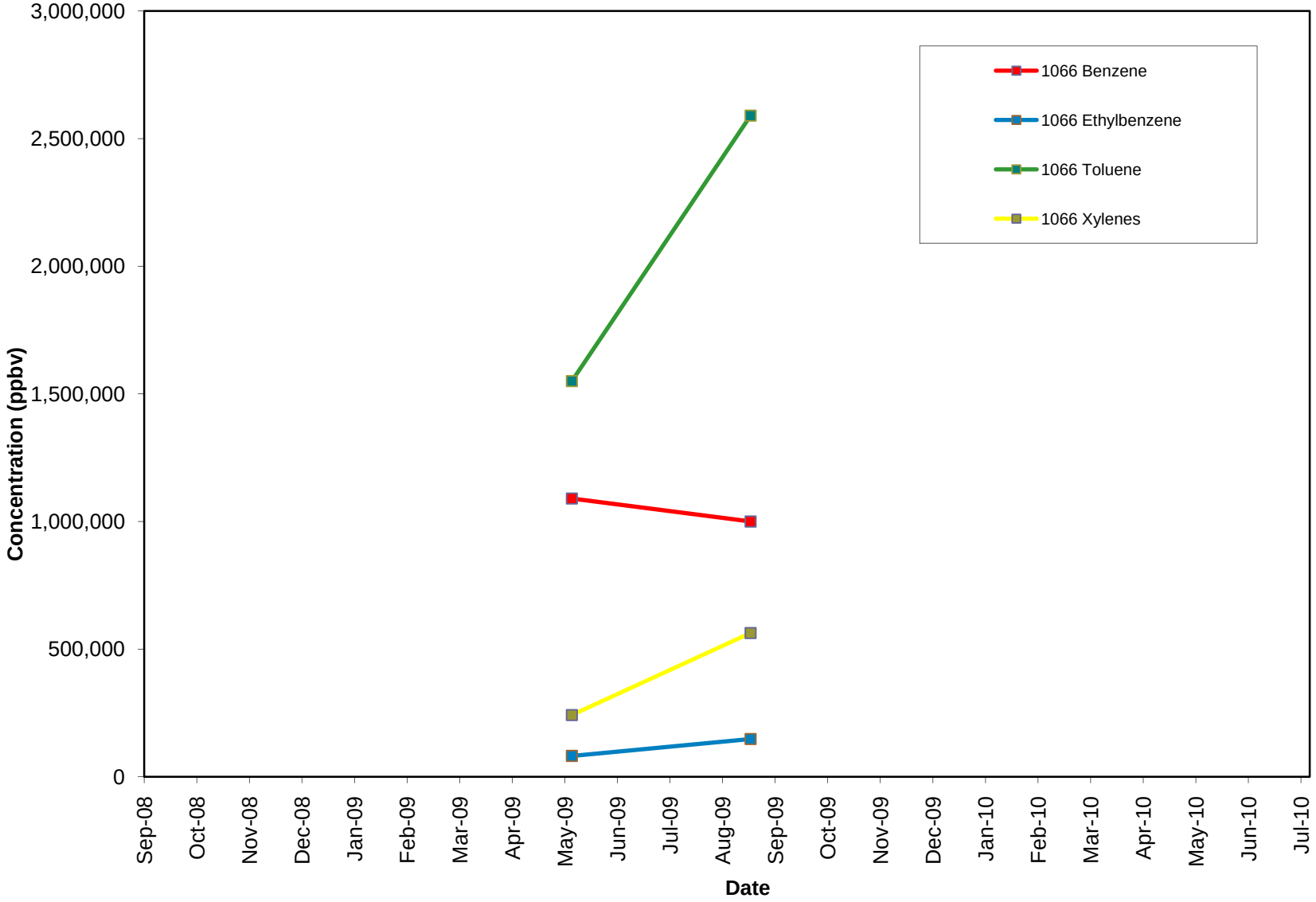
**Appendix C-4**
**EDB Concentration vs. Time in KAFB-10625**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



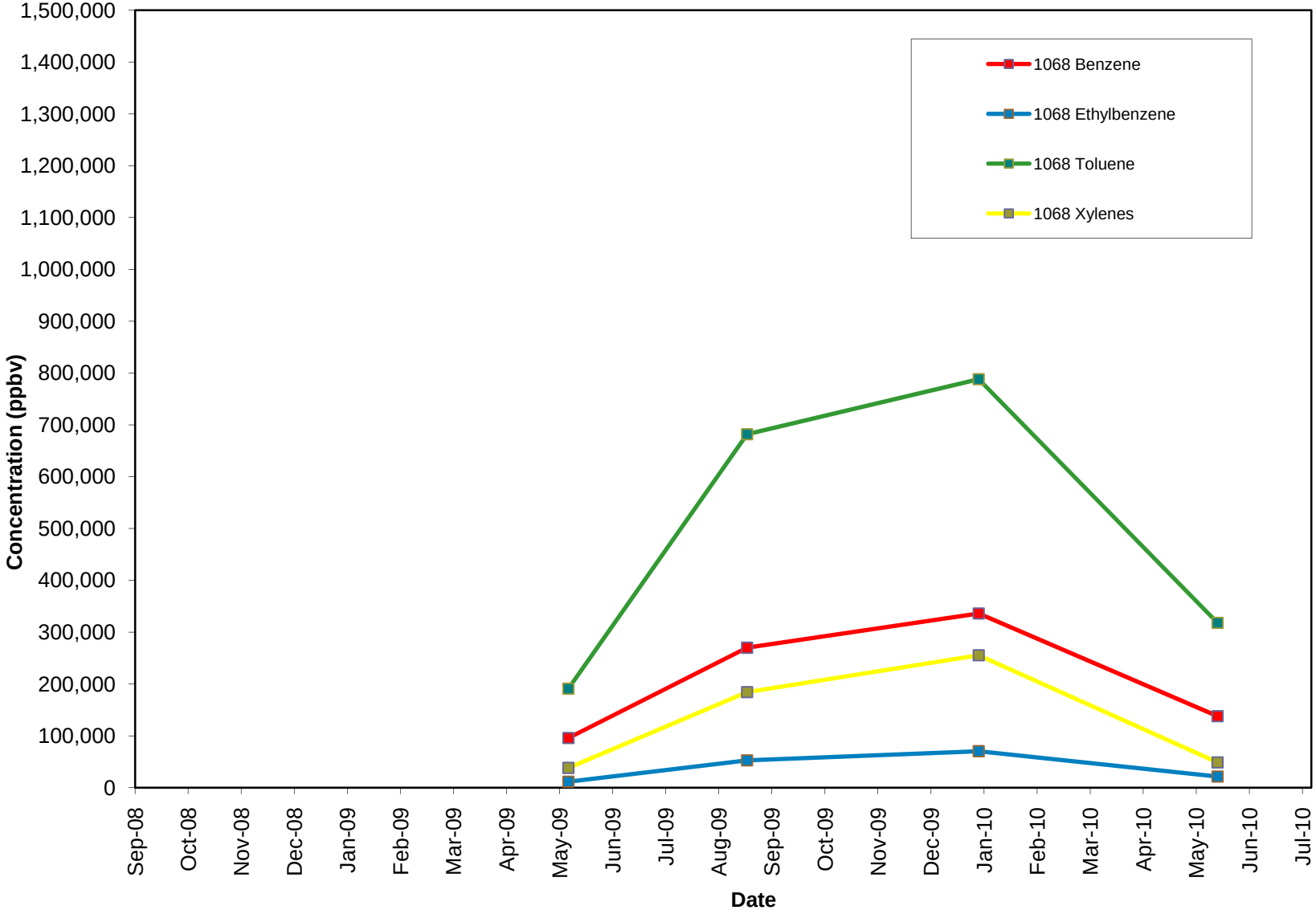
**Appendix C-5**
**BTEX Concentrations in Soil Gas vs. Time at KAFB-1065**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



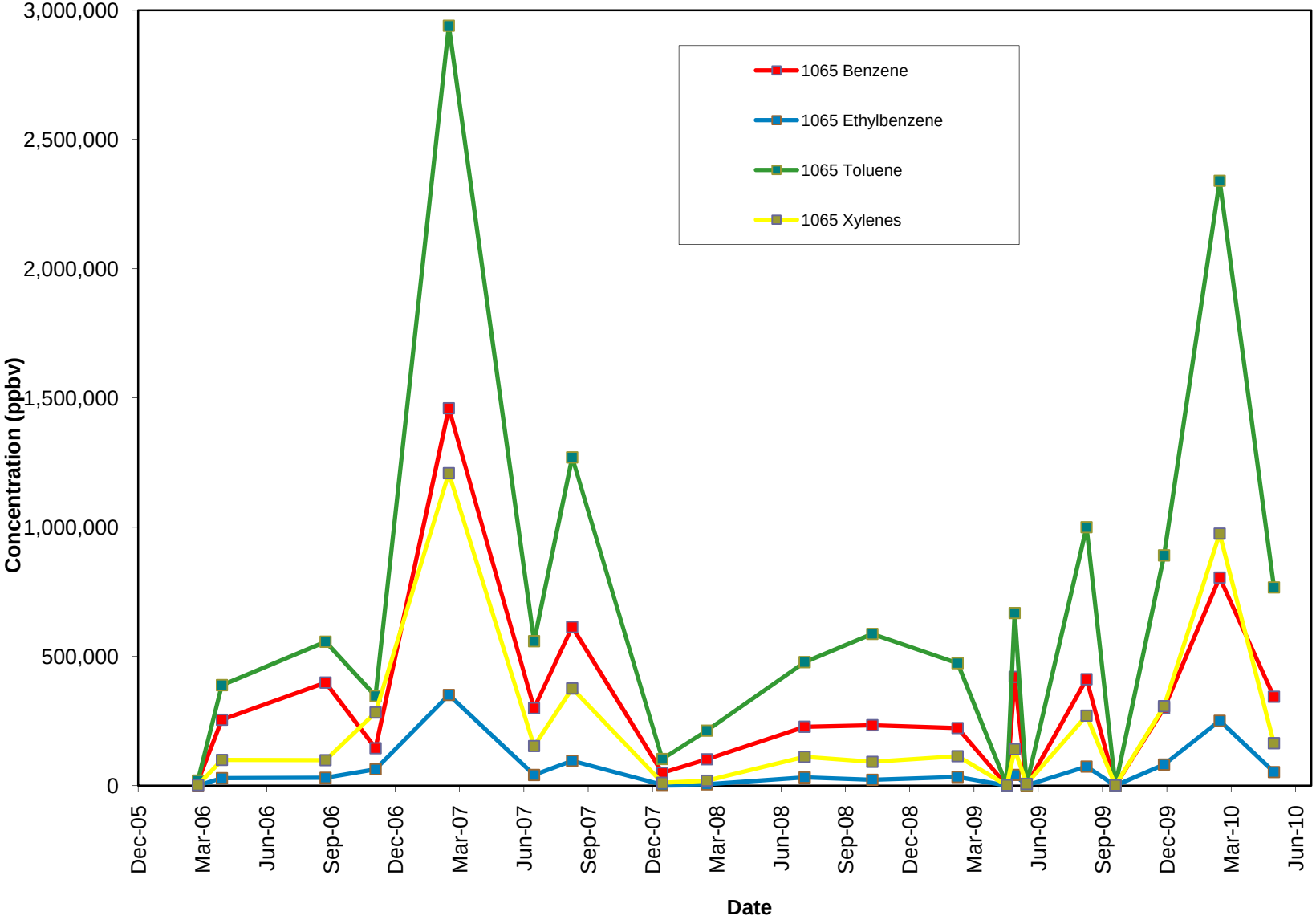
**Appendix C-5**
**BTEX Concentrations in Soil Gas vs. Time at KAFB-1066**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**



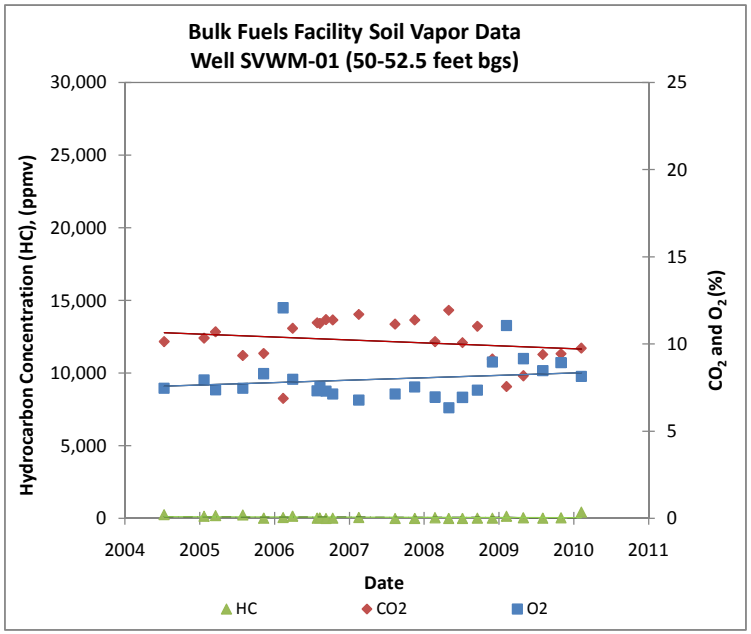
**Appendix C-5**
**BTEX Concentrations in Soil Gas vs. Time at KAFB-1068**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**

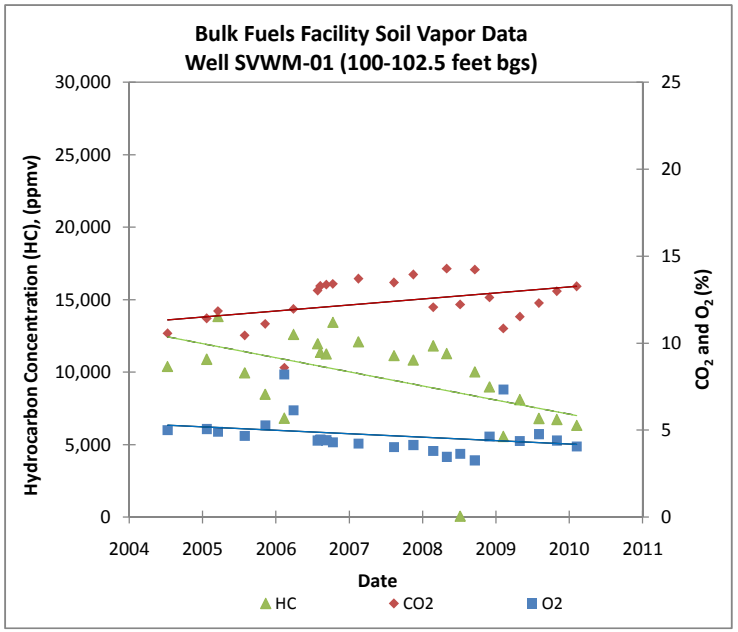


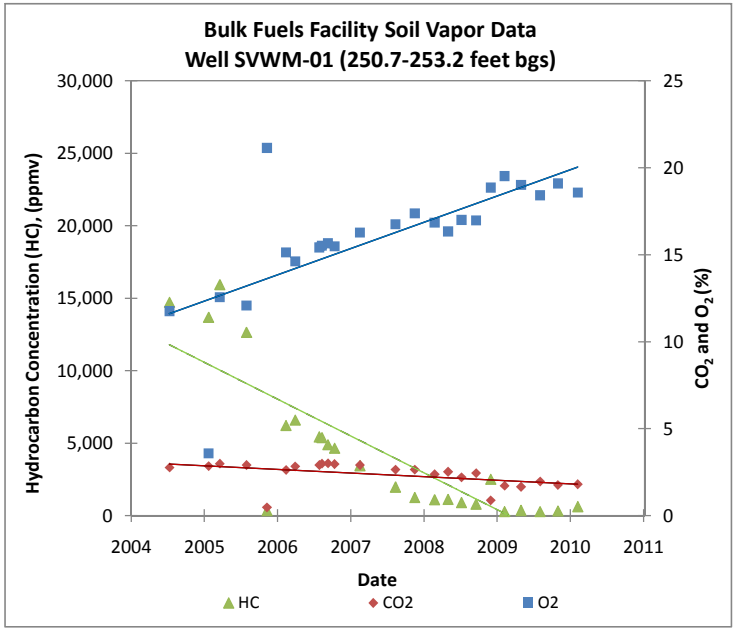
**Appendix C-5**
**BTEX Concentrations in Soil Gas vs. Time at ST-106**
**Bulk Fuels Facility Monitoring Wells**
**Kirtland Air Force Base**

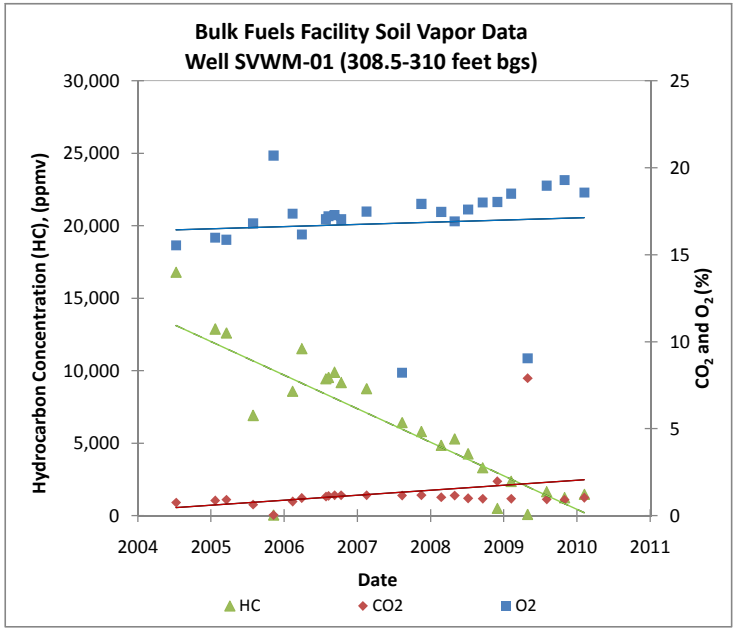


**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

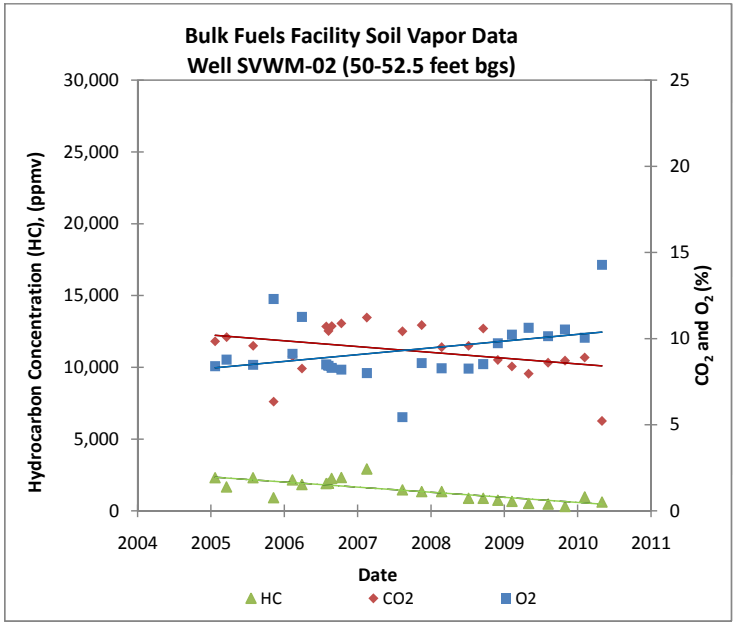


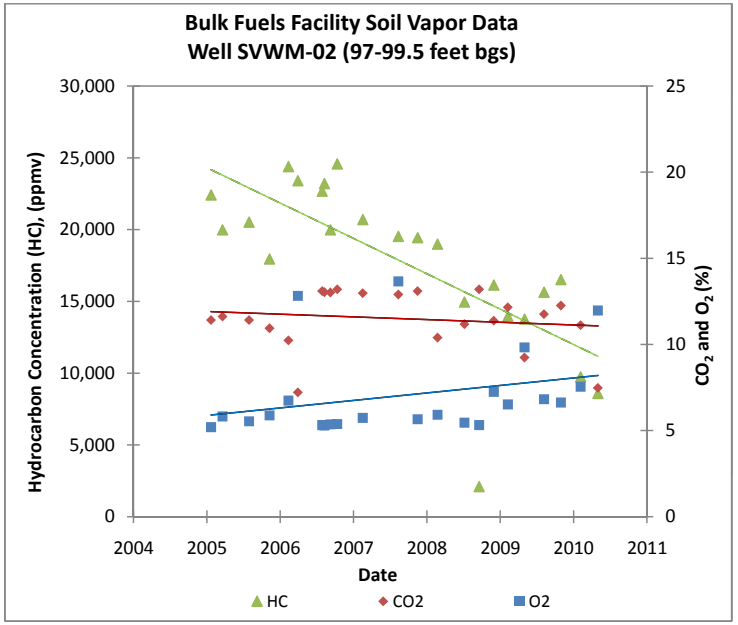



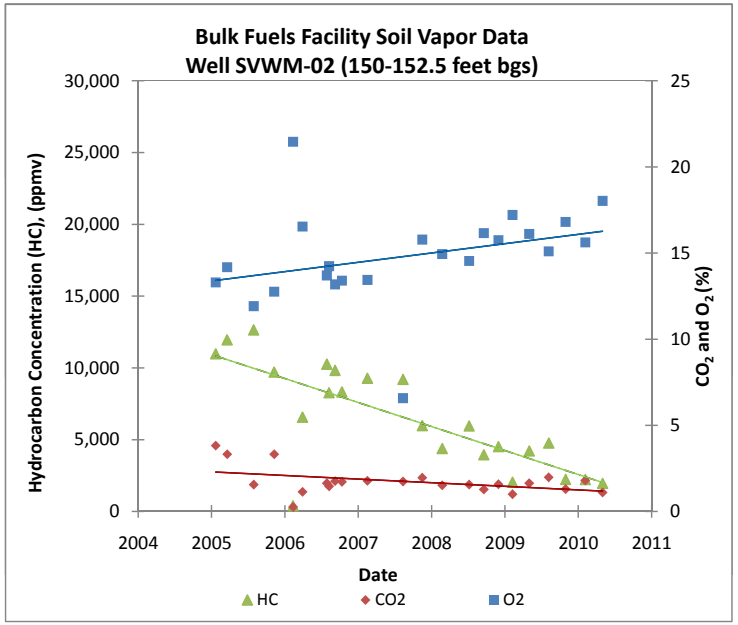



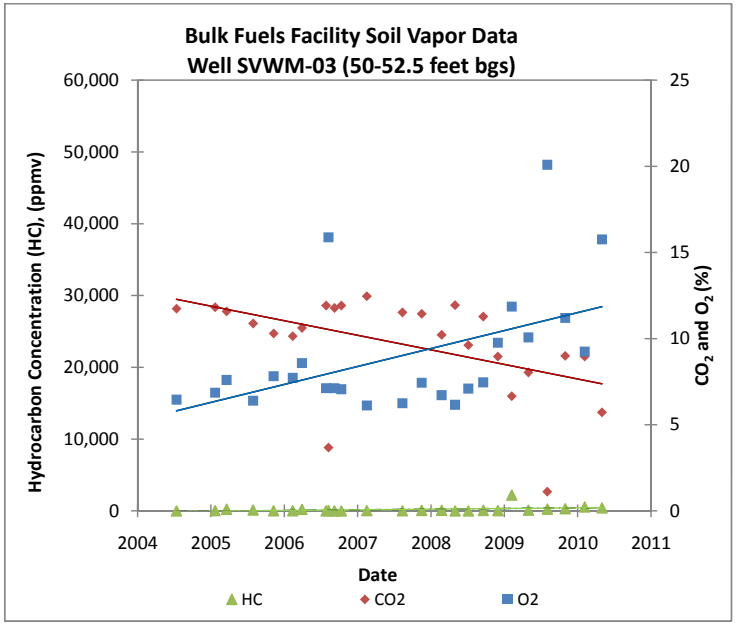
**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

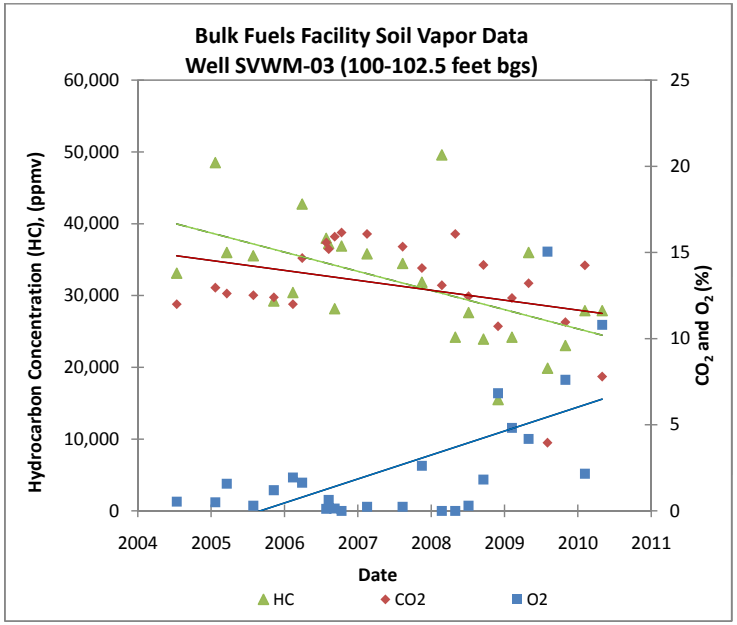


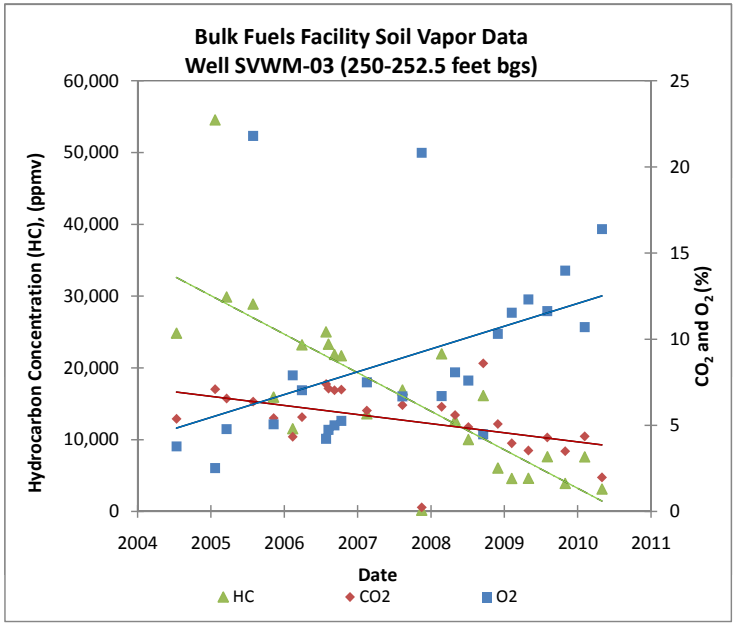



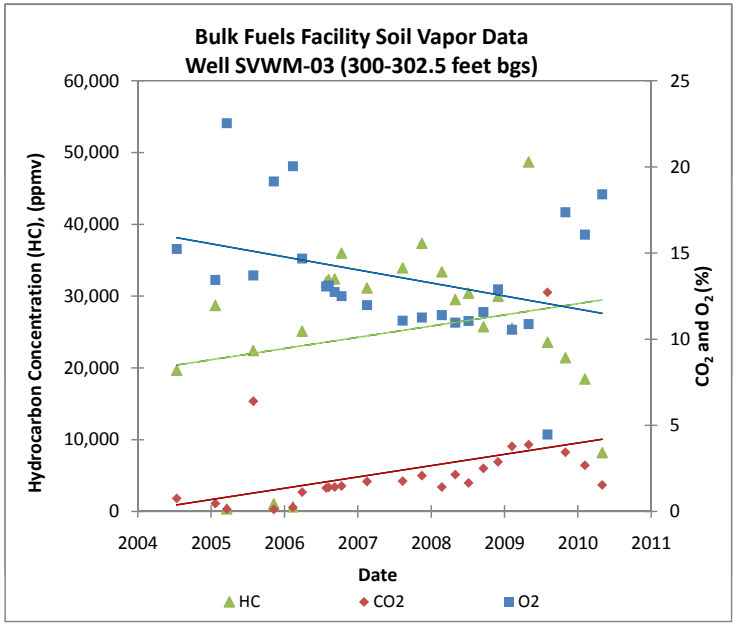



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

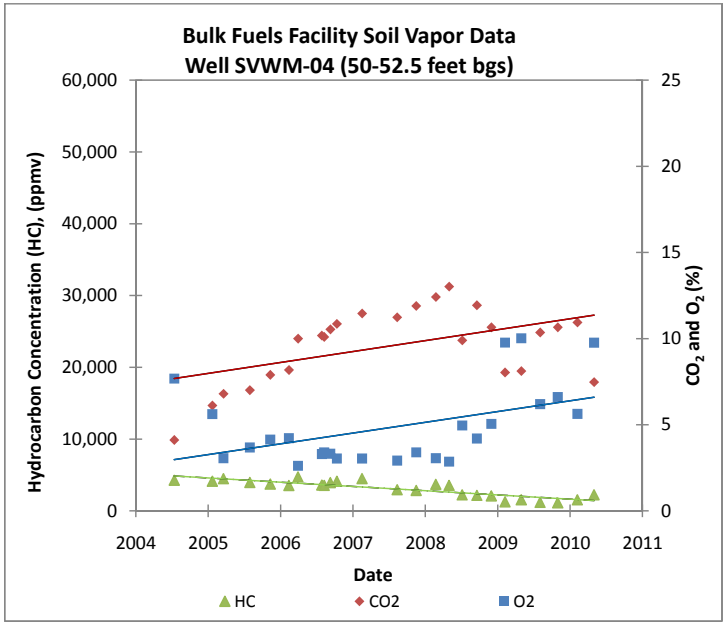


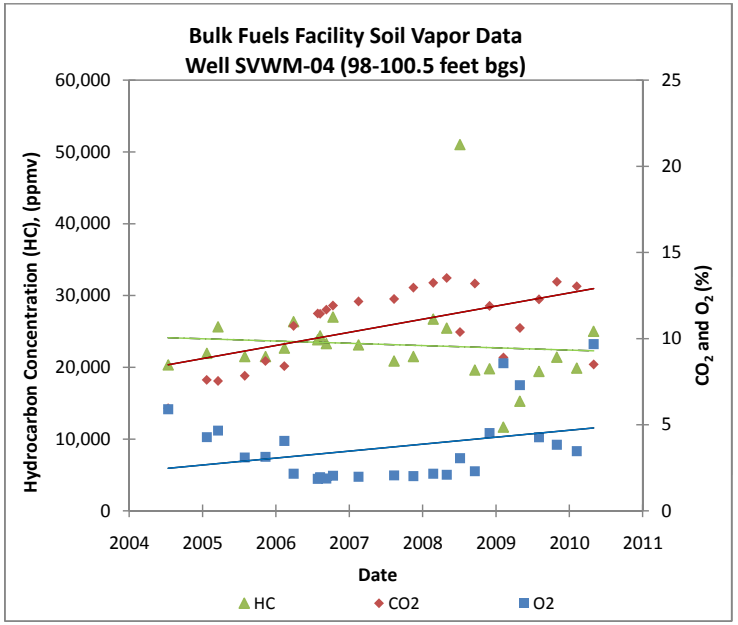



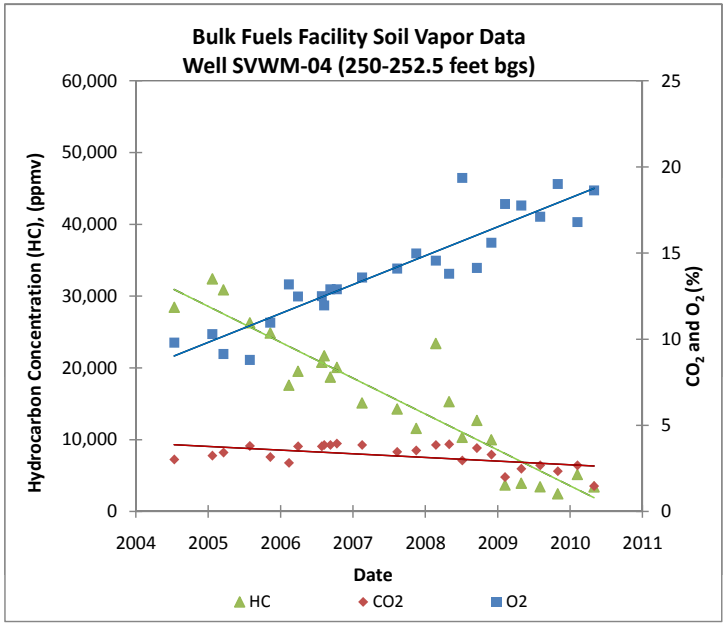



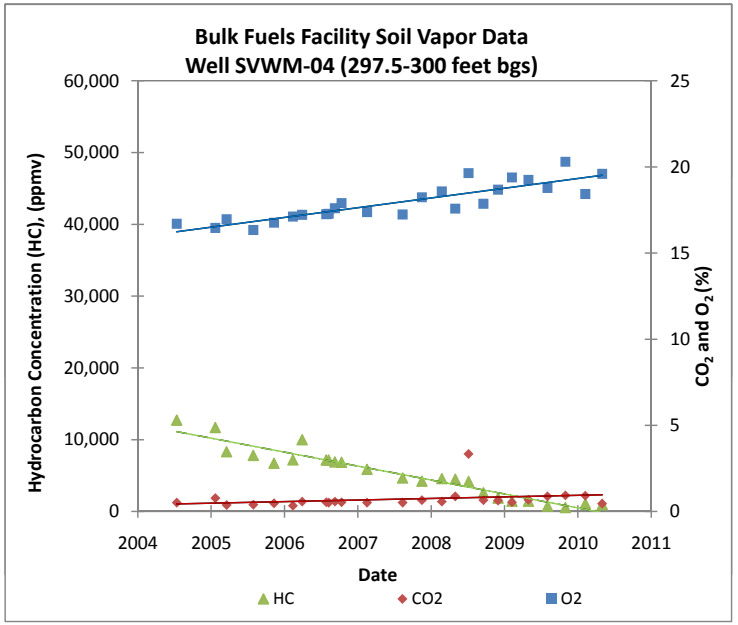



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

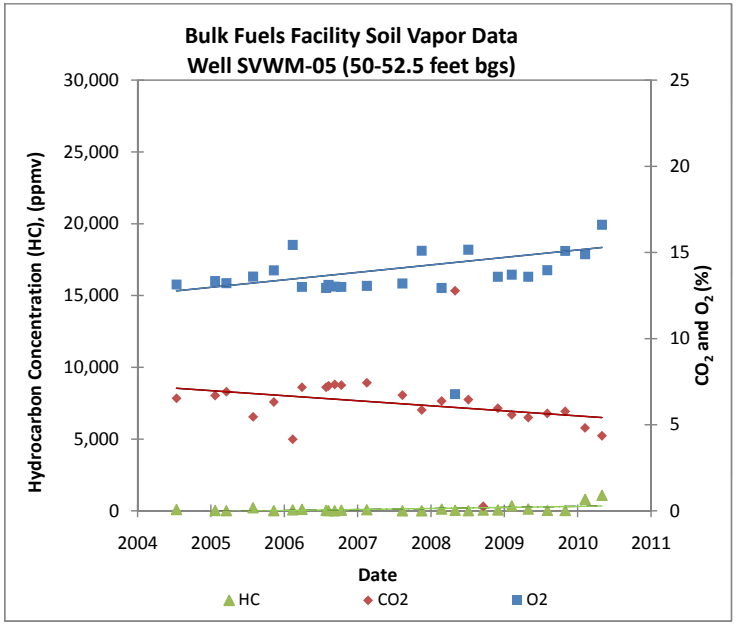


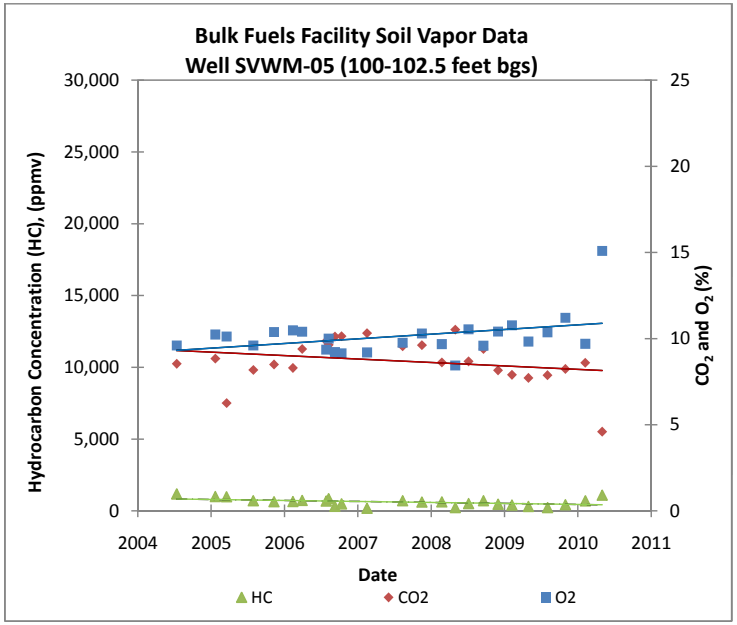



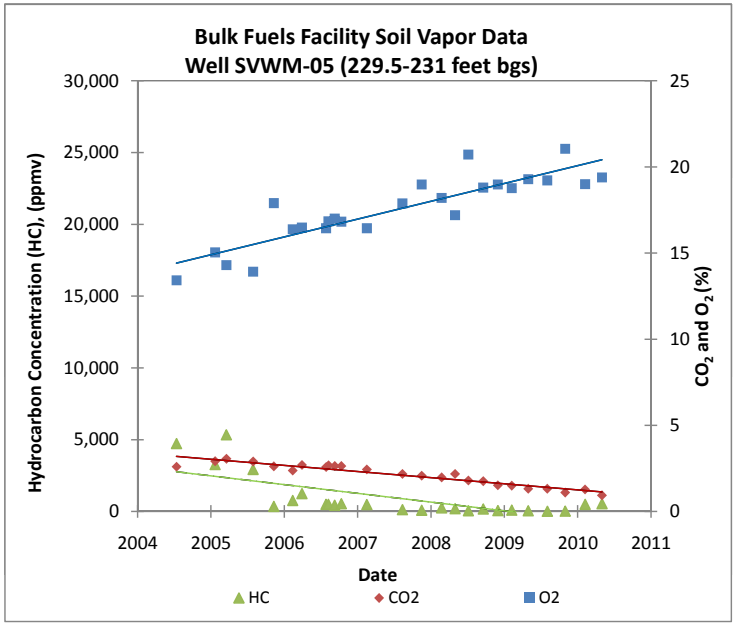



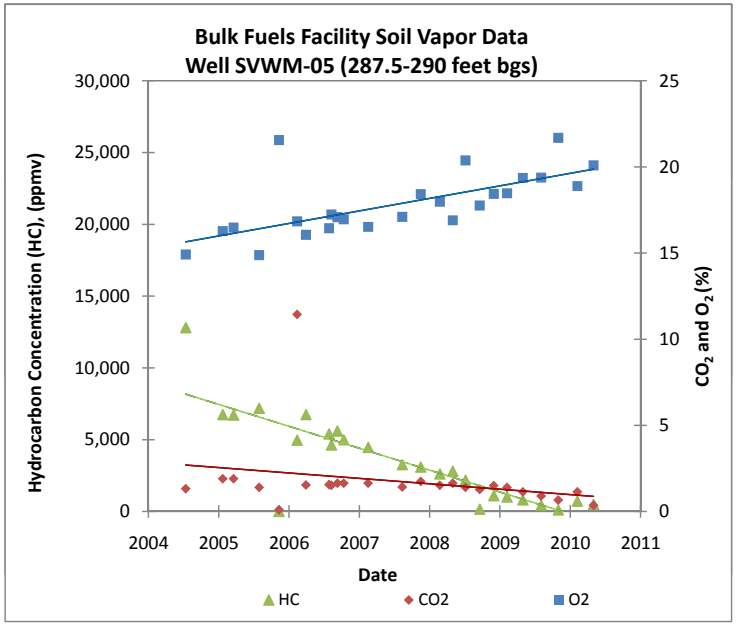



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

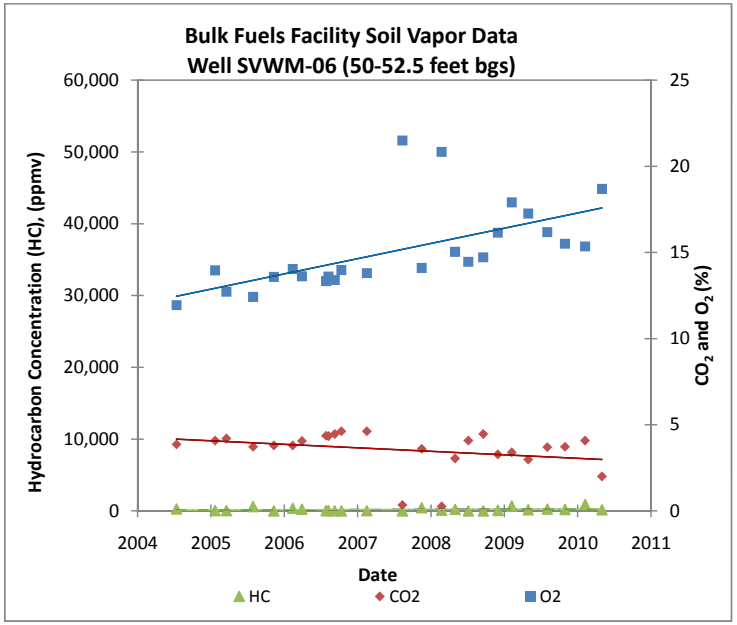


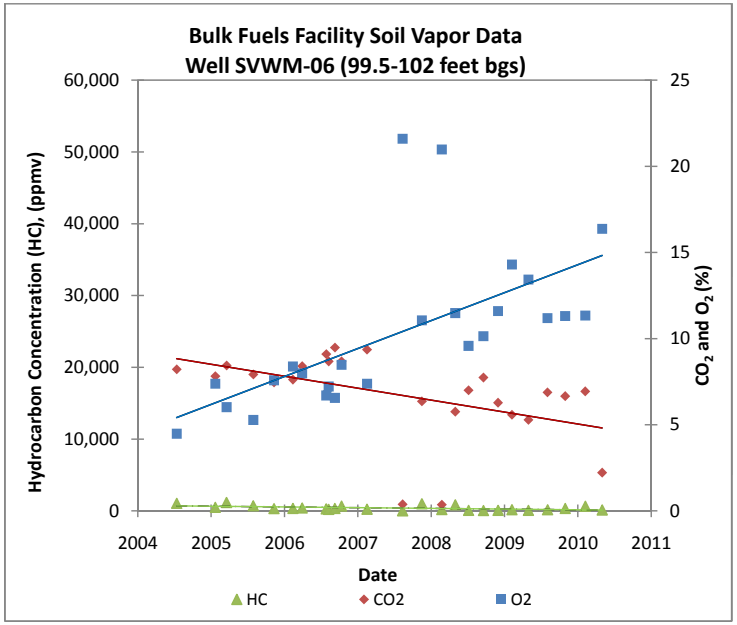



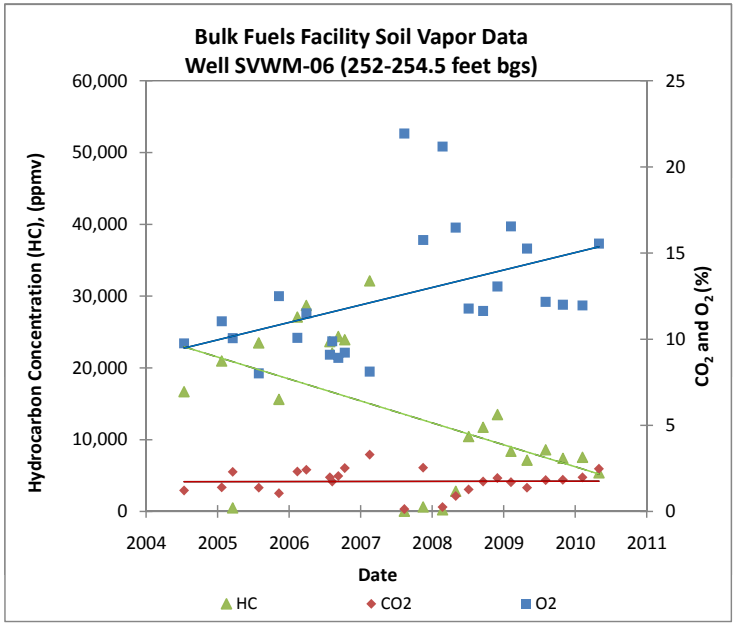



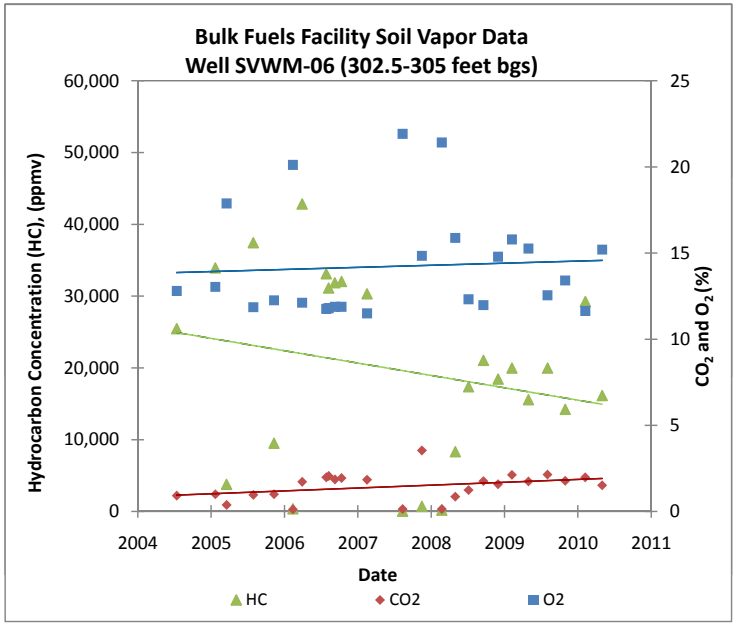



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

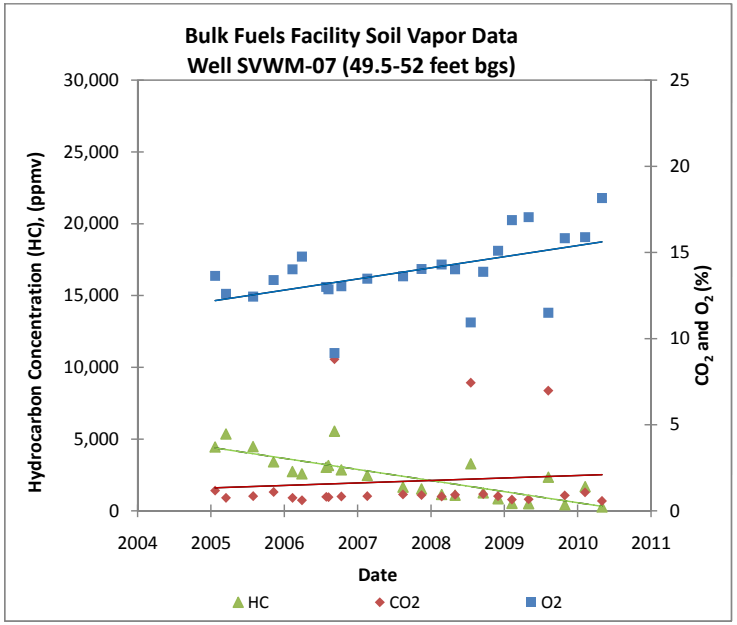


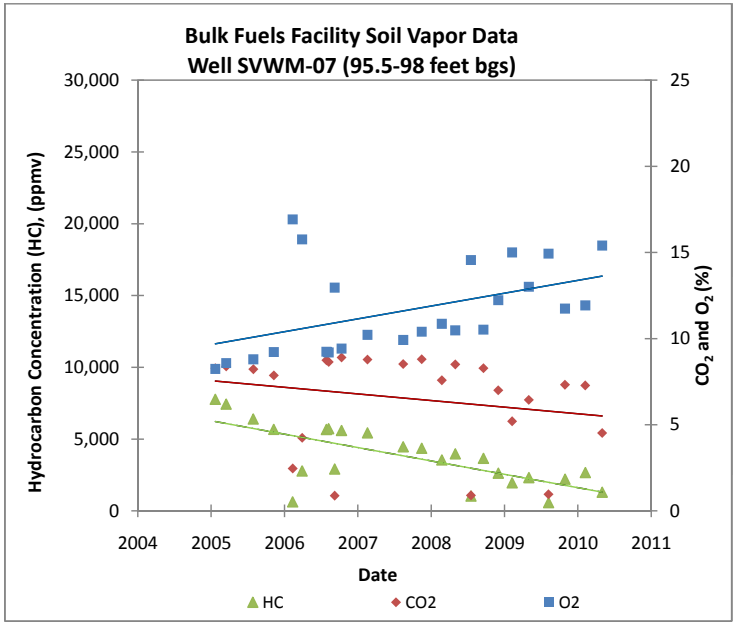



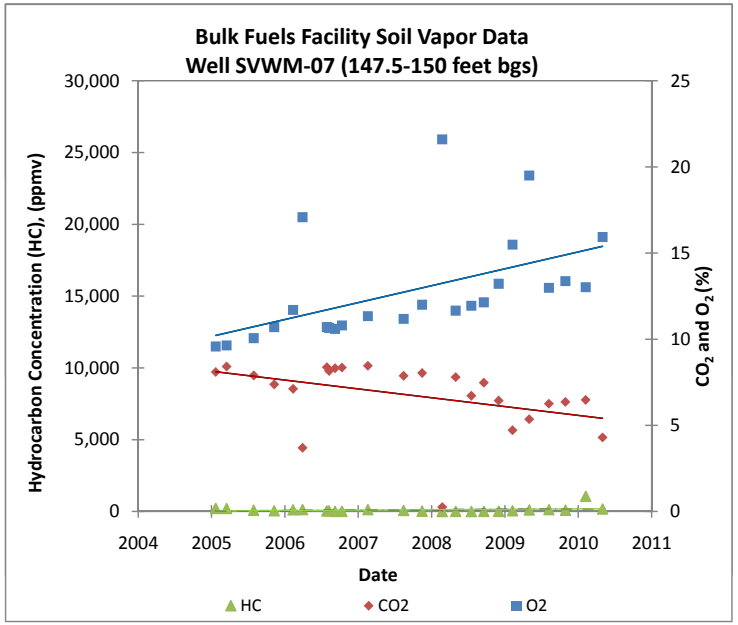



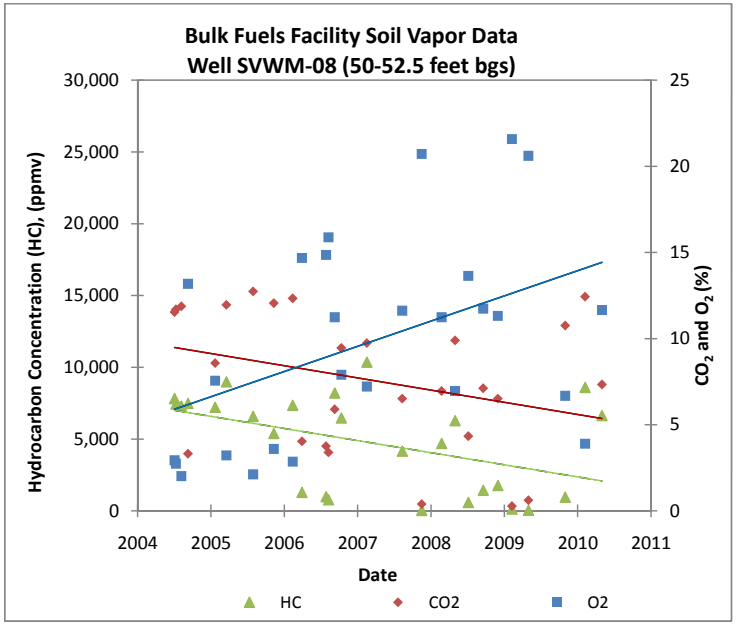
**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

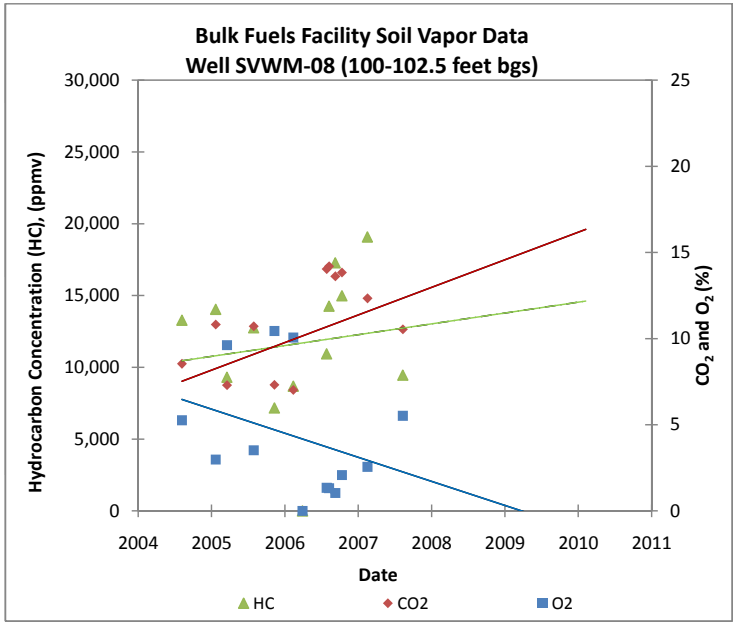


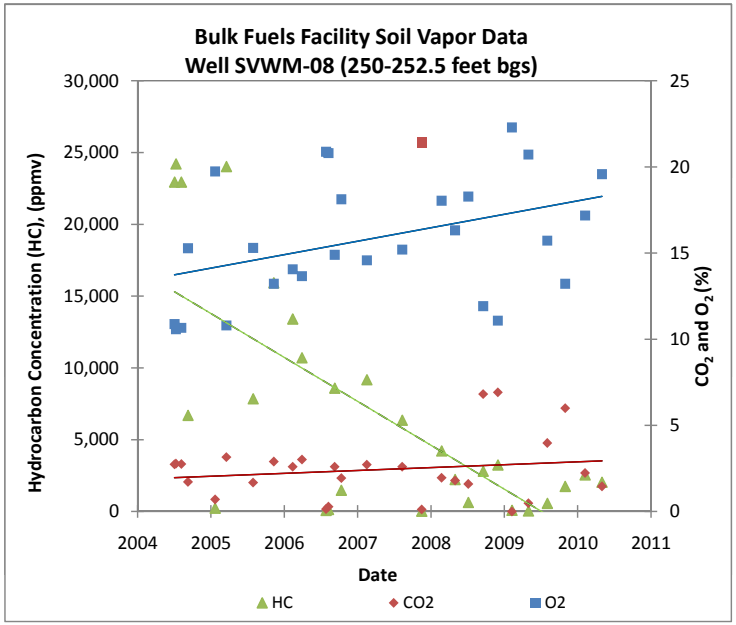



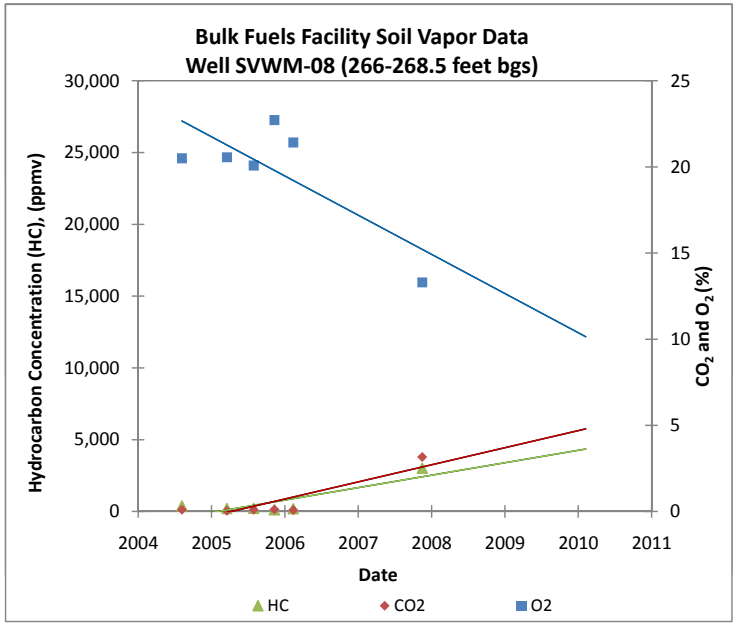



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

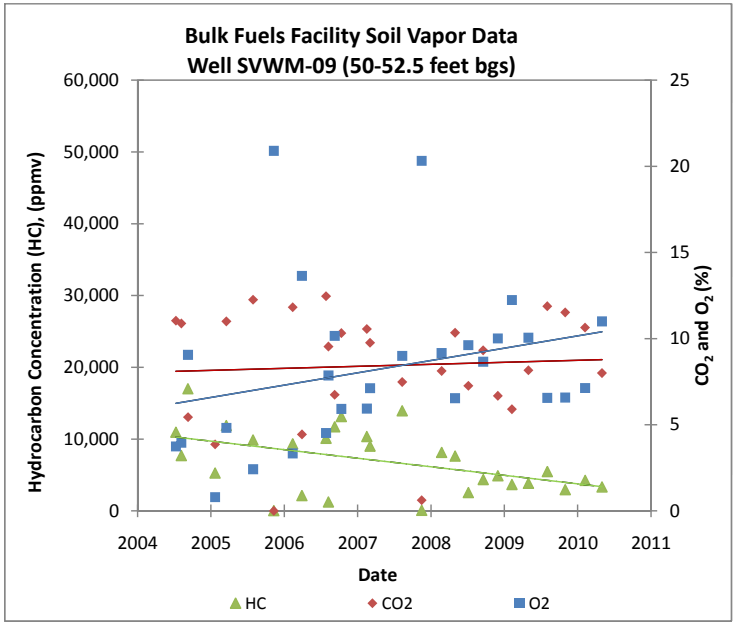


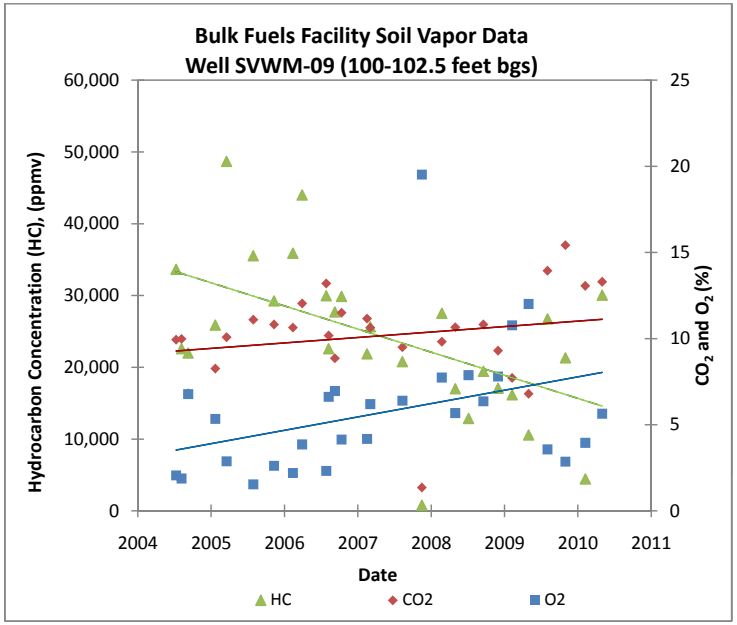



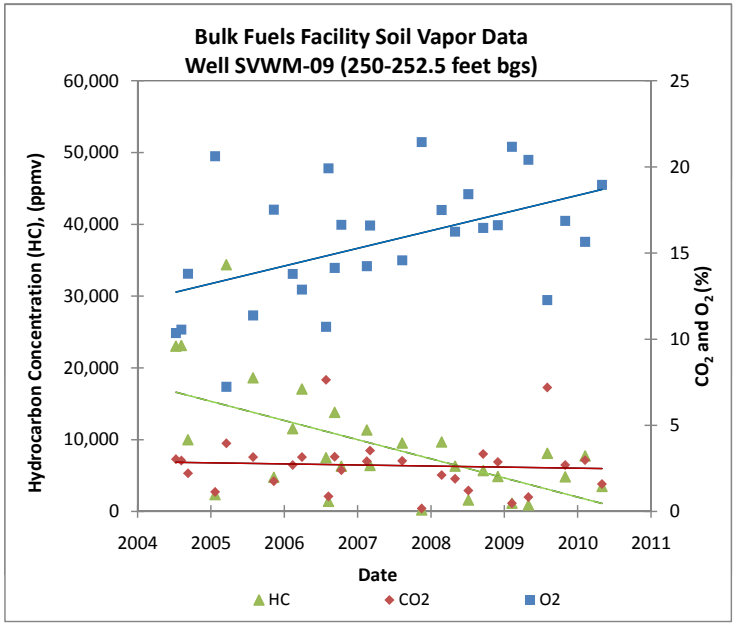



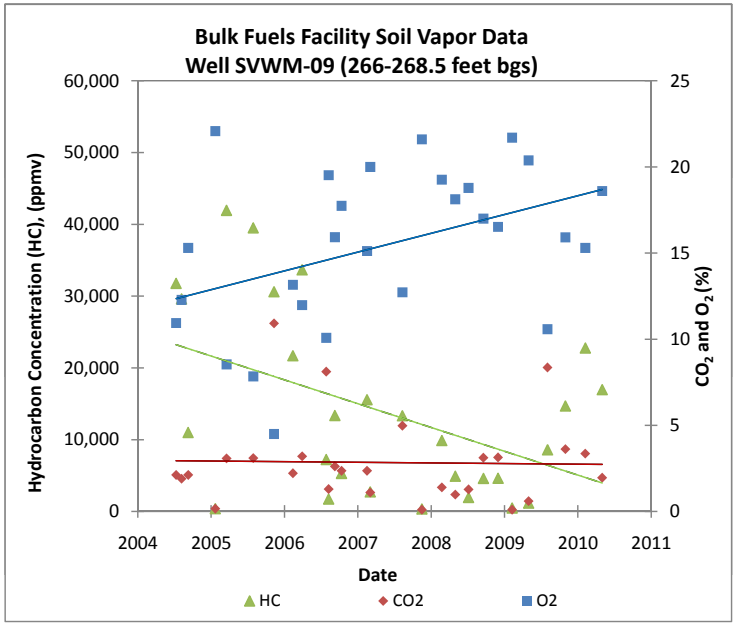



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

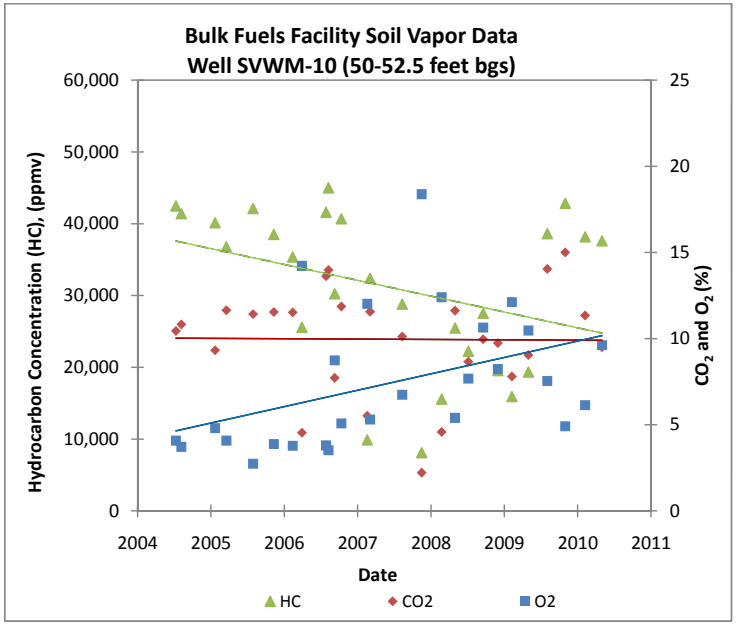


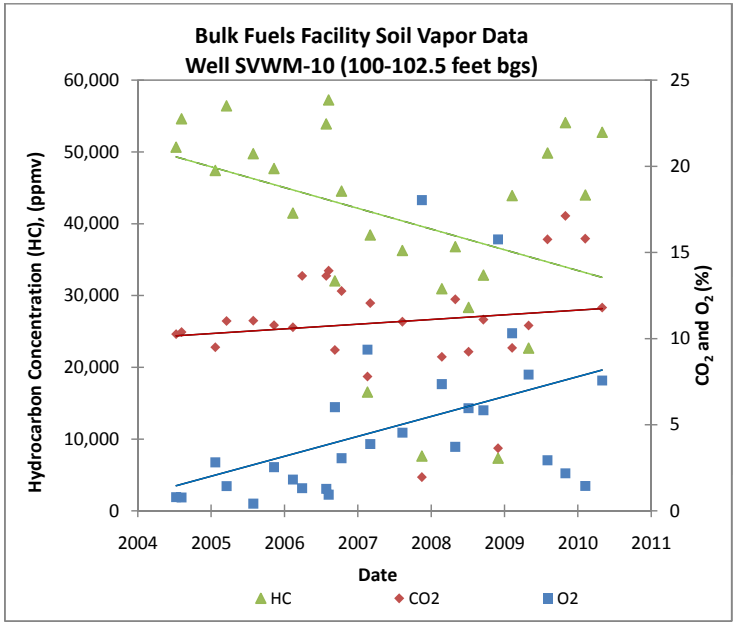



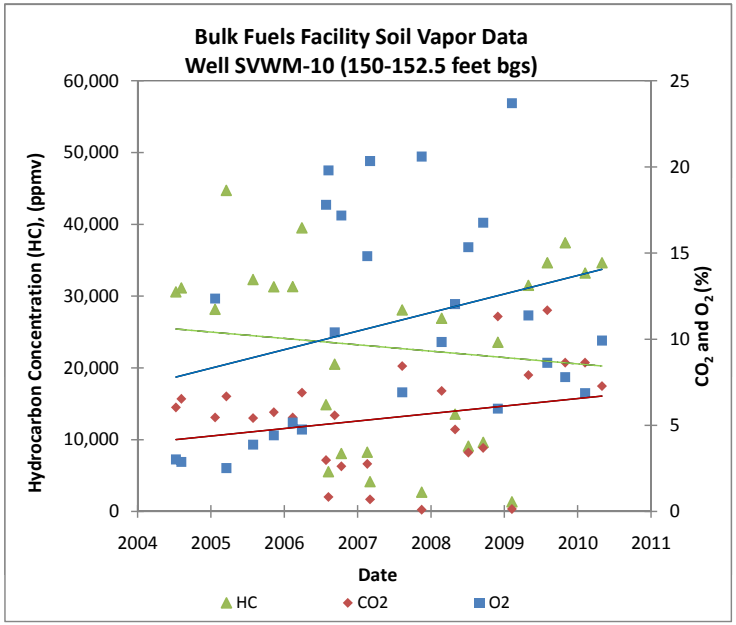



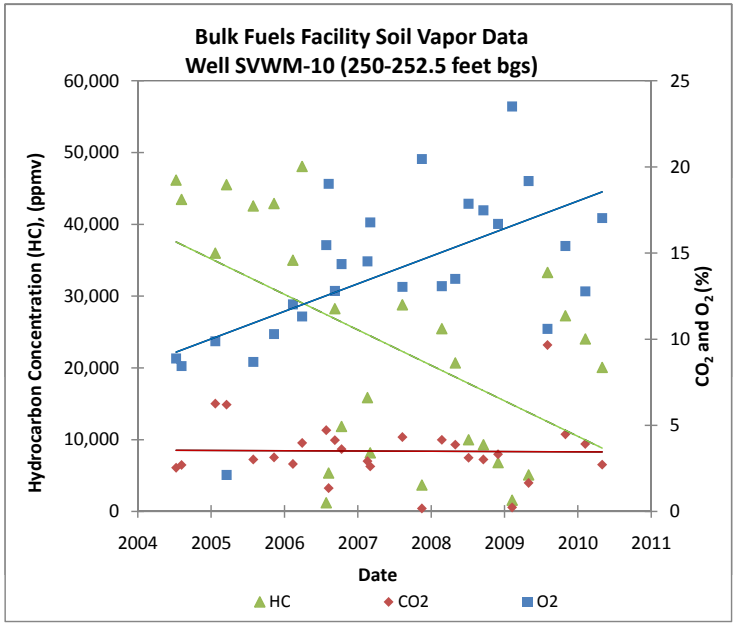



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

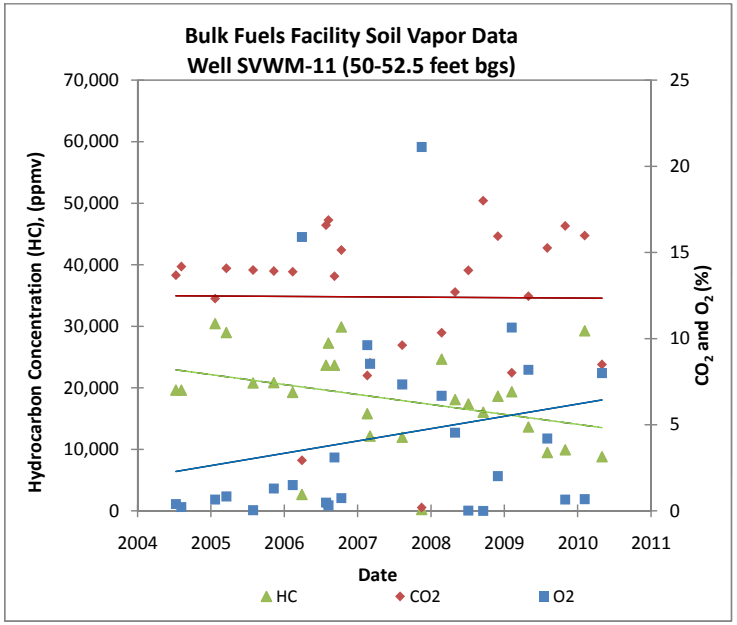


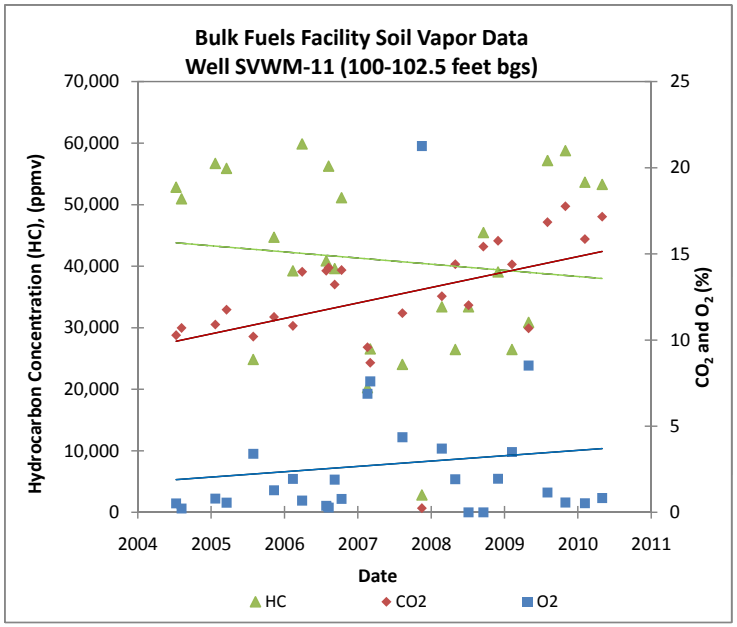



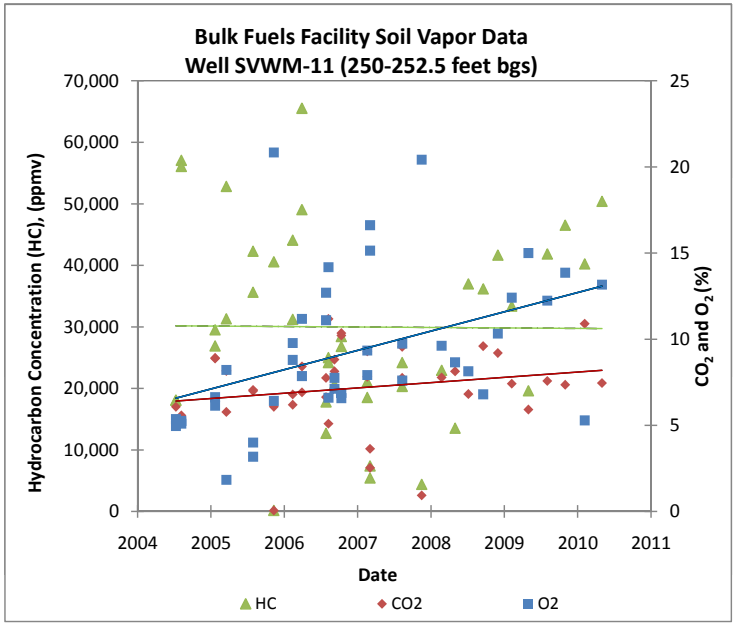



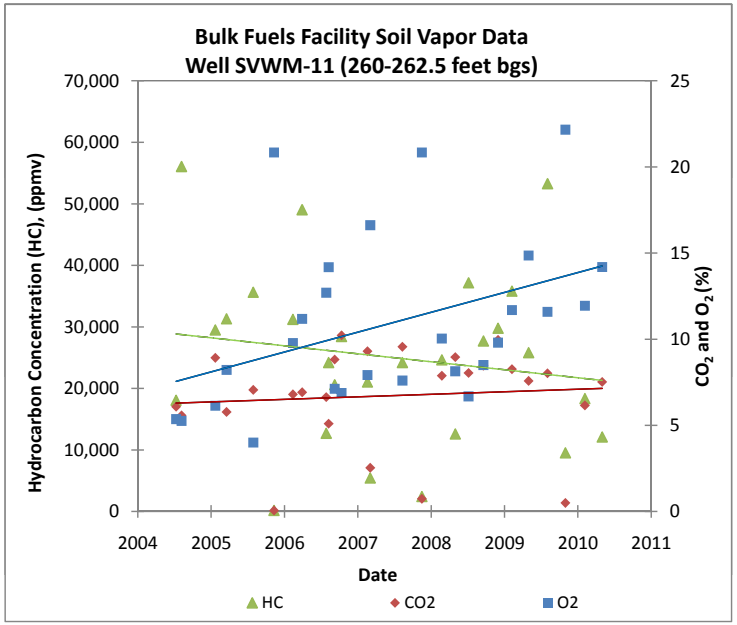



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

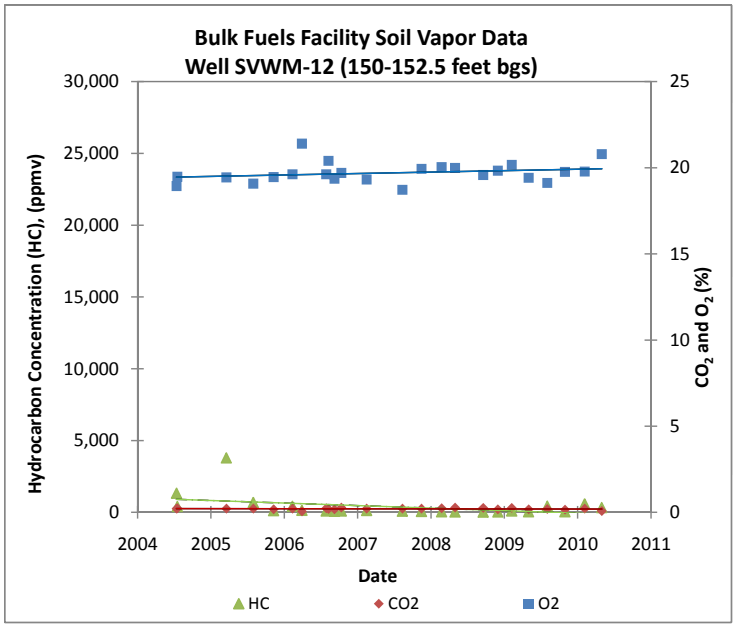


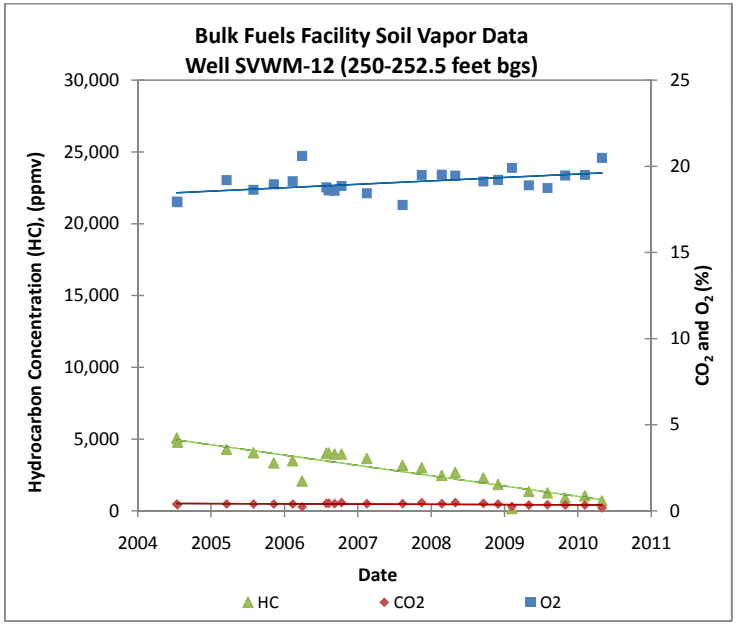



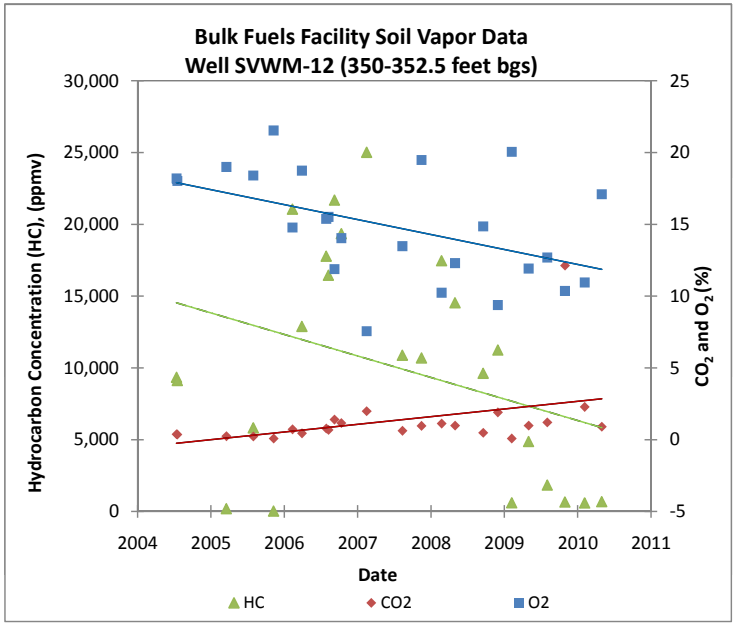



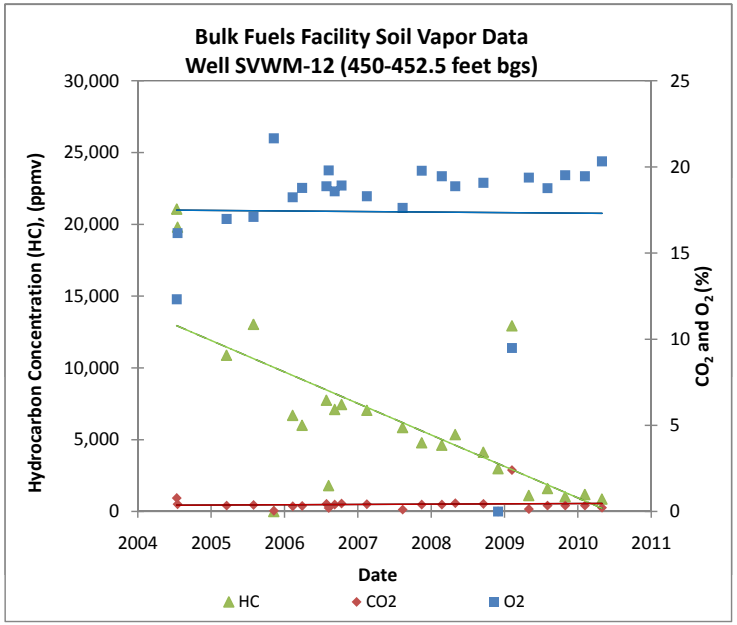



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**

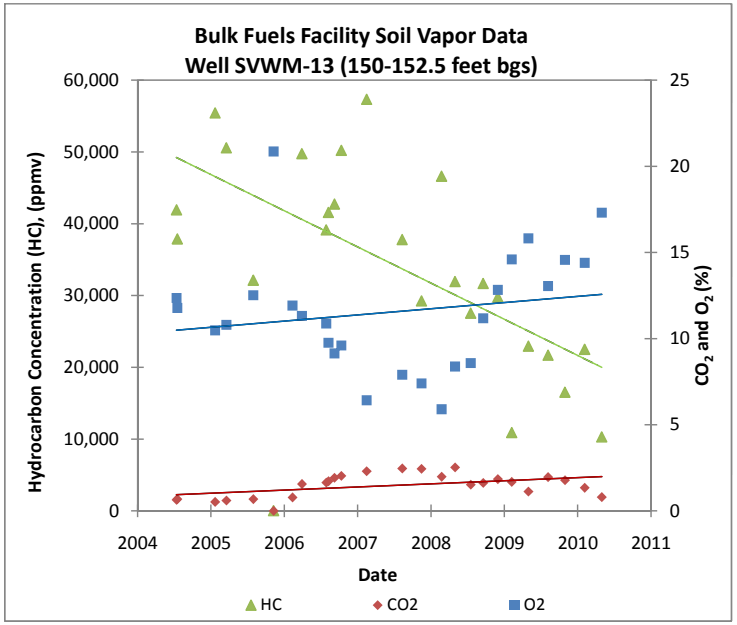


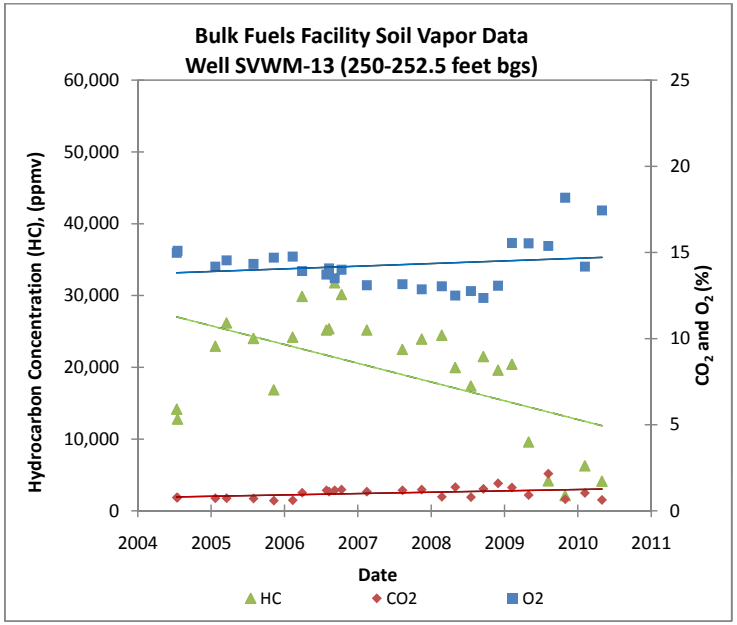



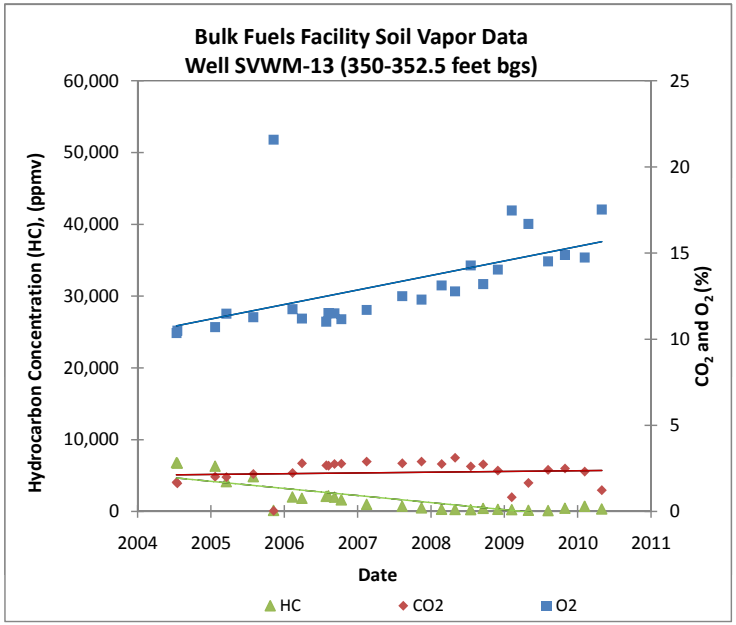



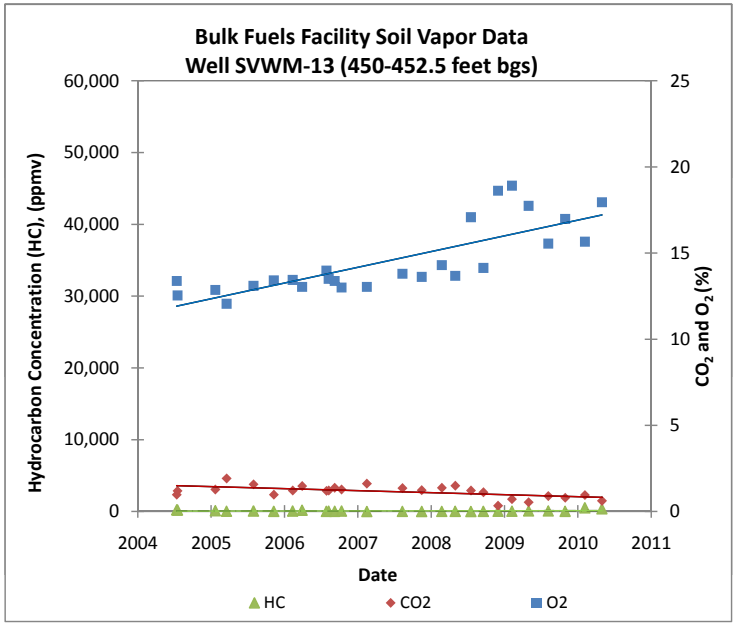



**Appendix C-6**
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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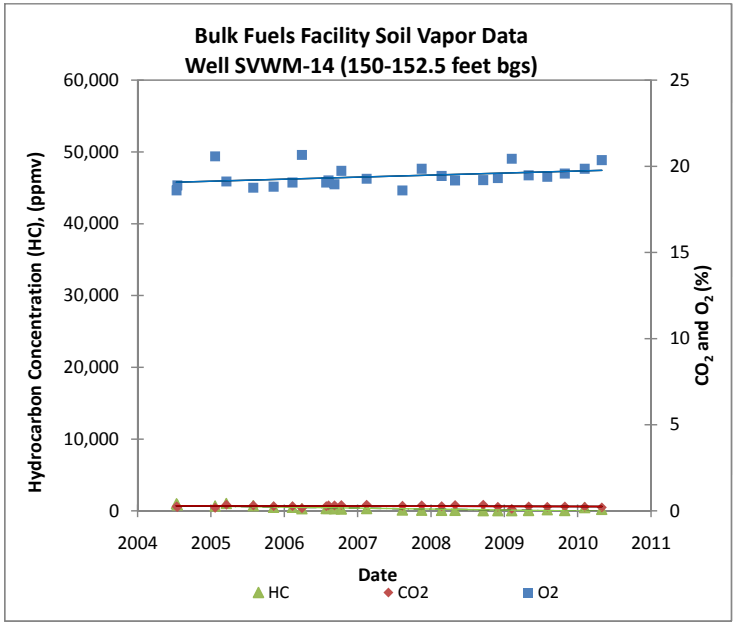
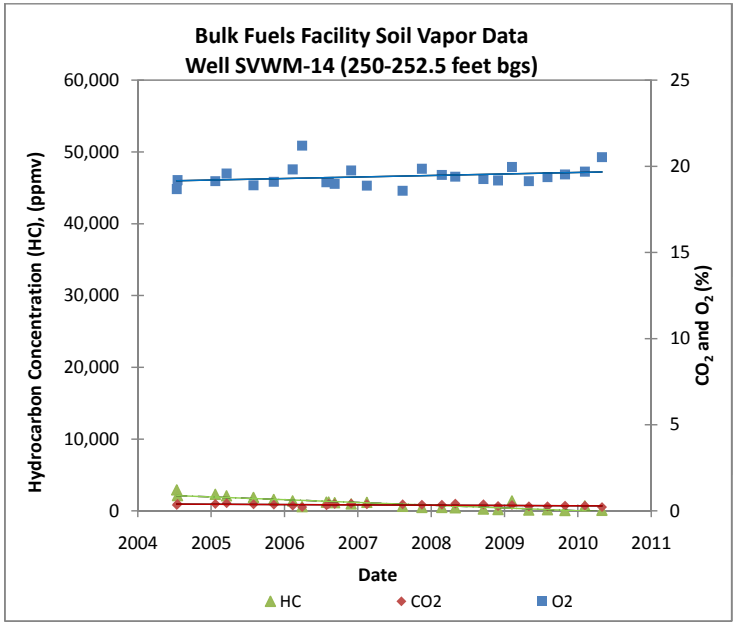
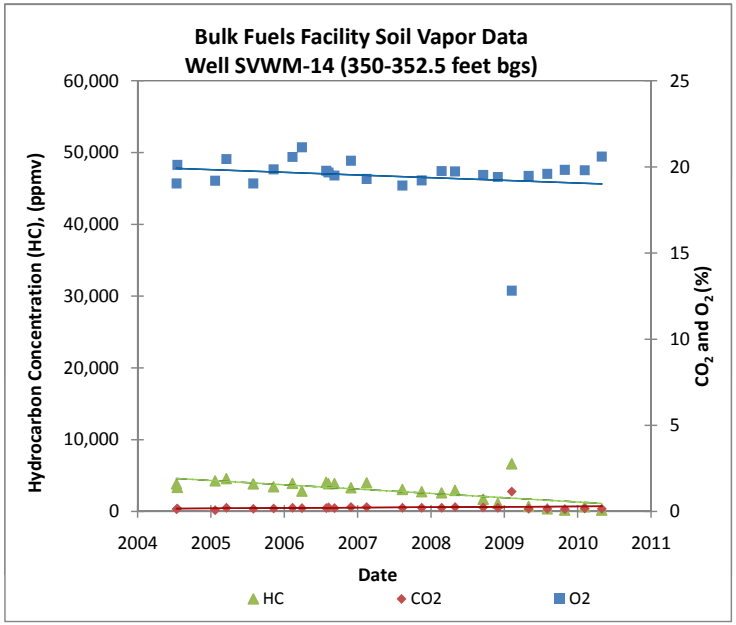
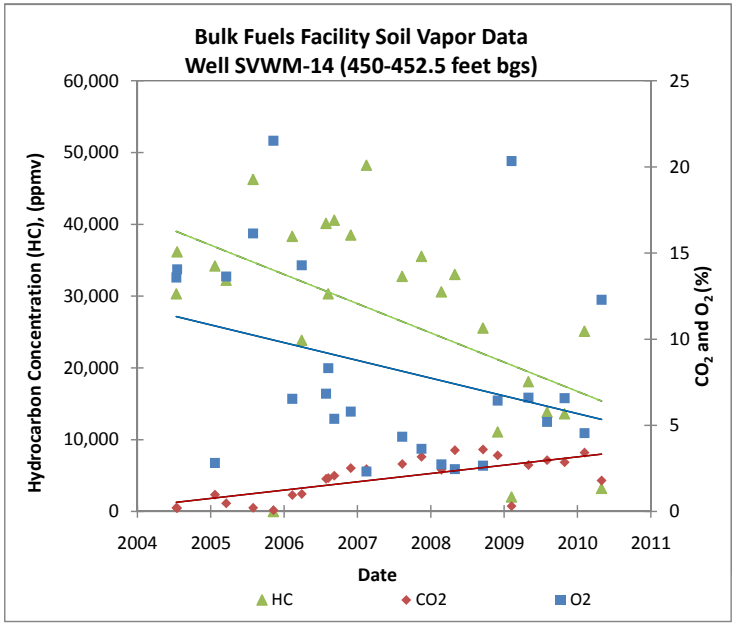
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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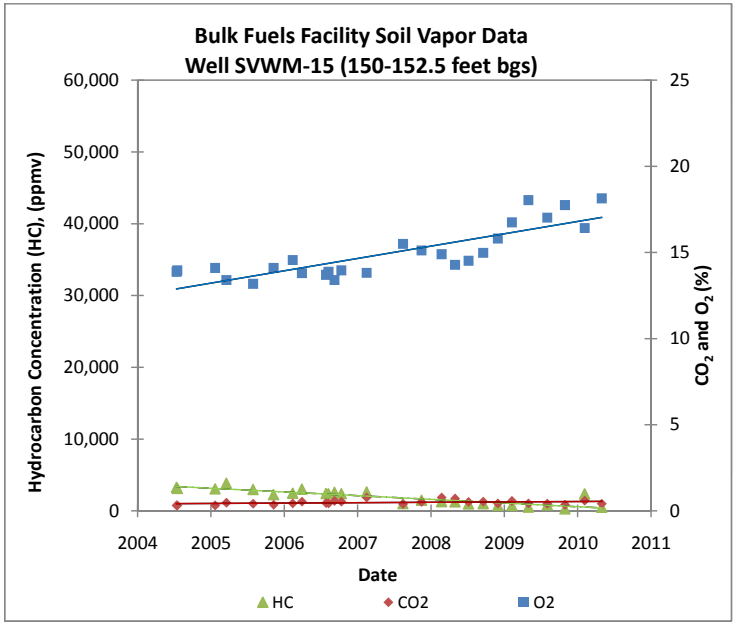
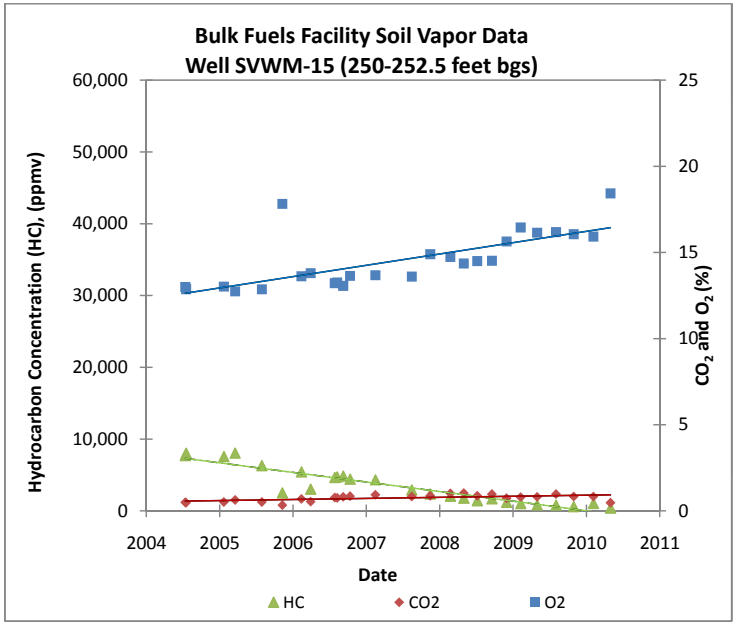
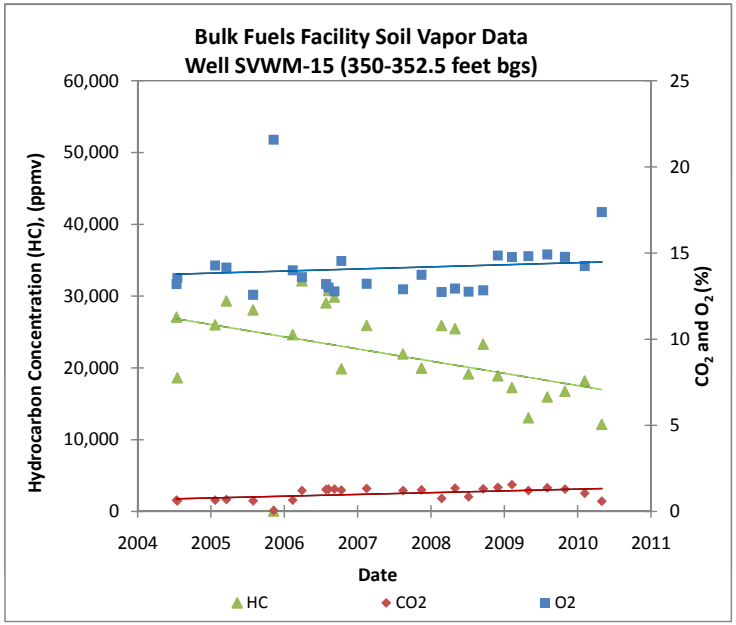
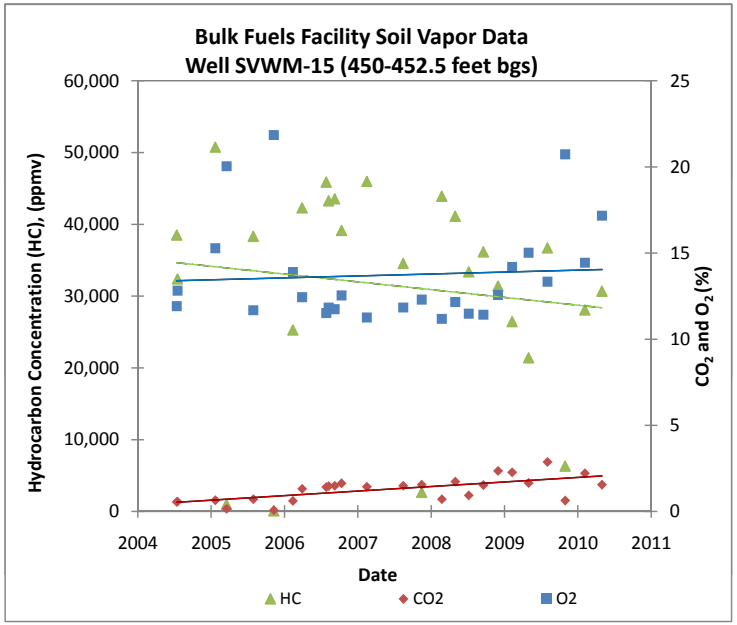
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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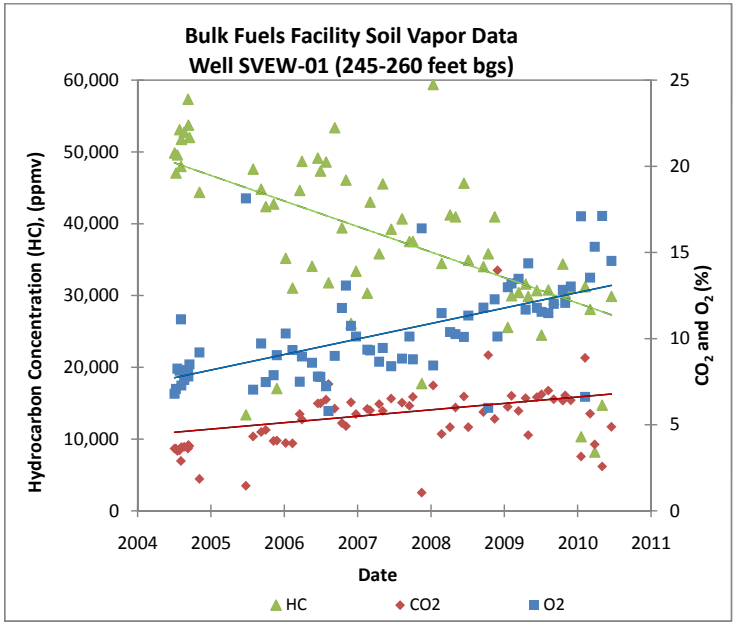
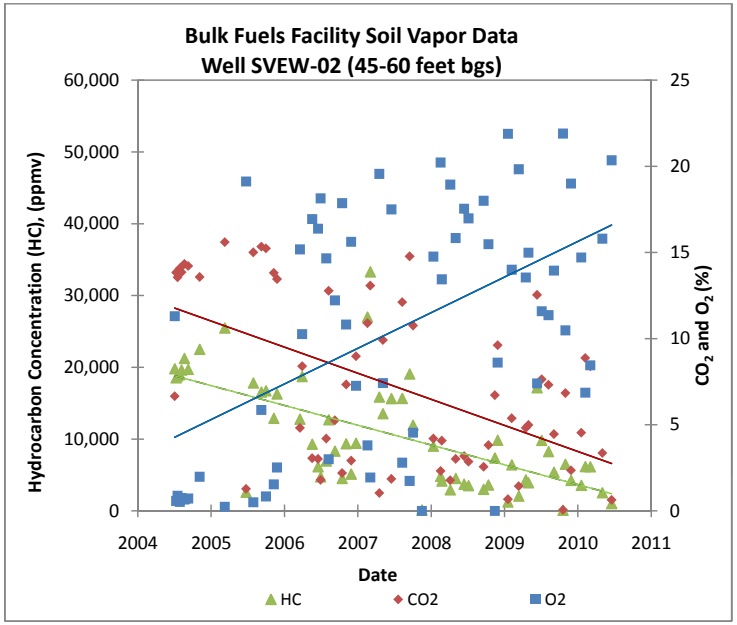
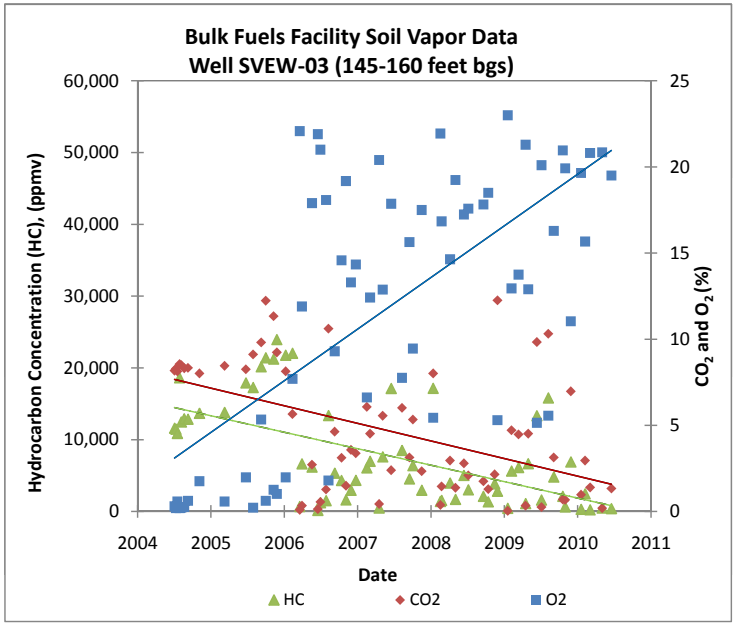
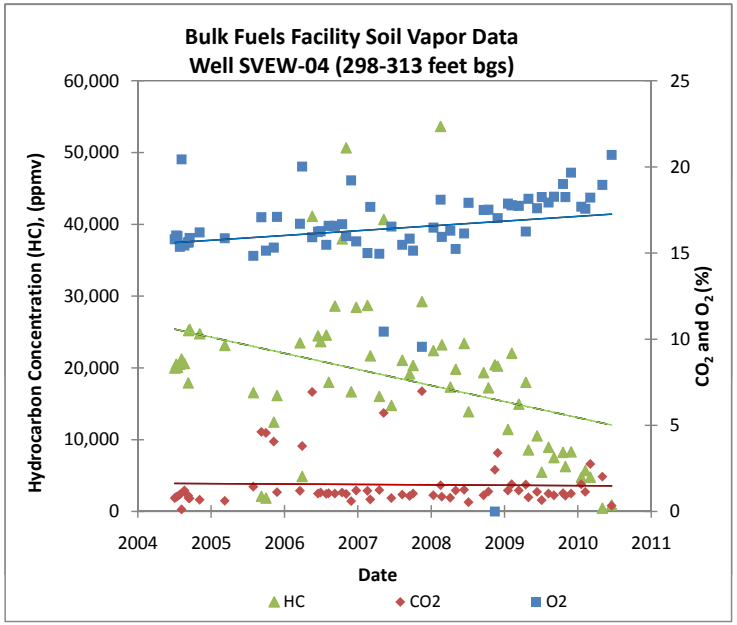
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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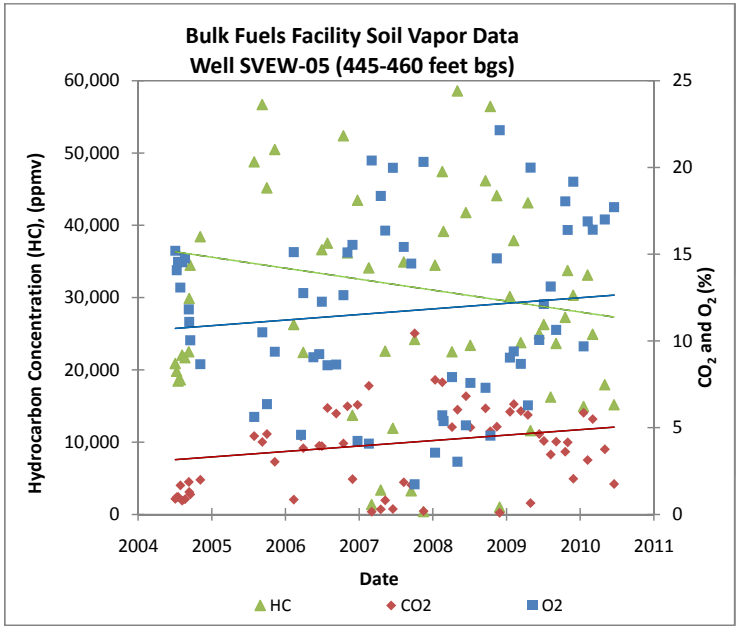
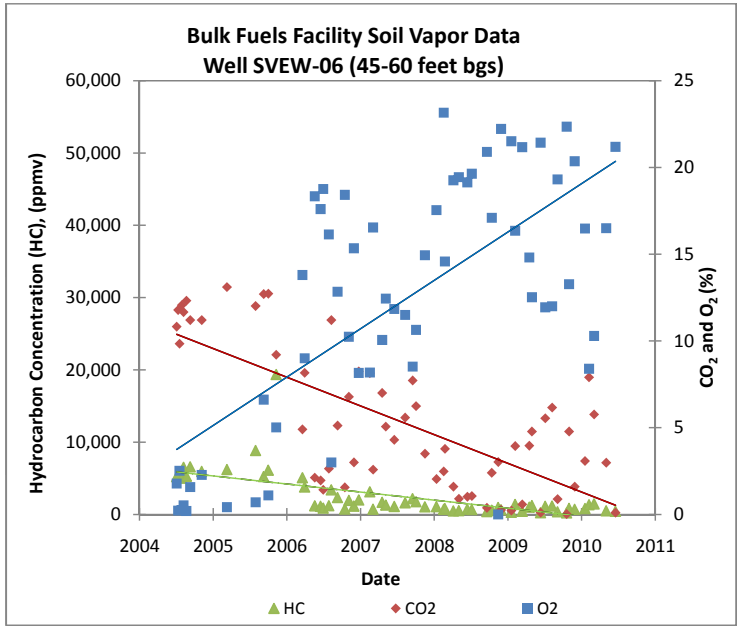
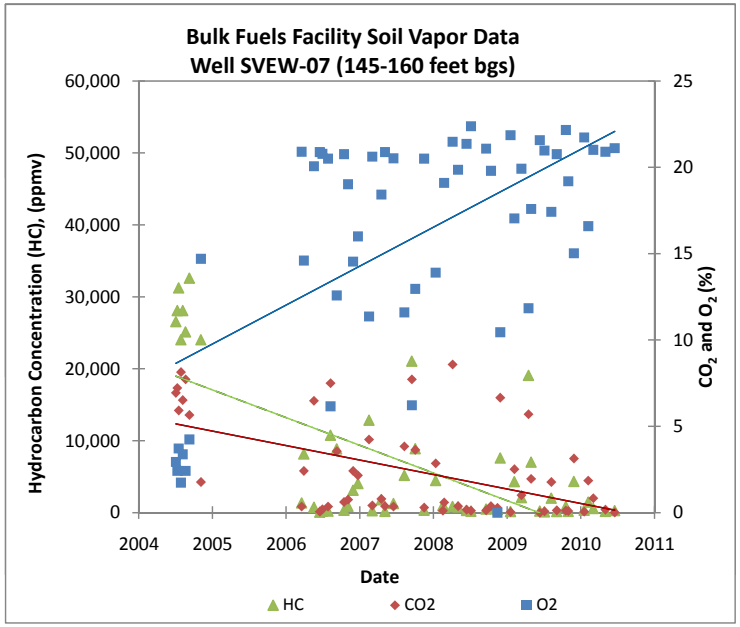
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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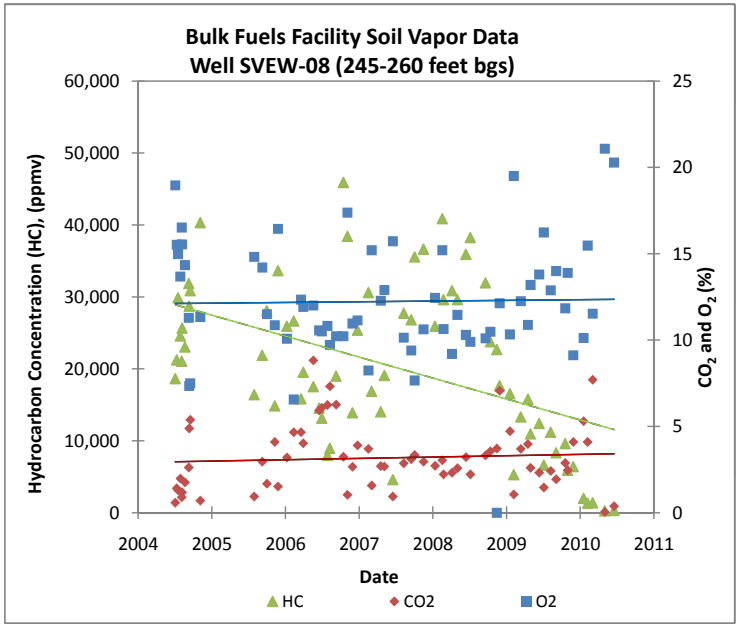
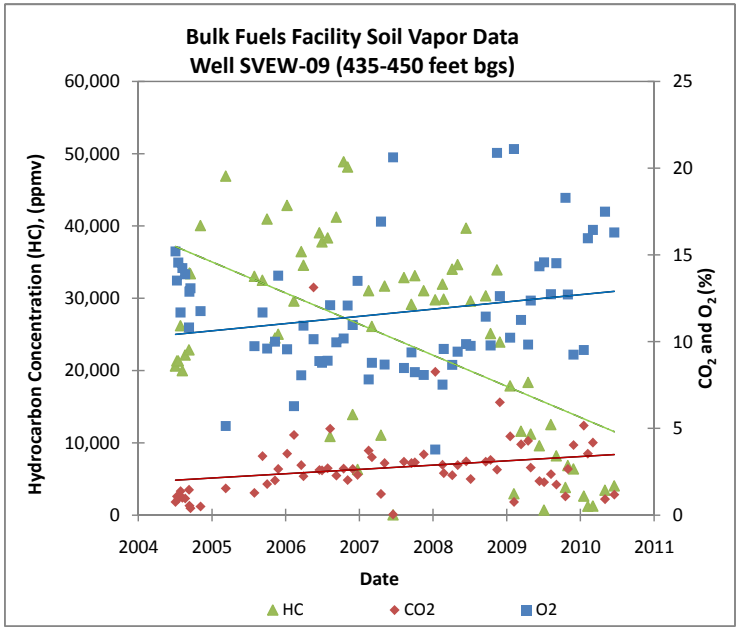
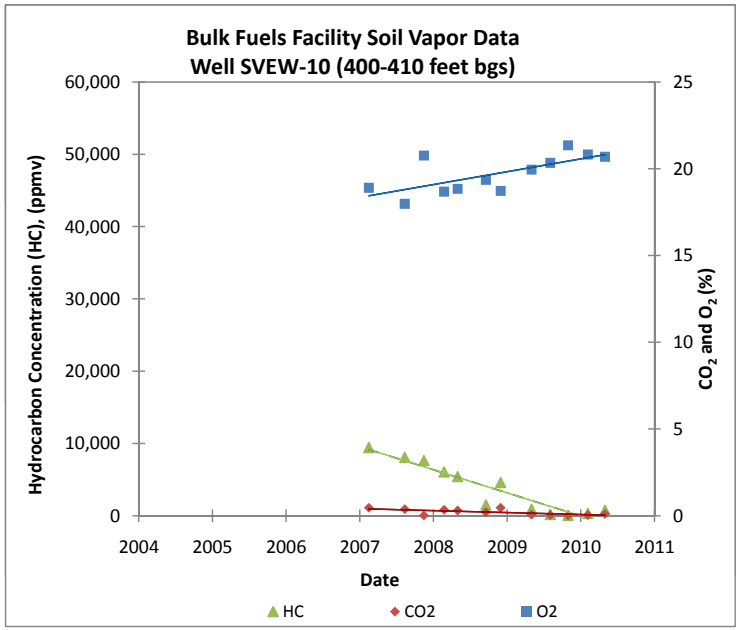
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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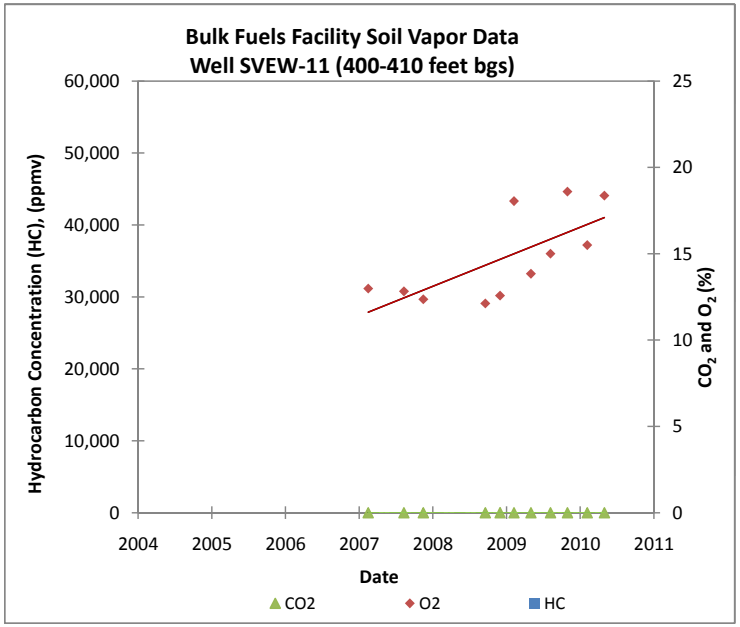
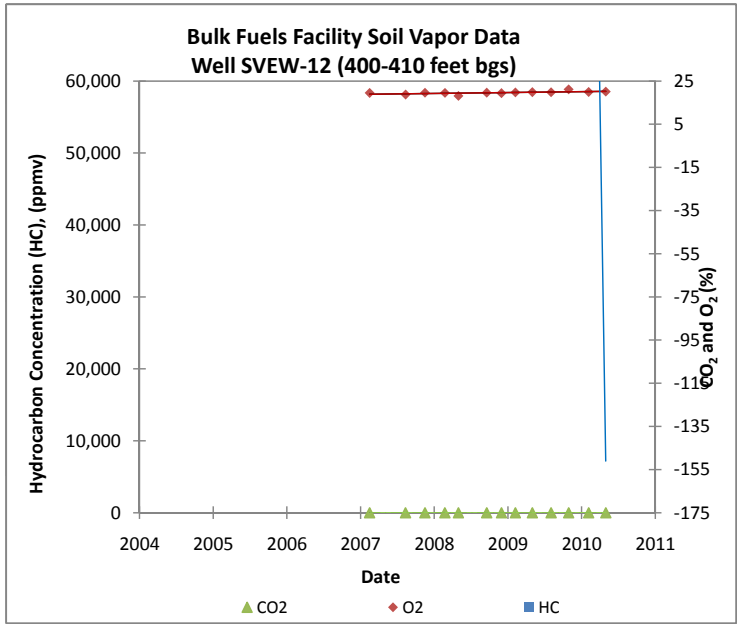
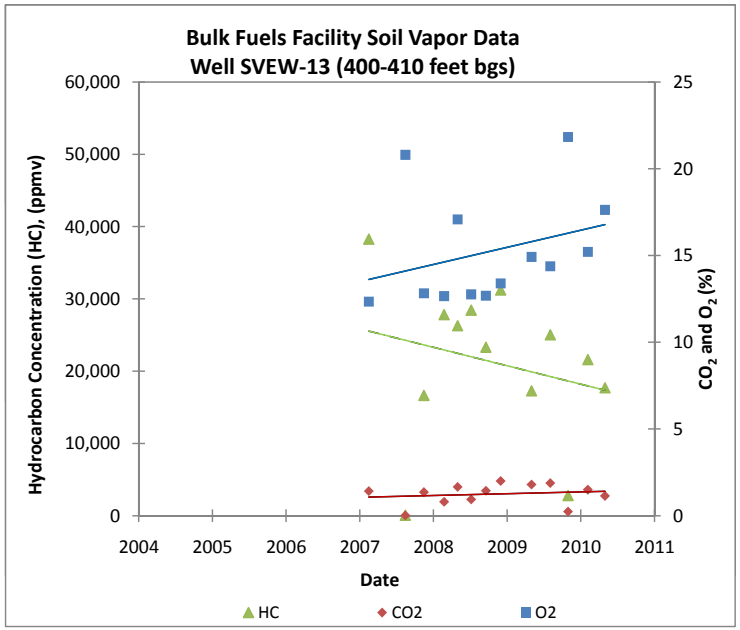
**Soil Vapor Total Petroleum Hydrocarbons, Oxygen, and Carbon Dioxide Graphs**



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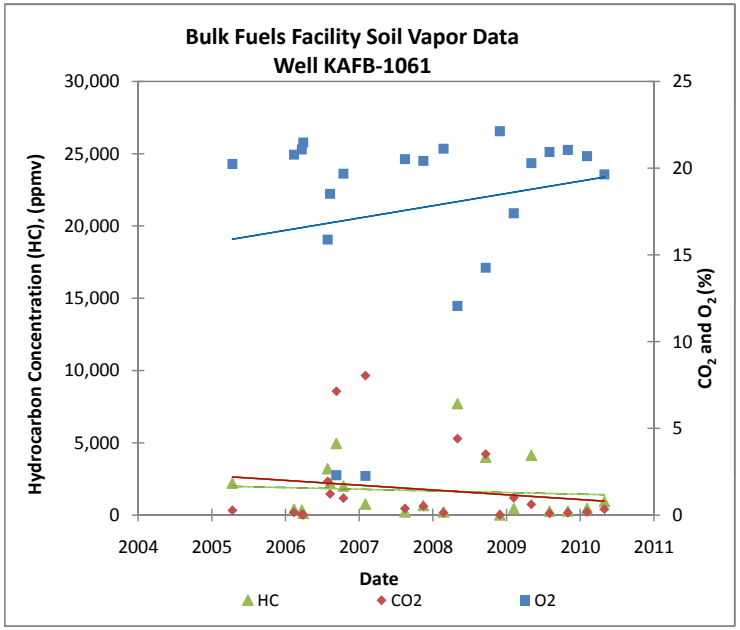


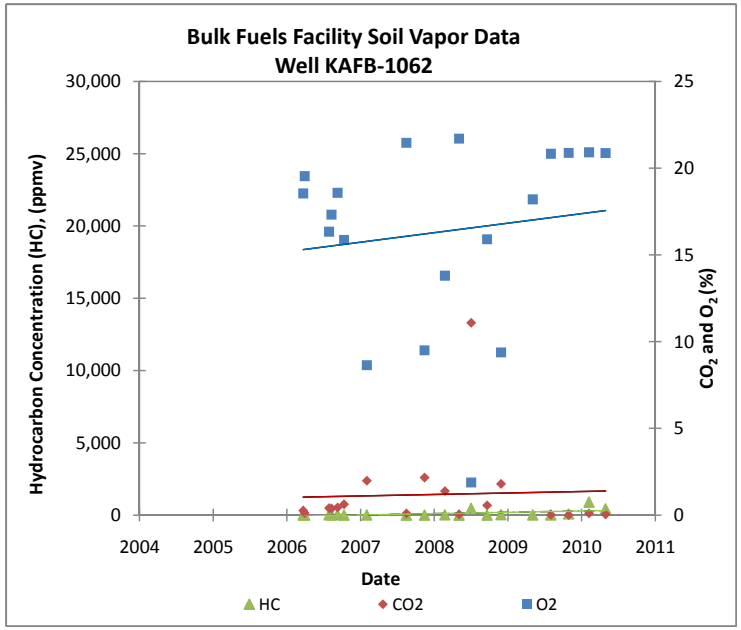


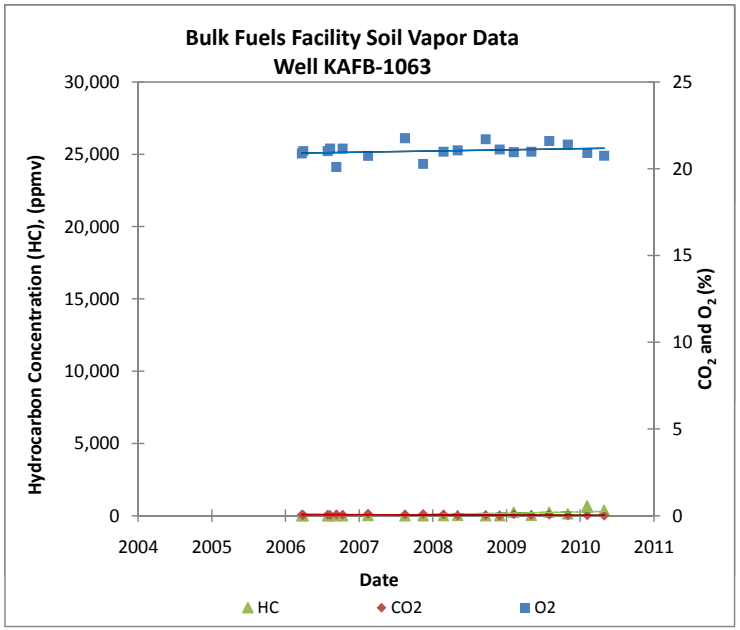


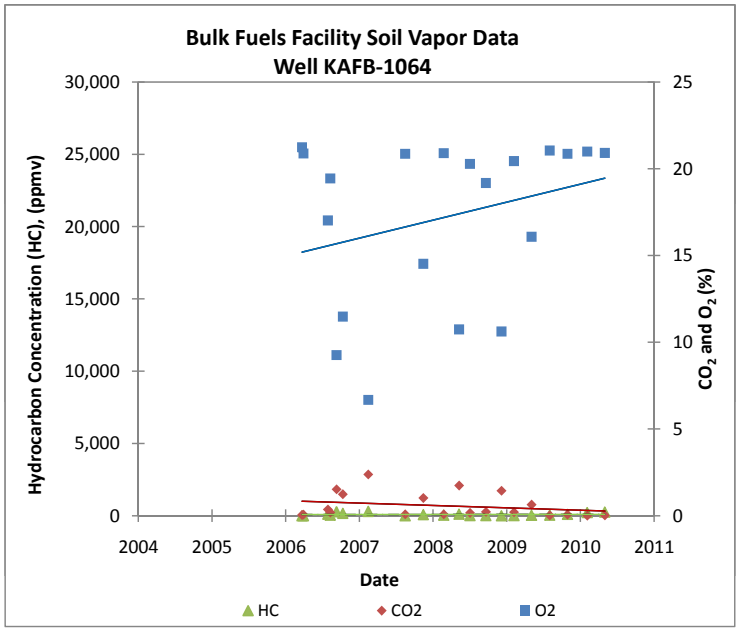

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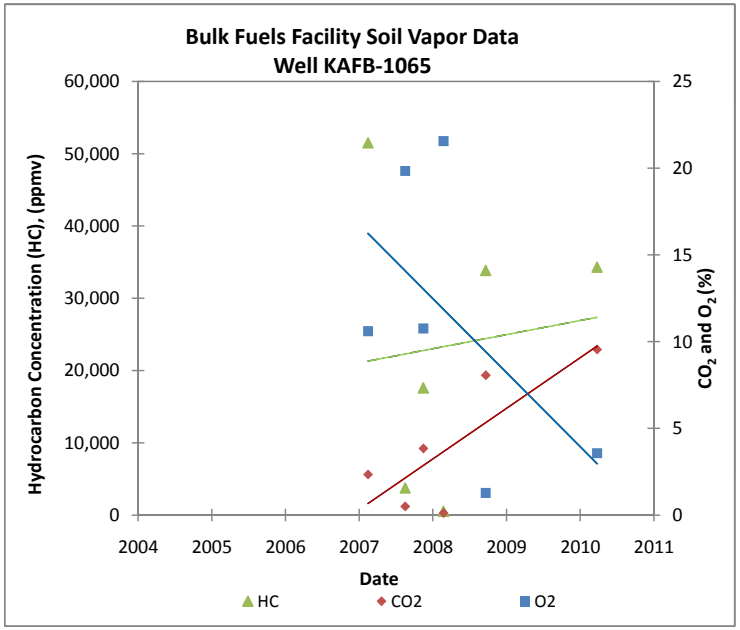


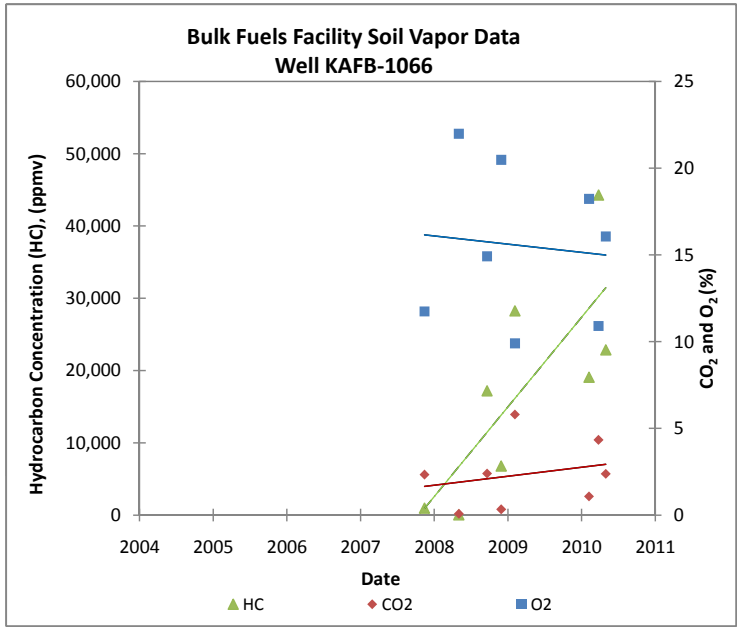


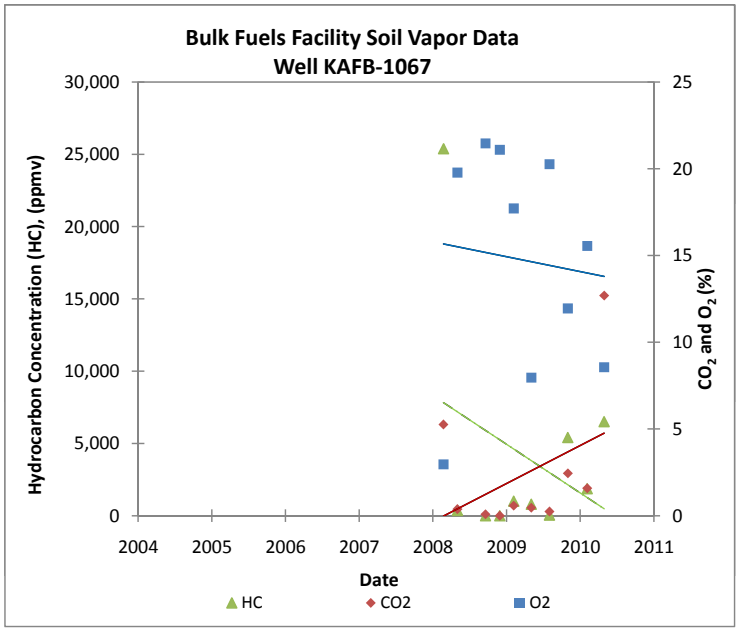


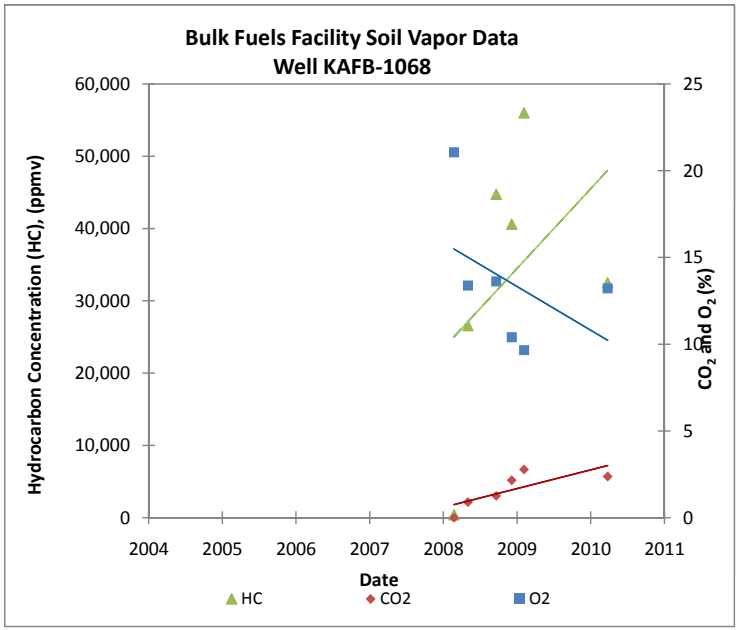

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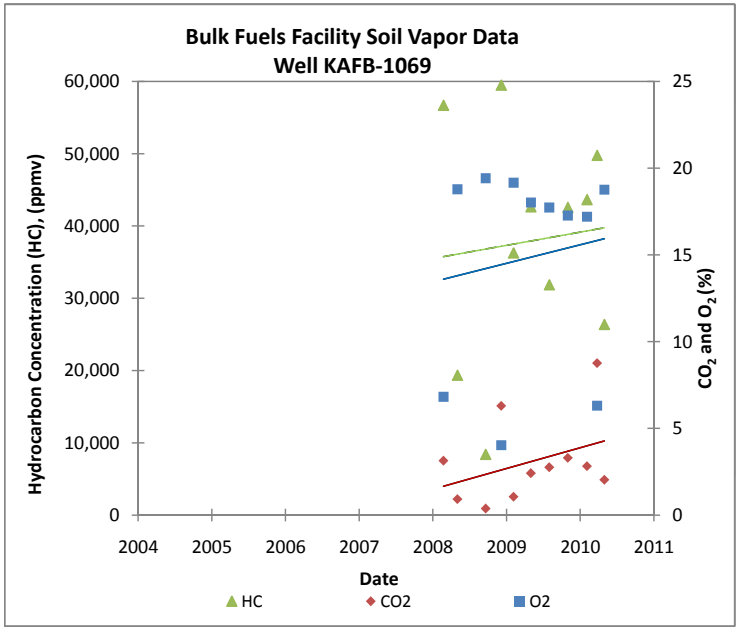


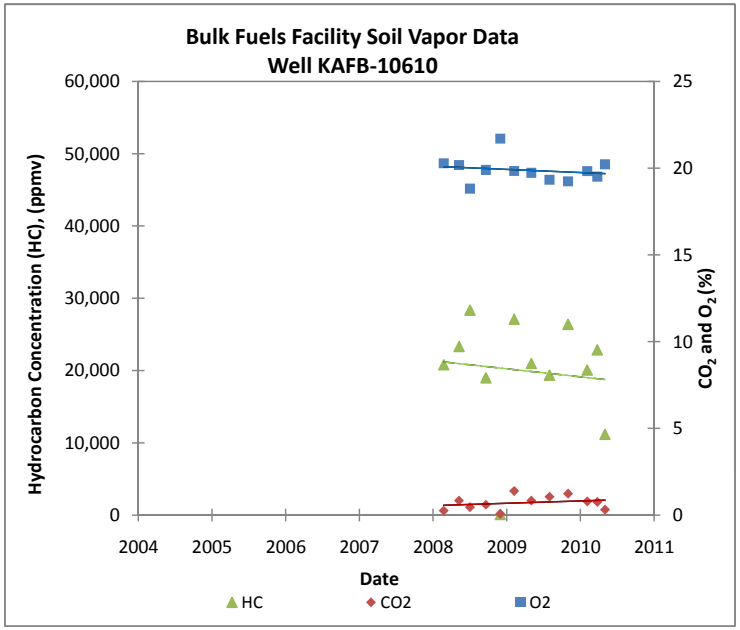


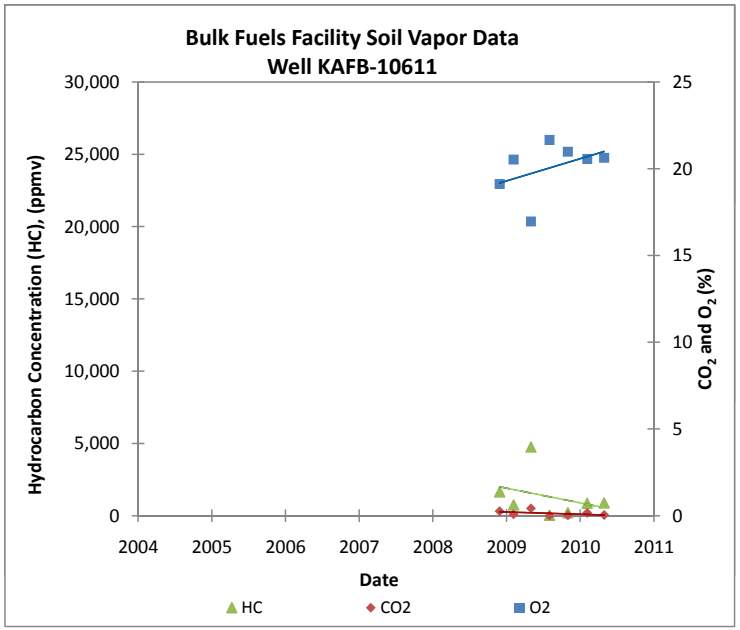


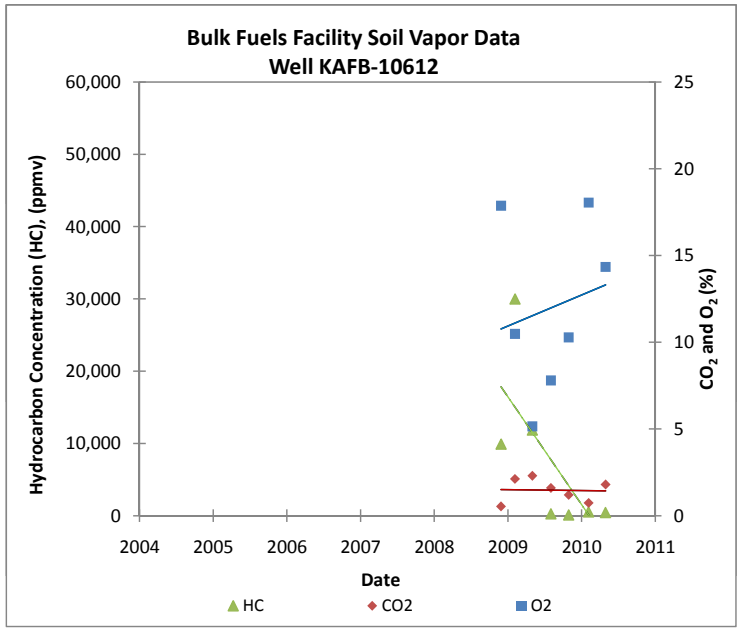

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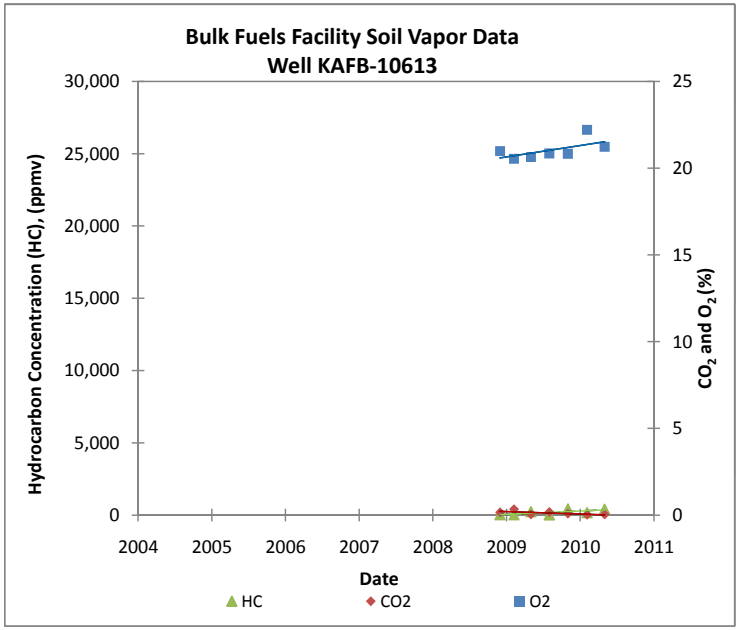


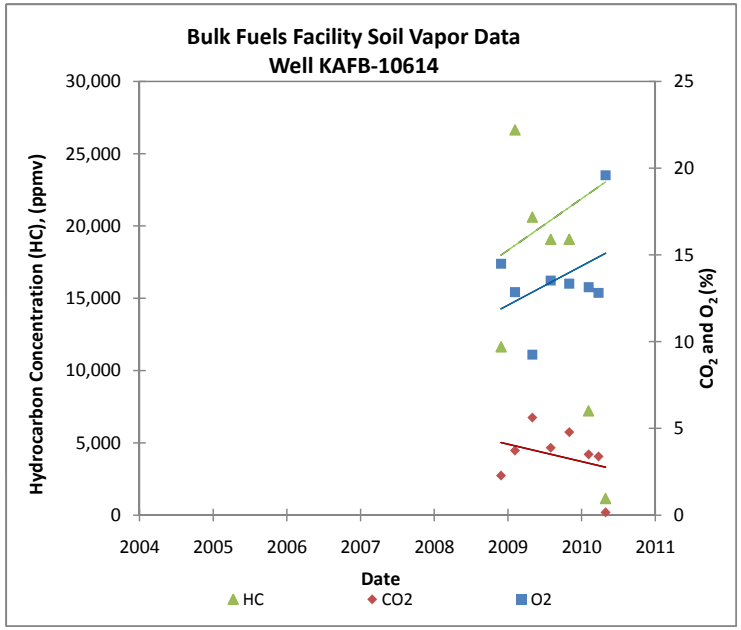


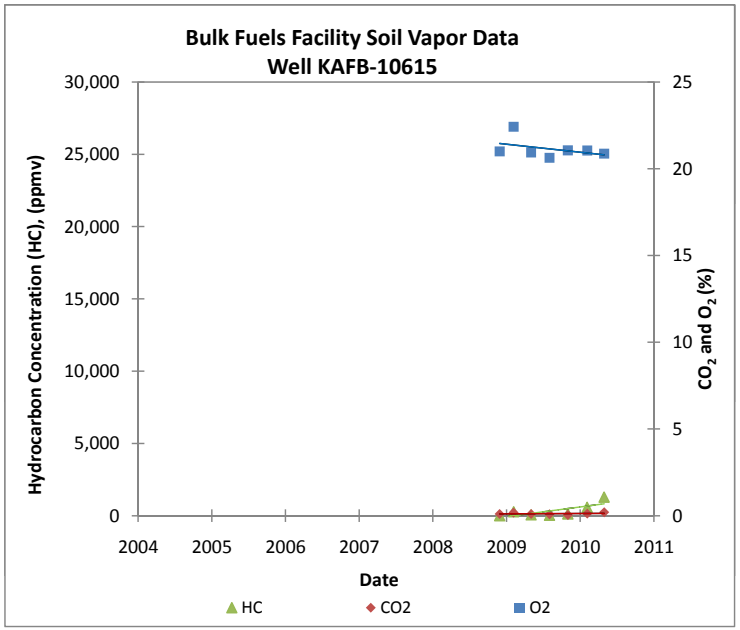


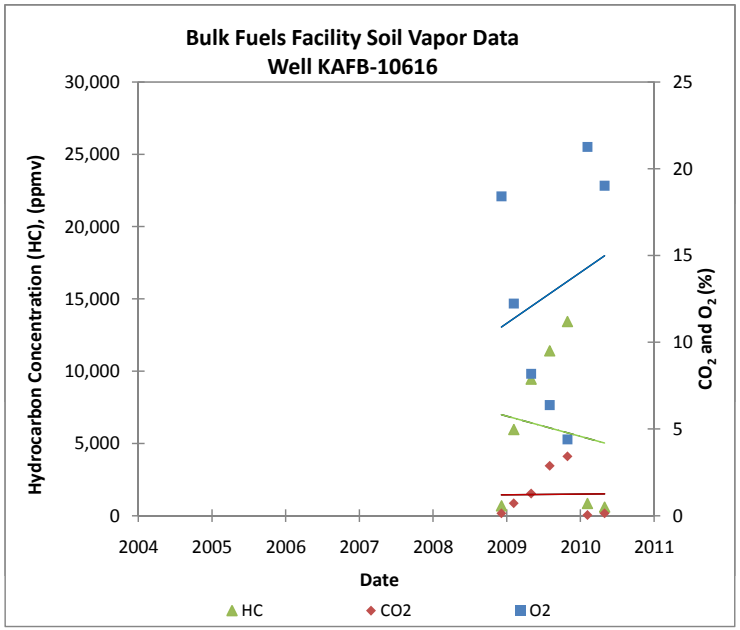

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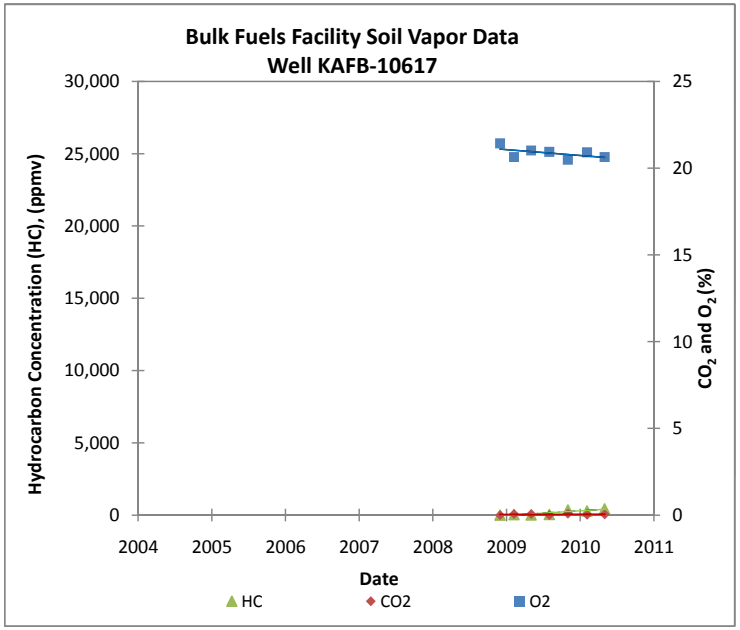


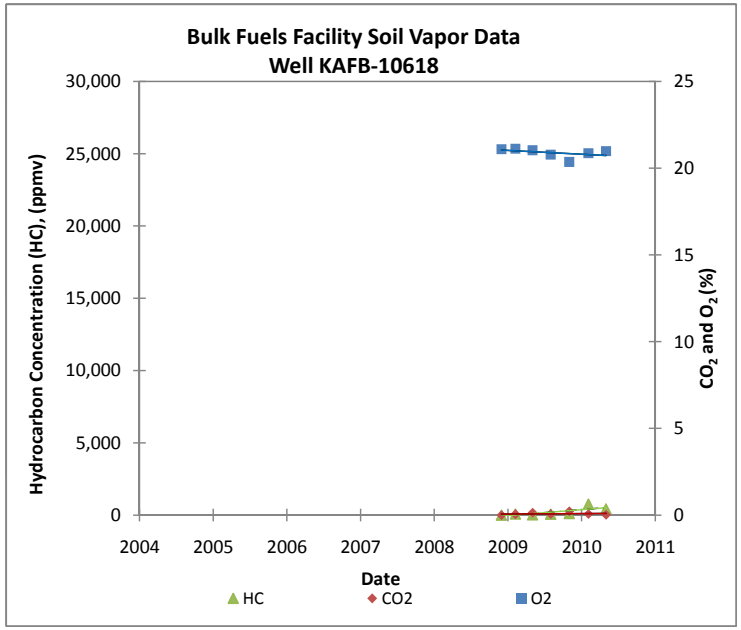


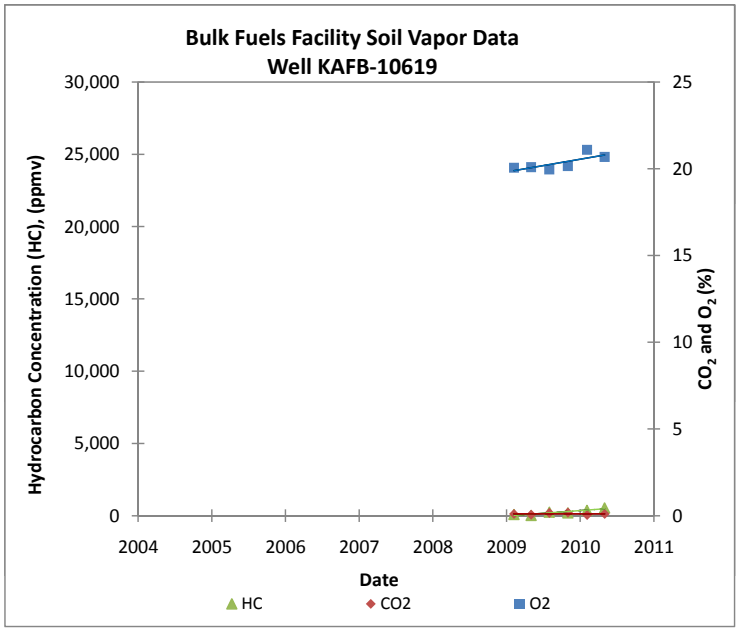


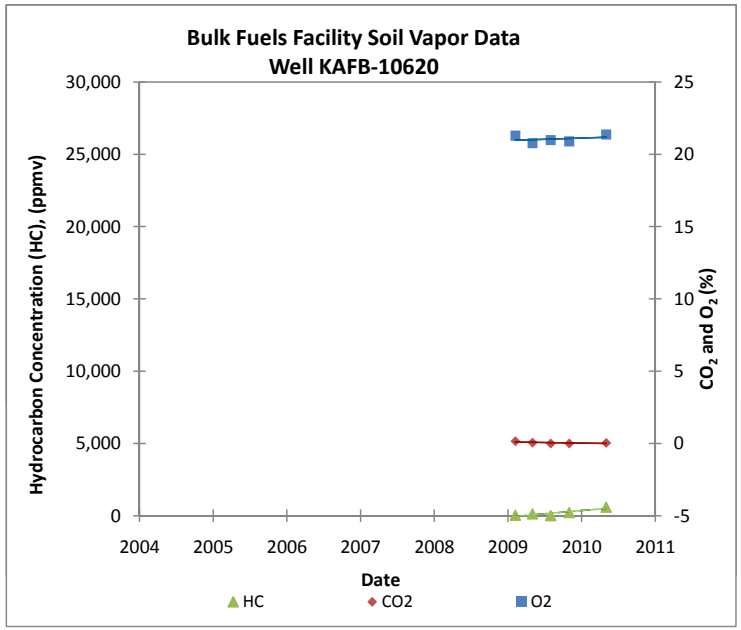

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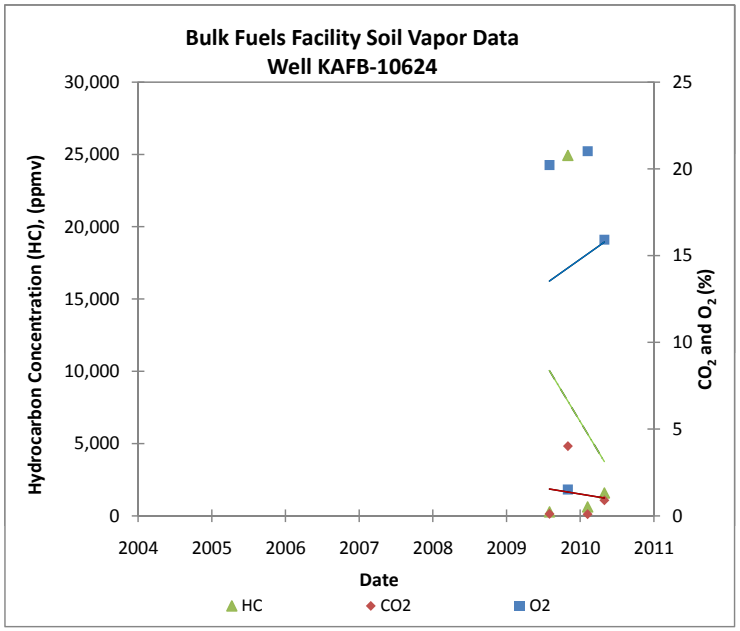


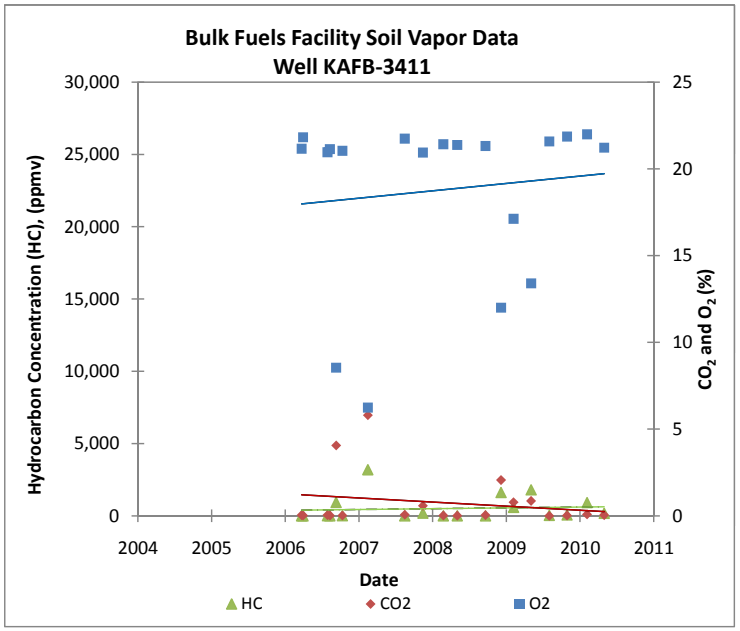

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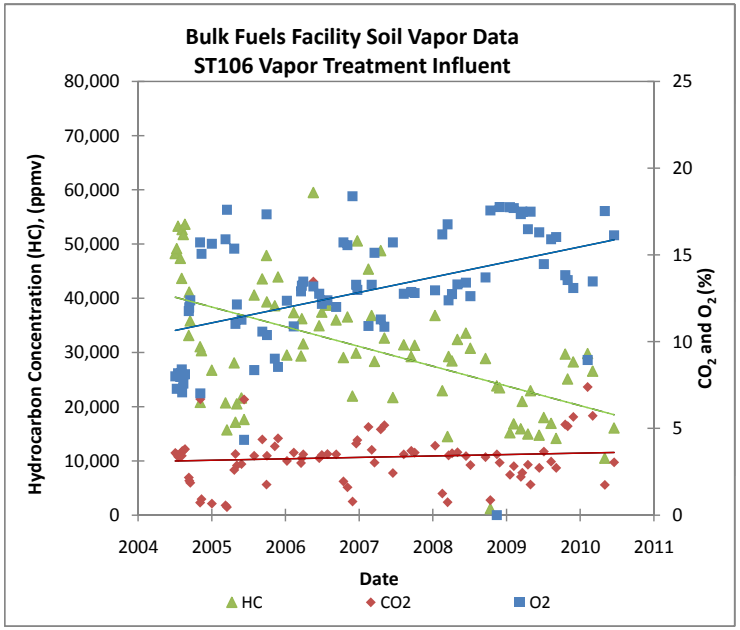
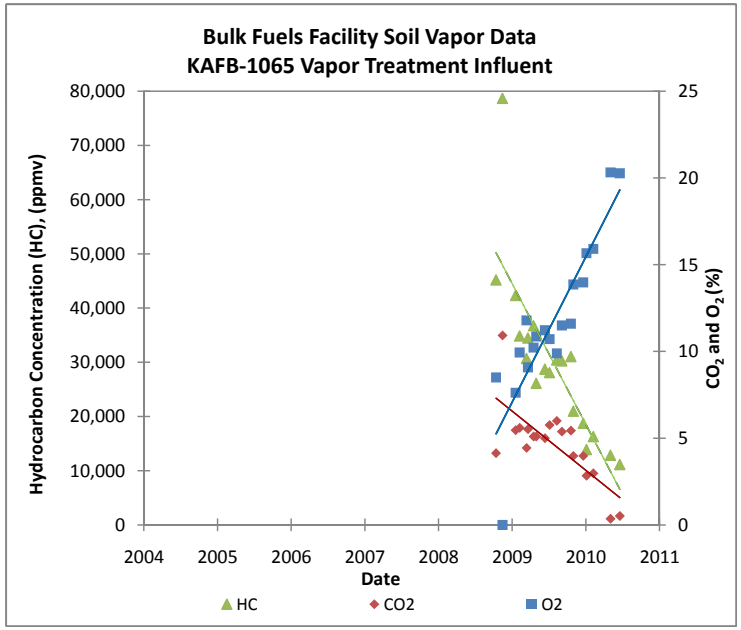
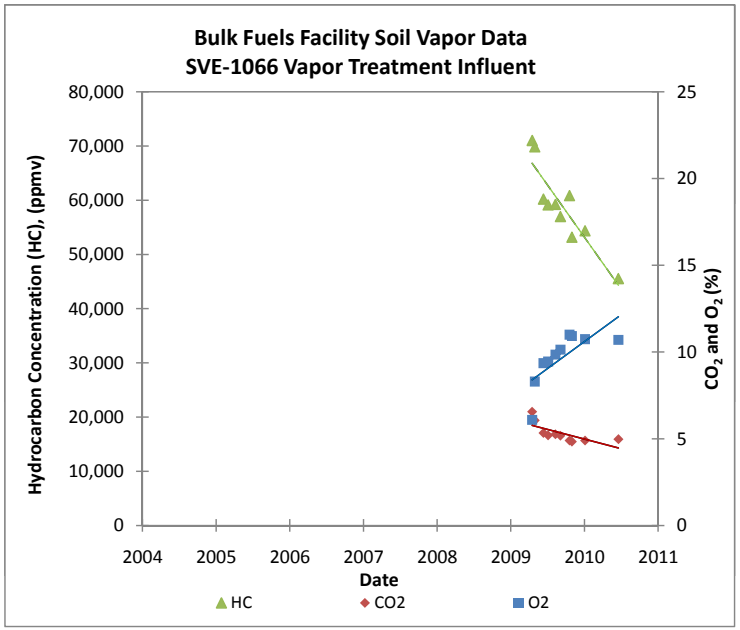
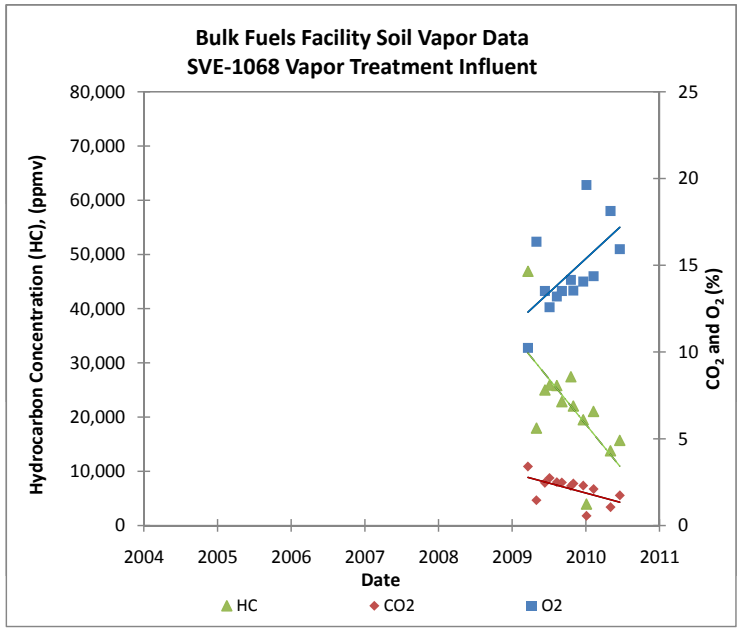
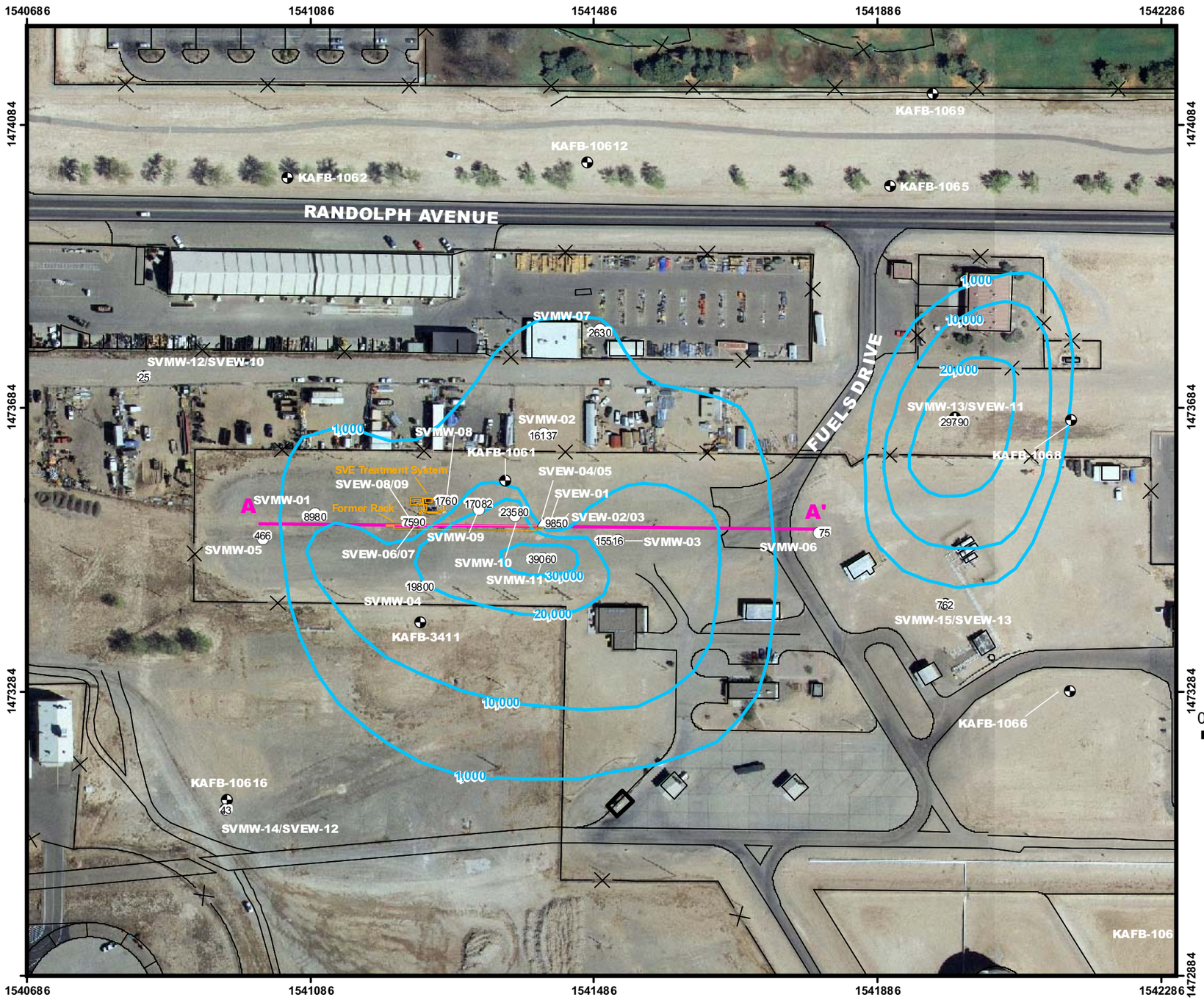
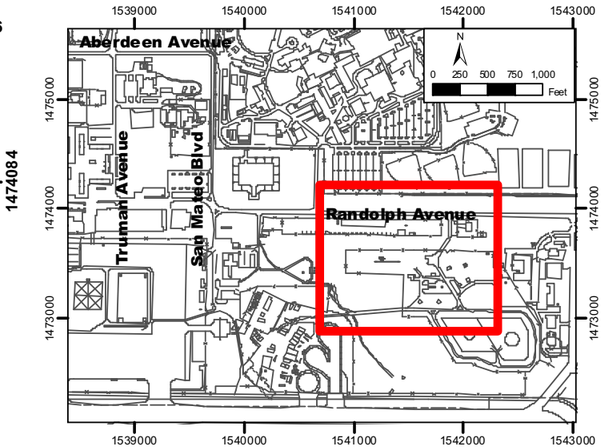





## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

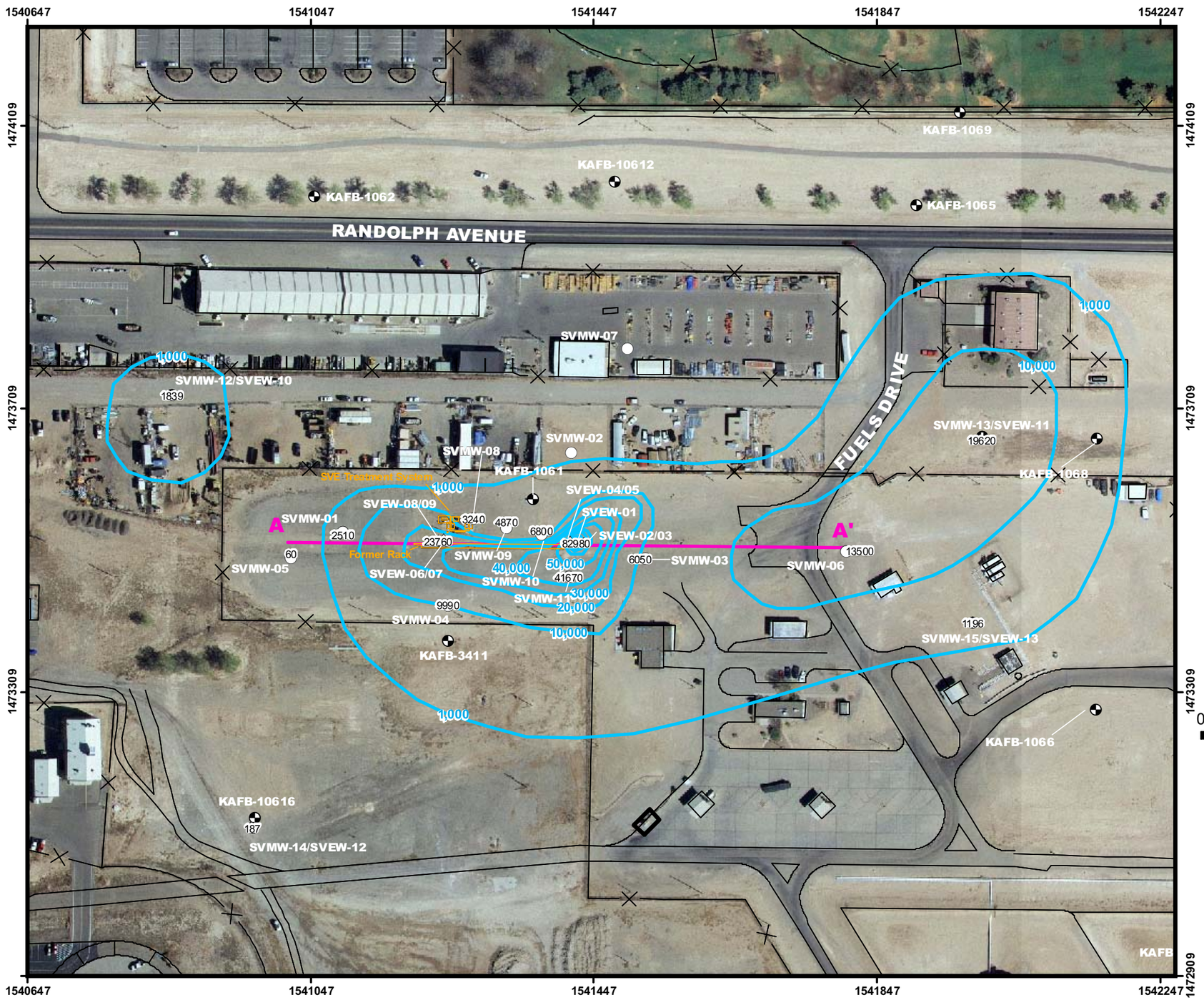
N

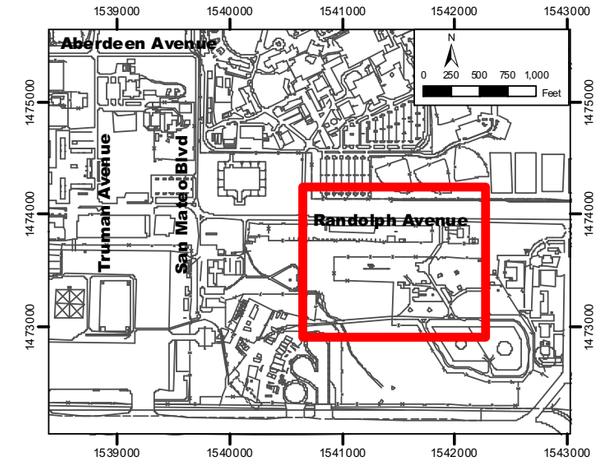
Semi-Annual Summary and Performance Report
October 2008 through March 2009
Bulk Fuels Facility

Figure 3-2

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-Oct 24-Dec 17, 2008

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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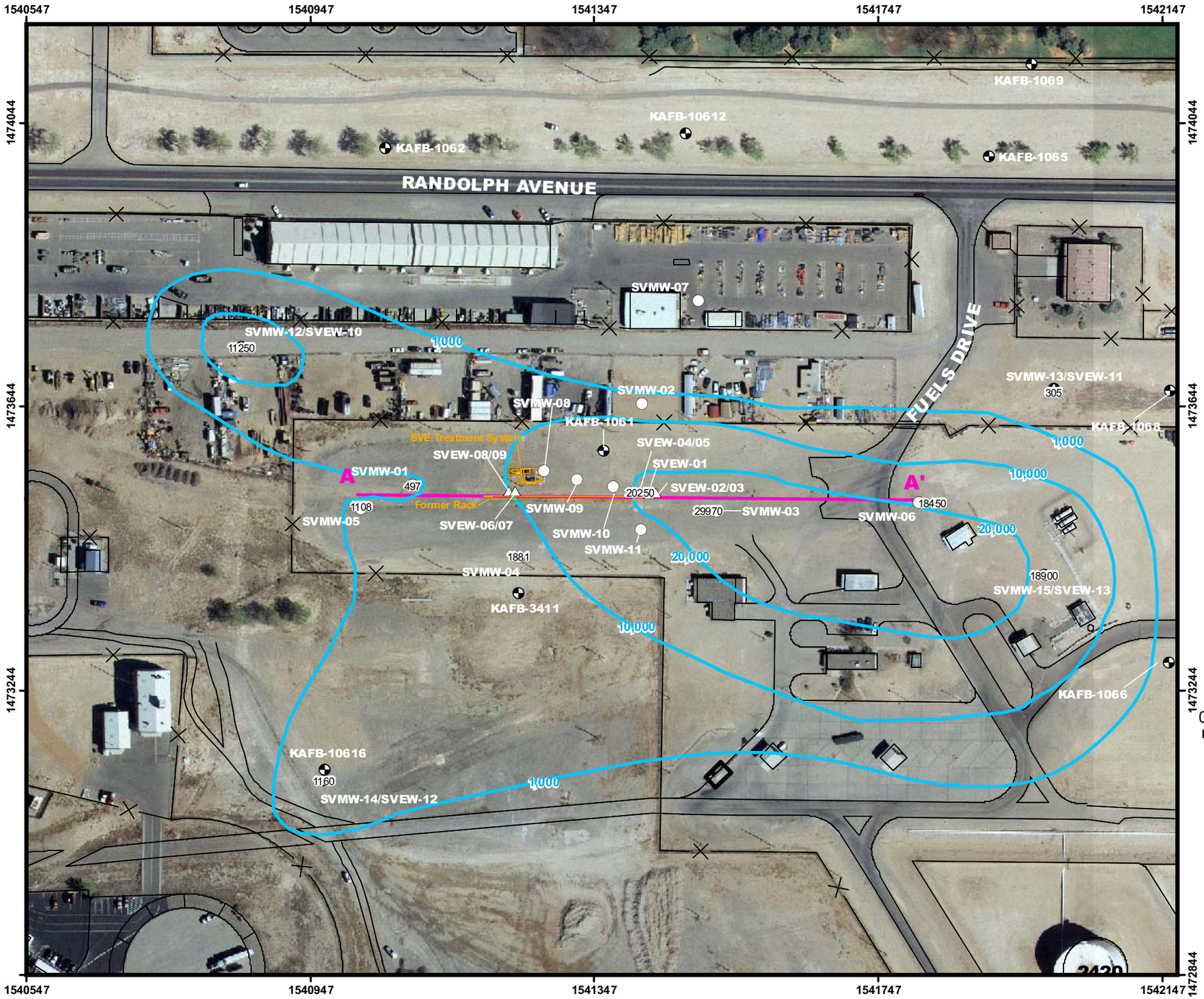
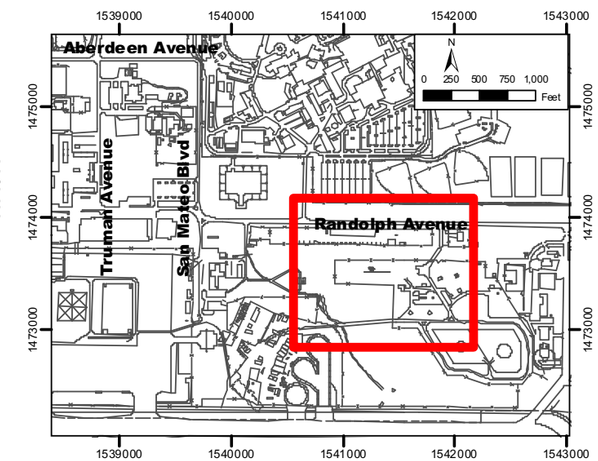
Figure 3-3

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-Oct 24-Dec 17, 2008

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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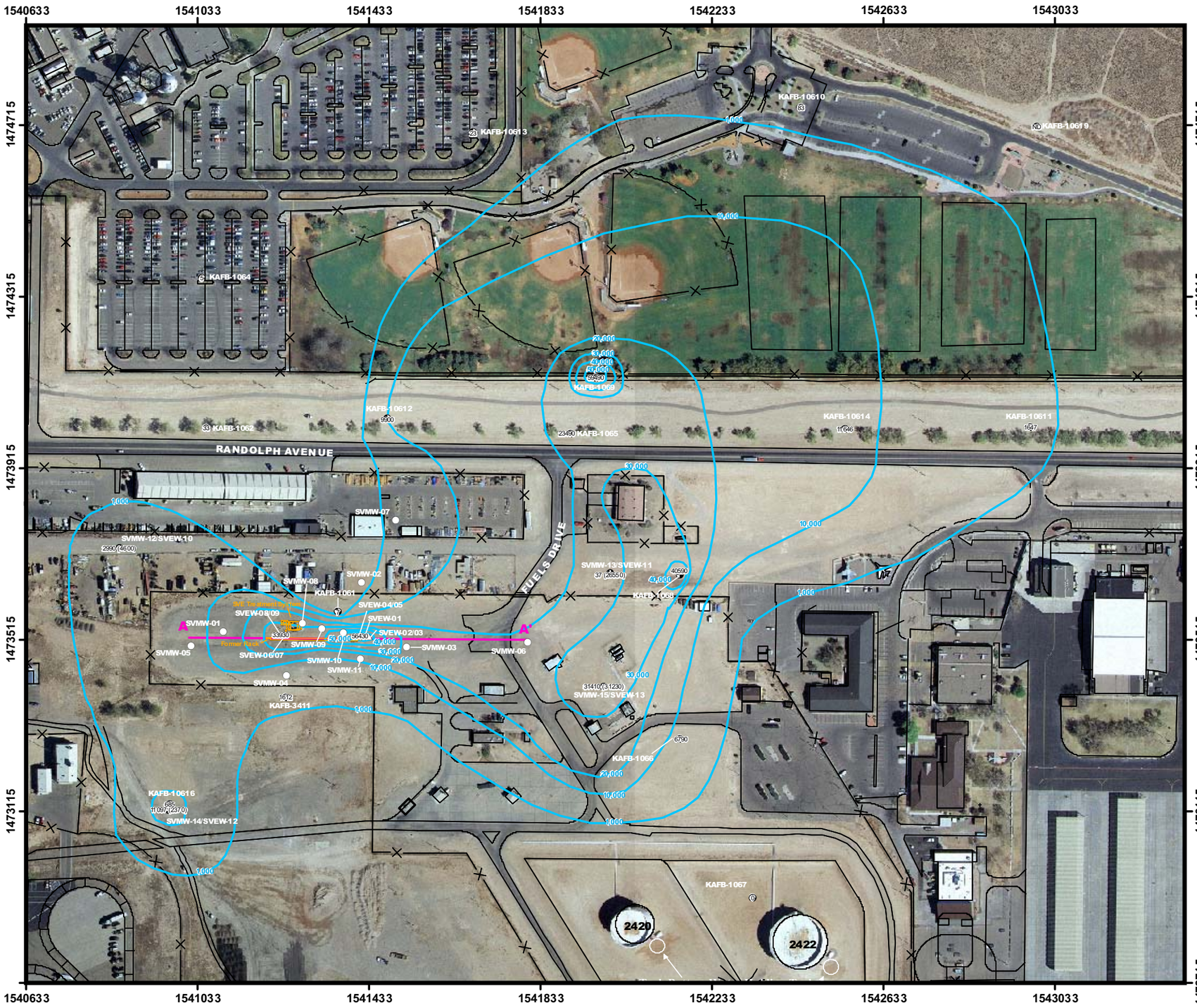
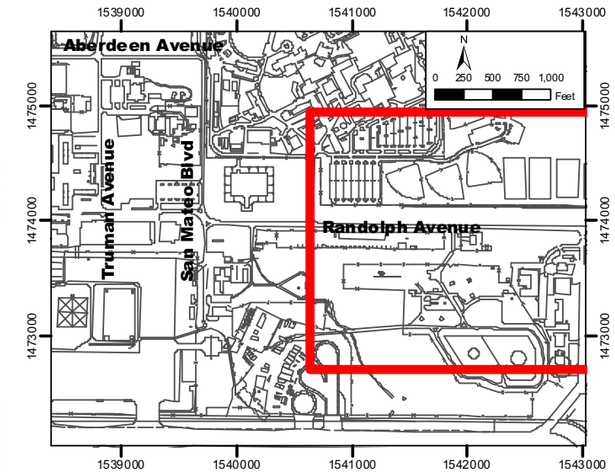
Bulk Fuels Facility

Figure 3-4

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-Oct 24-Dec 17, 2008

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 200 400 600 Feet

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October 2008 through March 2009
Bulk Fuels Facility

Figure 3-5

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-Oct 24-Dec 17, 2008

Revision Date: 5 May 2009

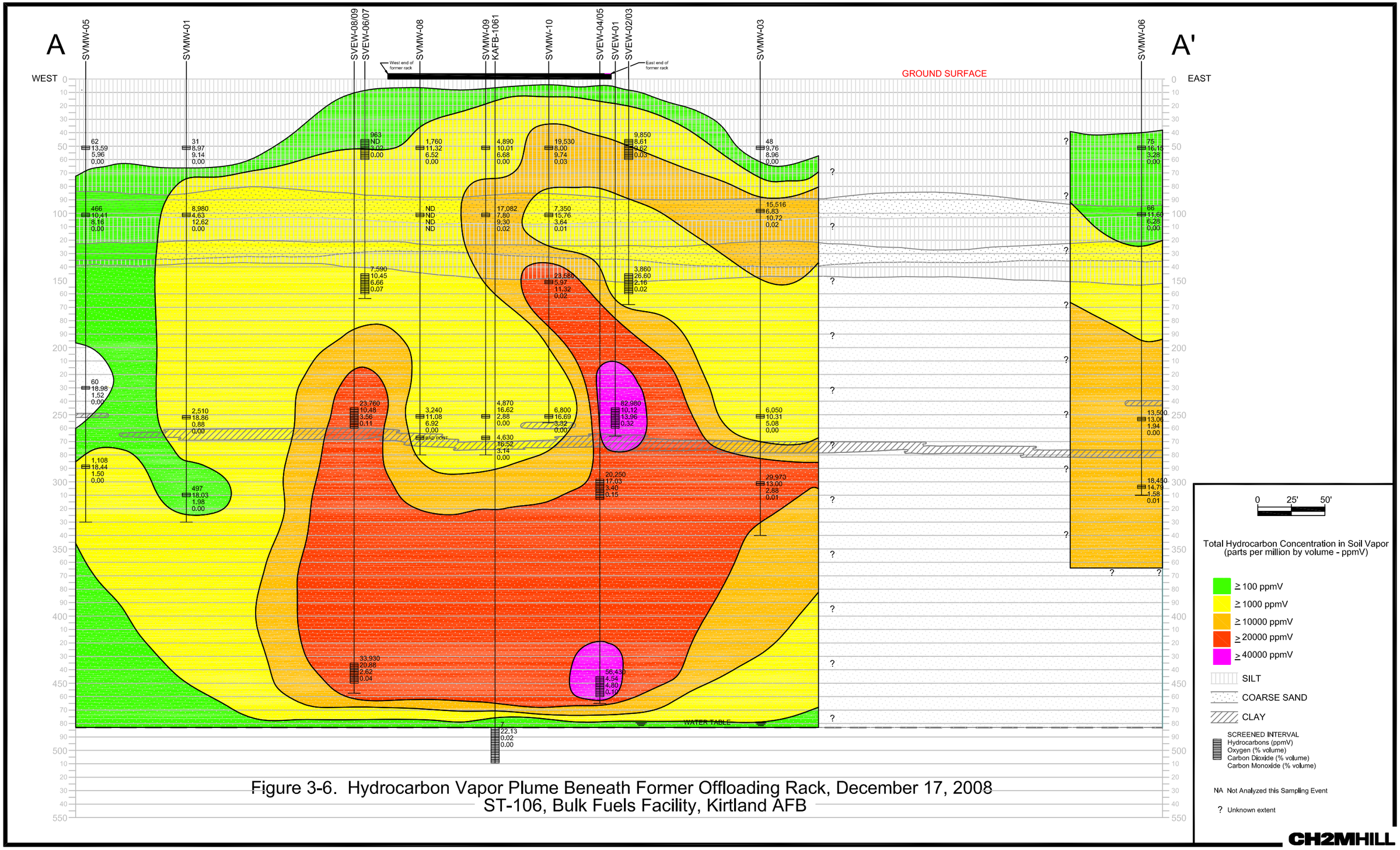
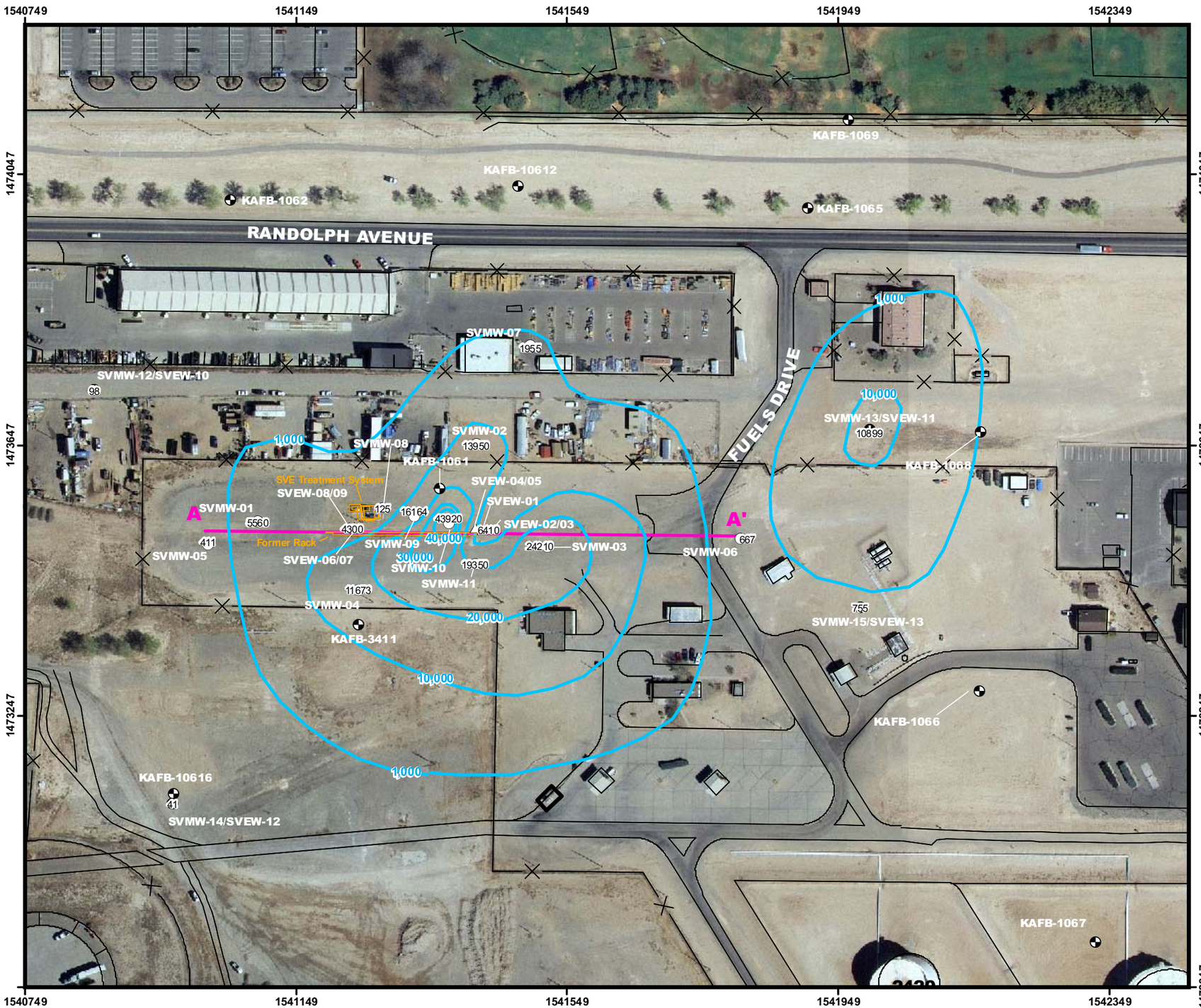
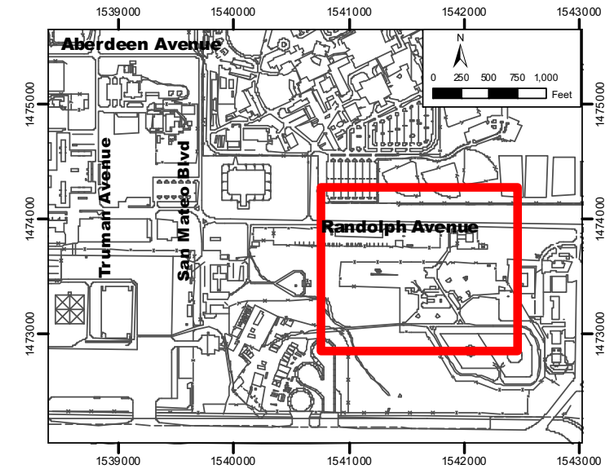



Figure 3-6. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, December 17, 2008
ST-106, Bulk Fuels Facility, Kirtland AFB




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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October 2008 through March 2009
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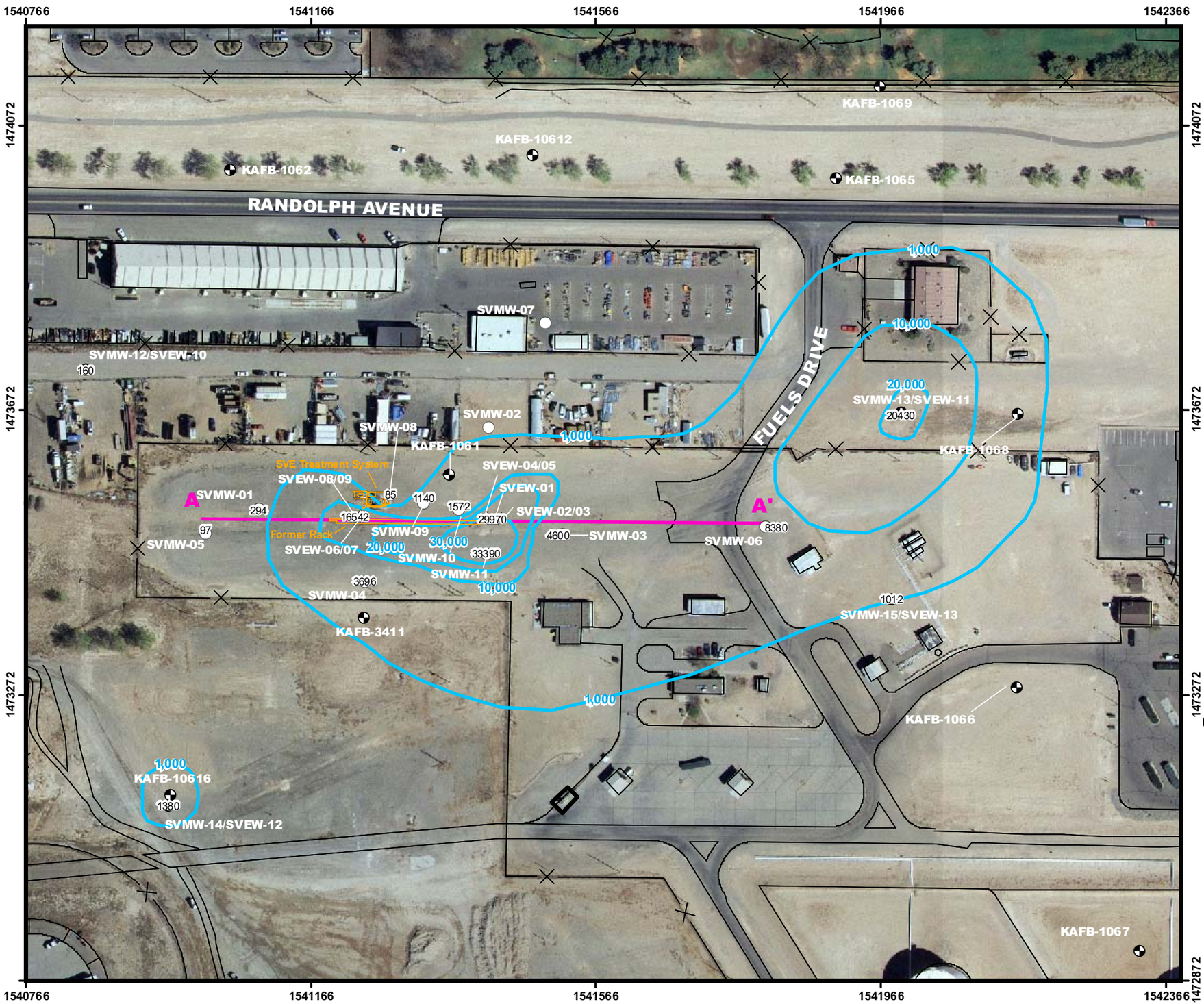
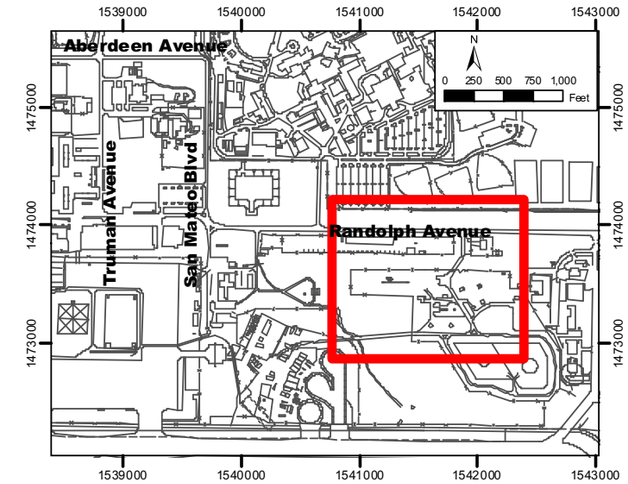
Figure 3-7

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-Jan 29-Feb 19, 2009

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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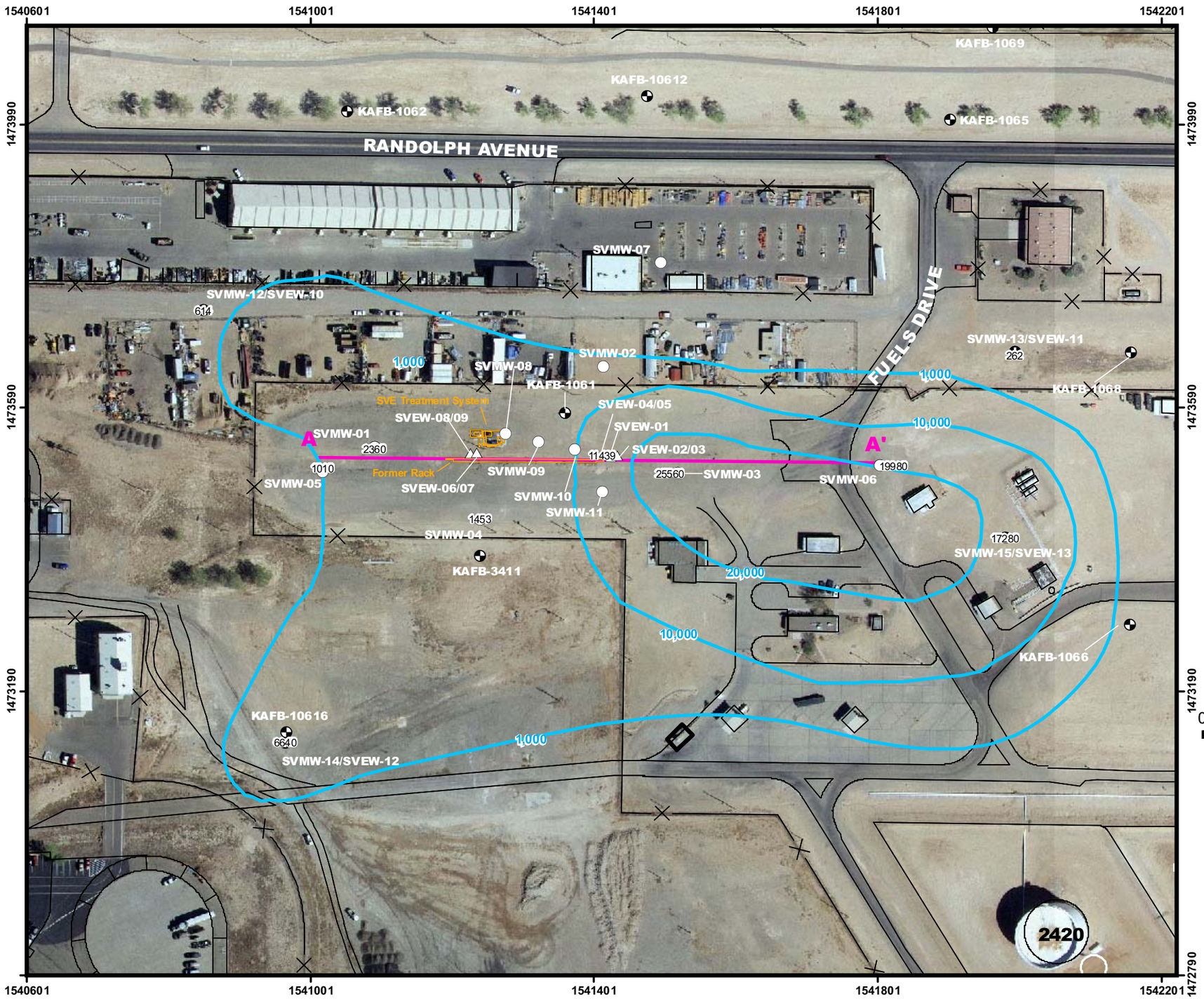
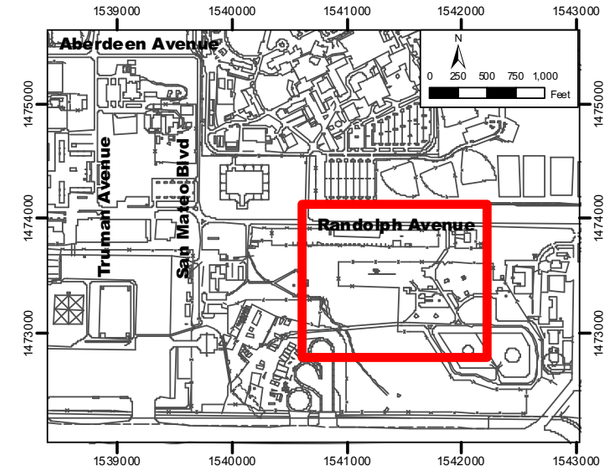
Figure 3-8

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-Jan 29 -Feb 19, 2009

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 150 300 450 Feet

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October 2008 through March 2009
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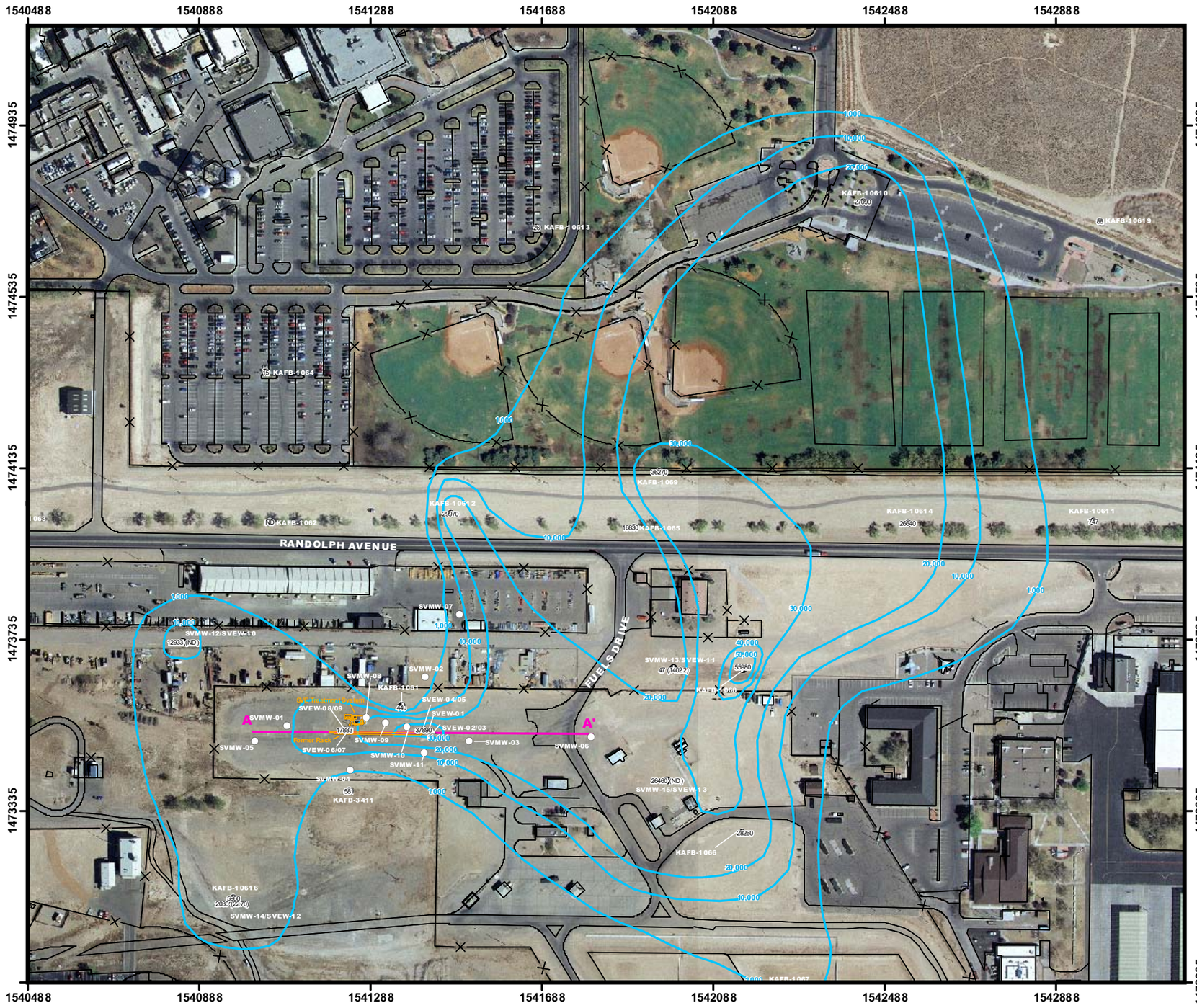
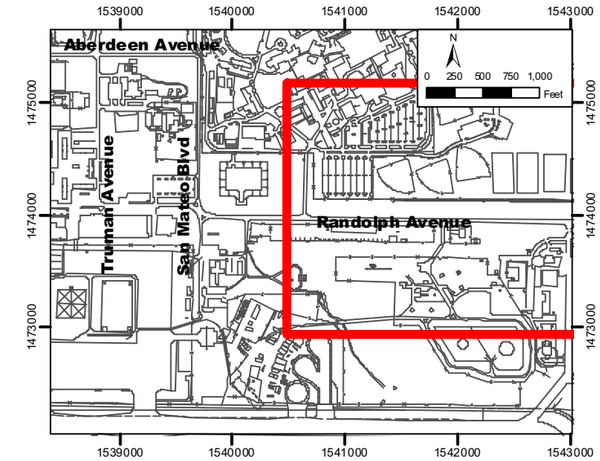
Figure 3-9

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-Jan 29-Feb 19, 2009

Revision Date: 5 May 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 200 400 600 Feet

N

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October 2008 through March 2009
Bulk Fuels Facility

Figure 3-10

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-Jan 29-Feb 19, 2009

Revision Date: 5 May 2009

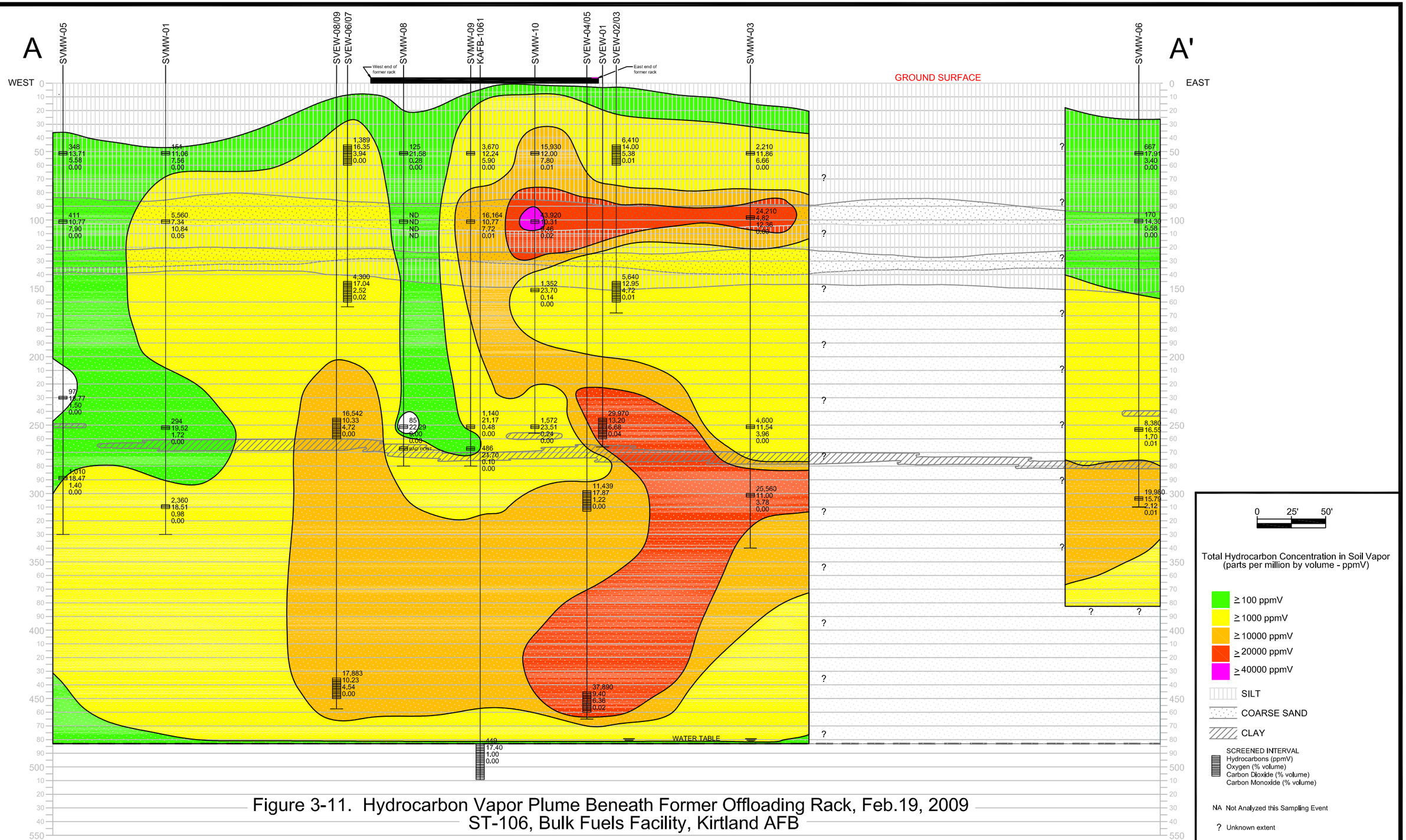
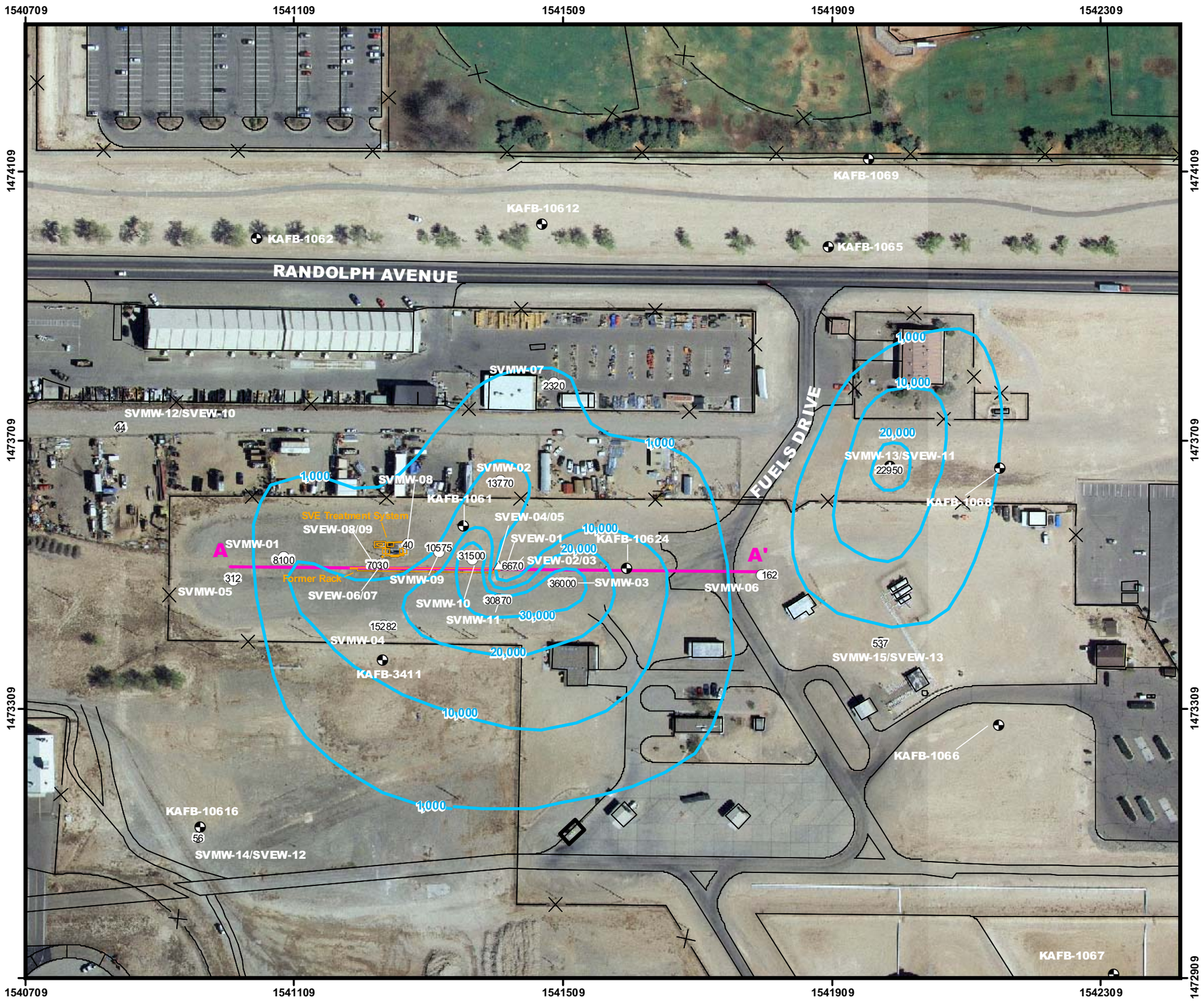
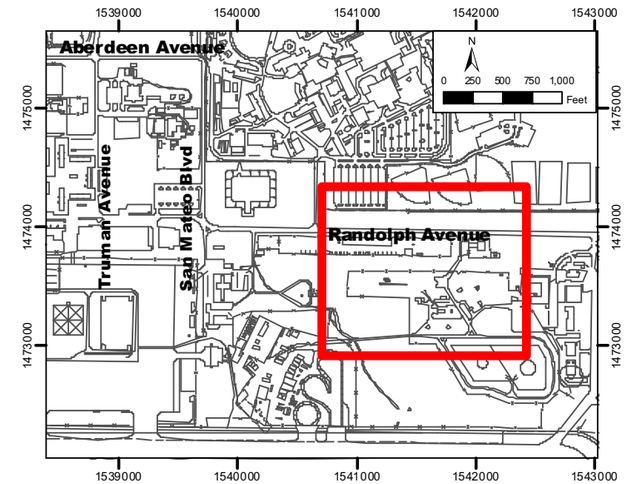



Figure 3-11. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, Feb.19, 2009
ST-106, Bulk Fuels Facility, Kirtland AFB




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 150 300 450 Feet

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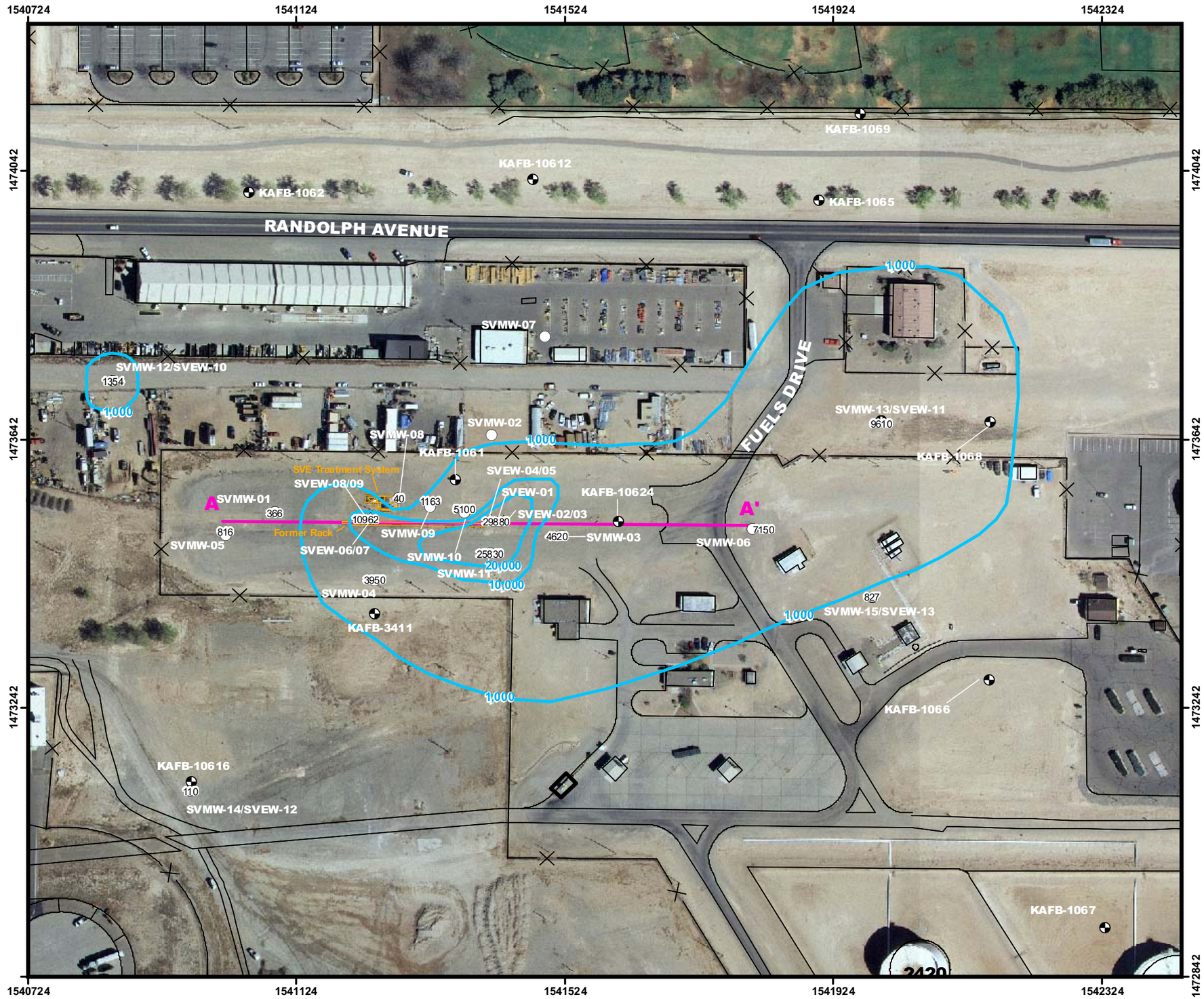
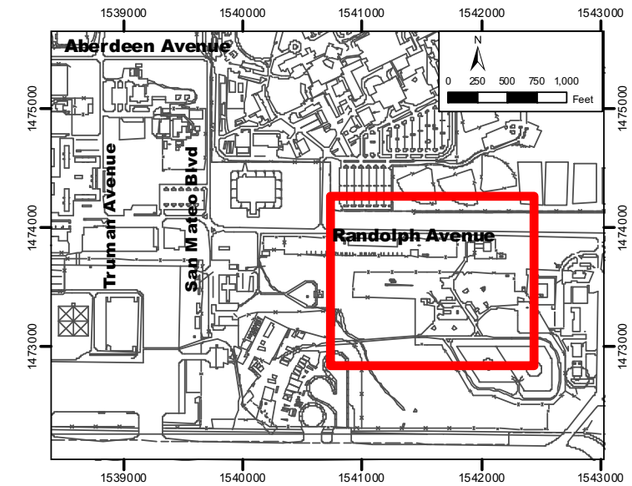
Figure 3-2

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-May 11-15, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

Semi-Annual Summary and Performance Report
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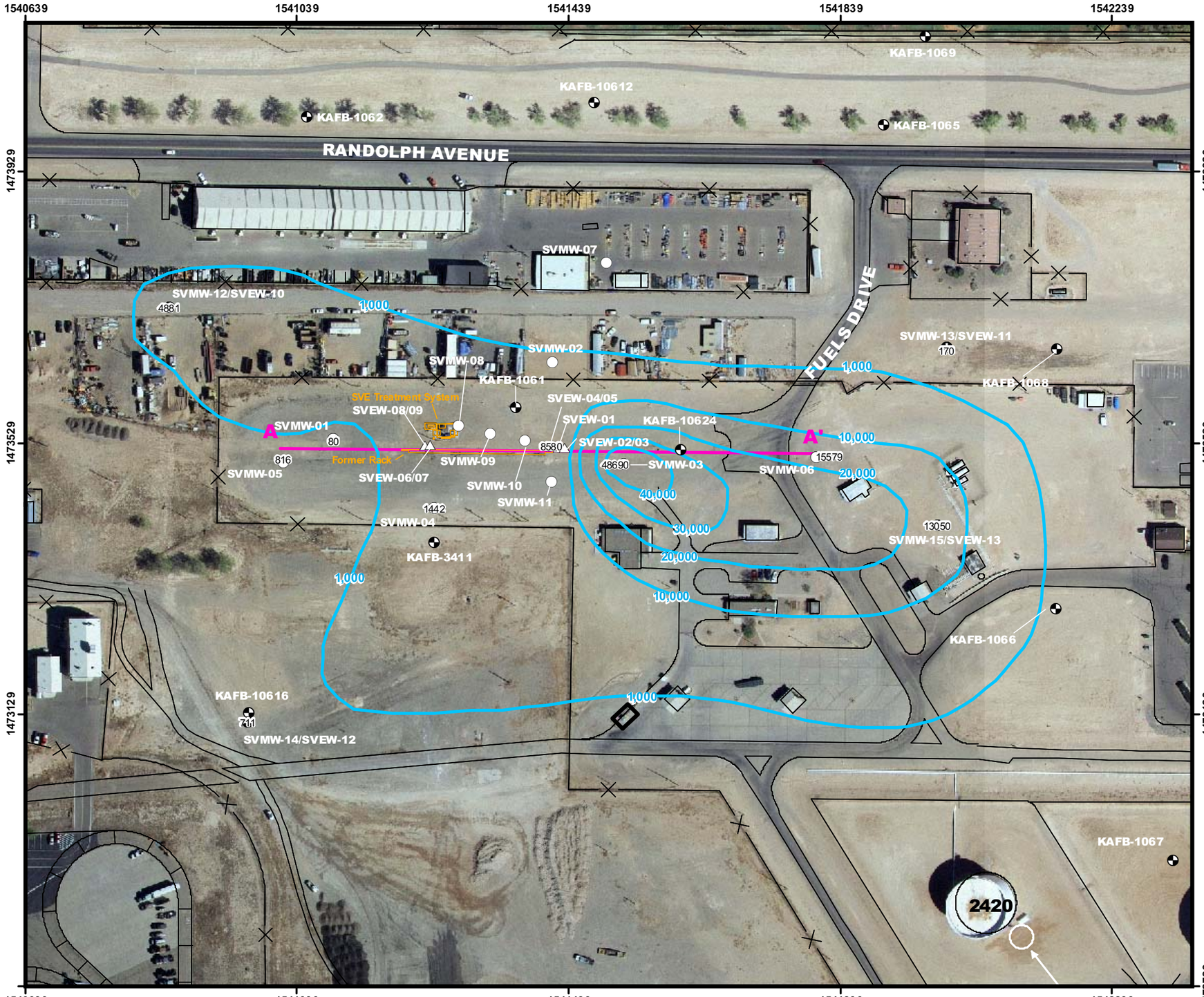
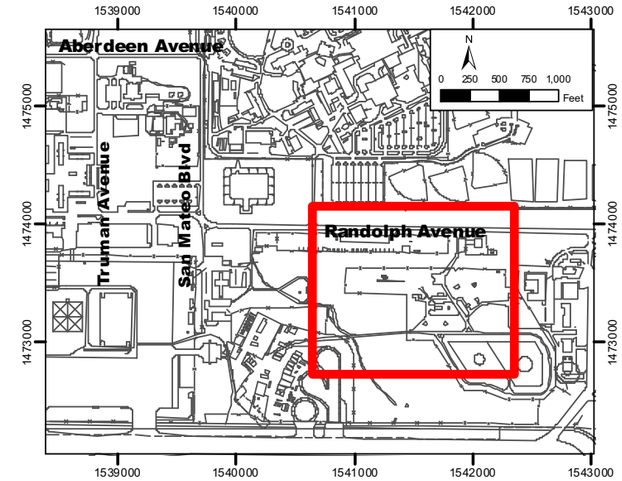
Bulk Fuels Facility

Figure 3-3

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-May 11-15, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 150 300 450 Feet

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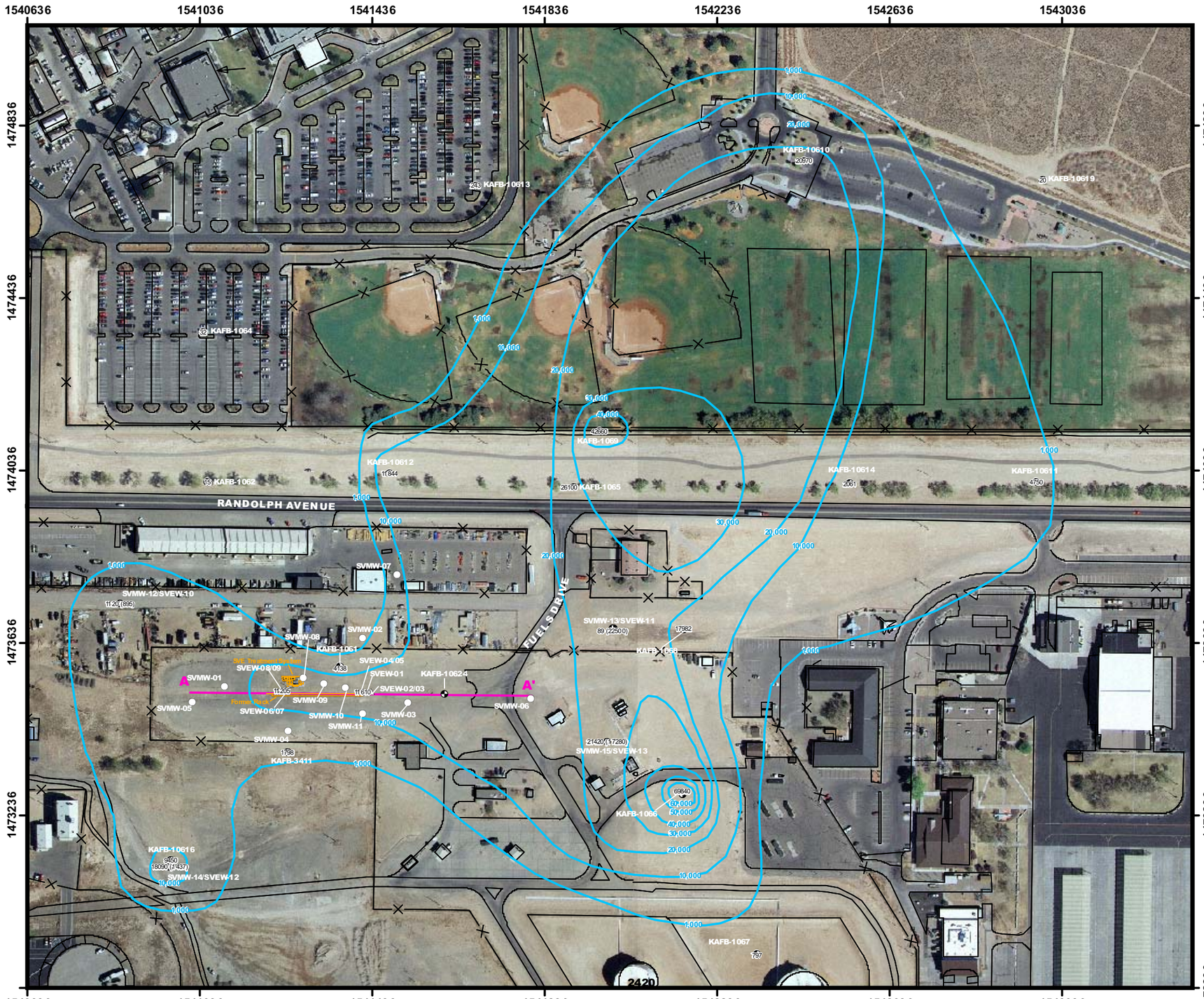
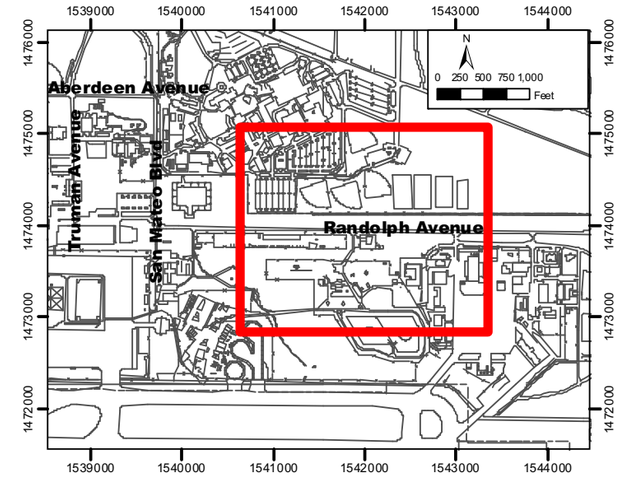
April 2009 through September 2009
Bulk Fuels Facility

Figure 3-4

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-May 11-15, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 200 400 600 Feet

N

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Figure 3-5

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-May 11- 15, 2009

Revision Date: 01 September 2009

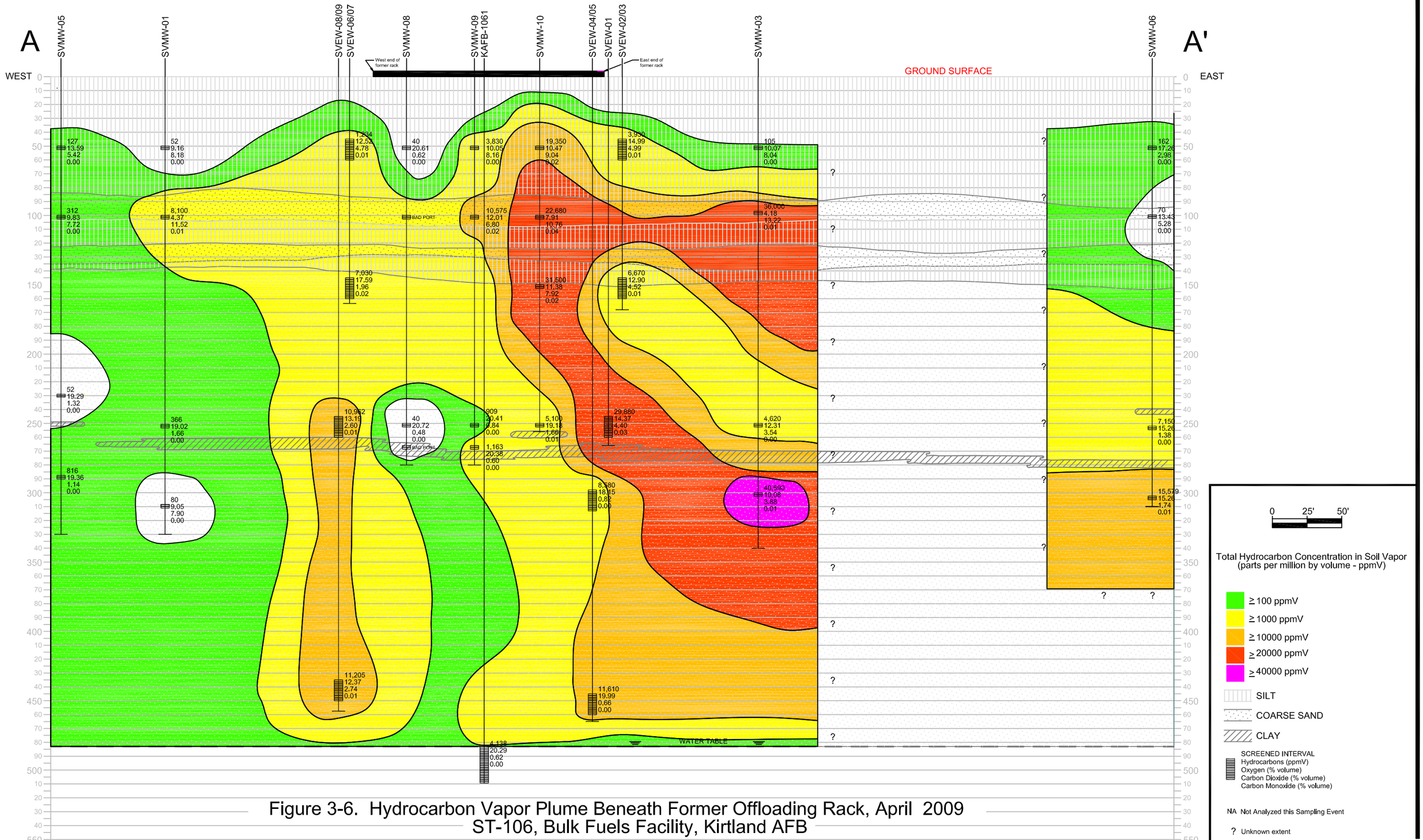
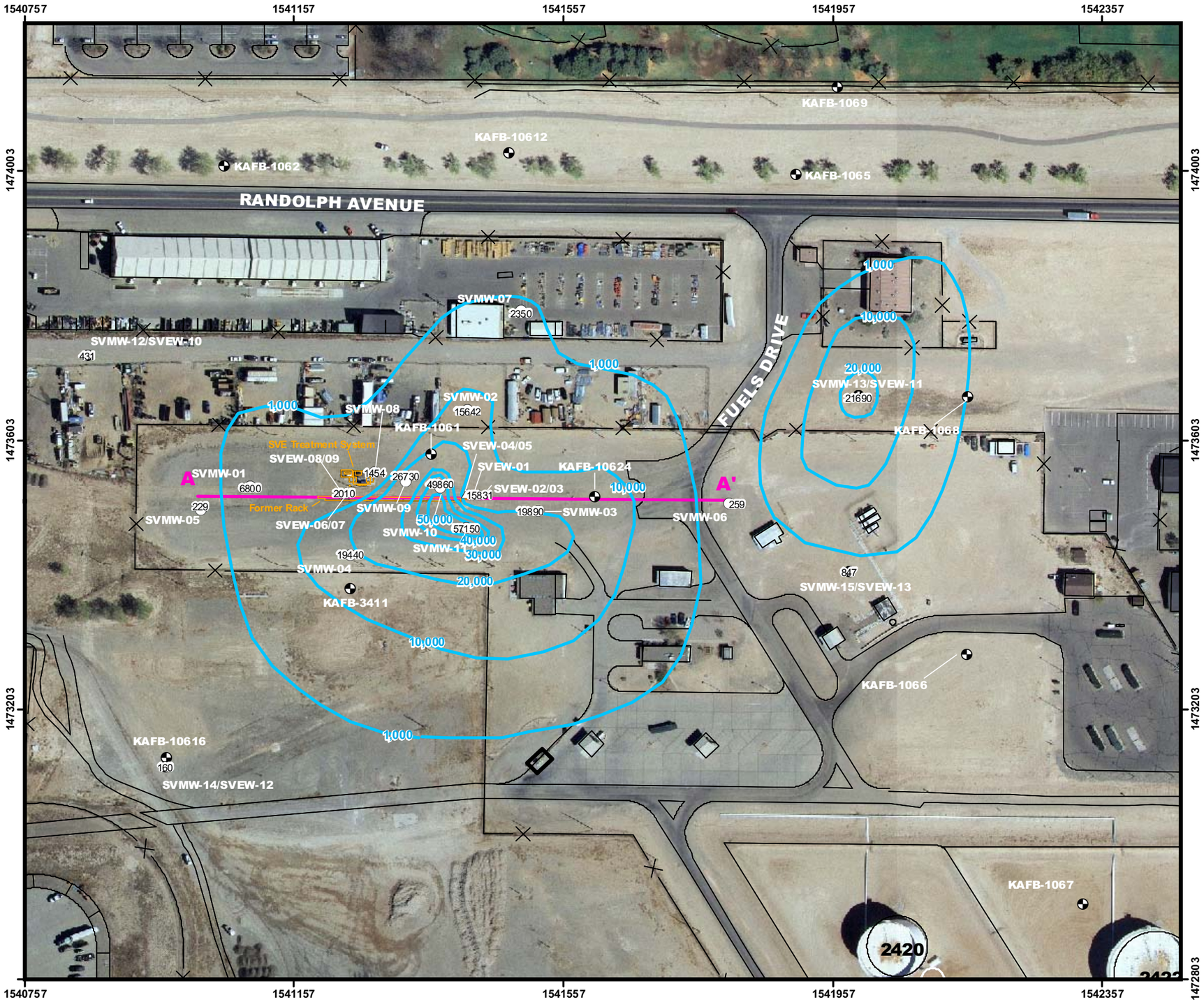
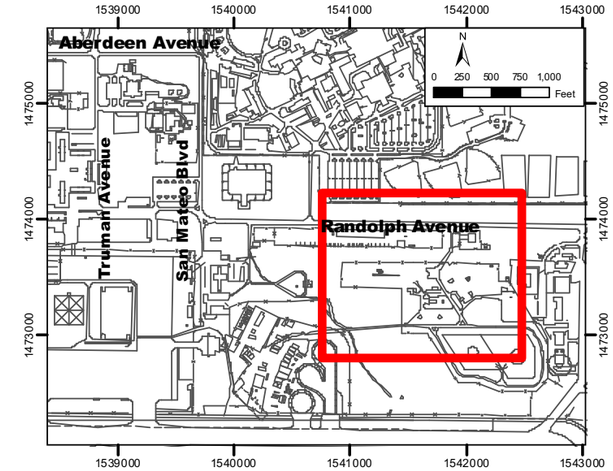



Figure 3-6. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, April 2009
ST-106, Bulk Fuels Facility, Kirtland AFB




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 150 300 450 Feet

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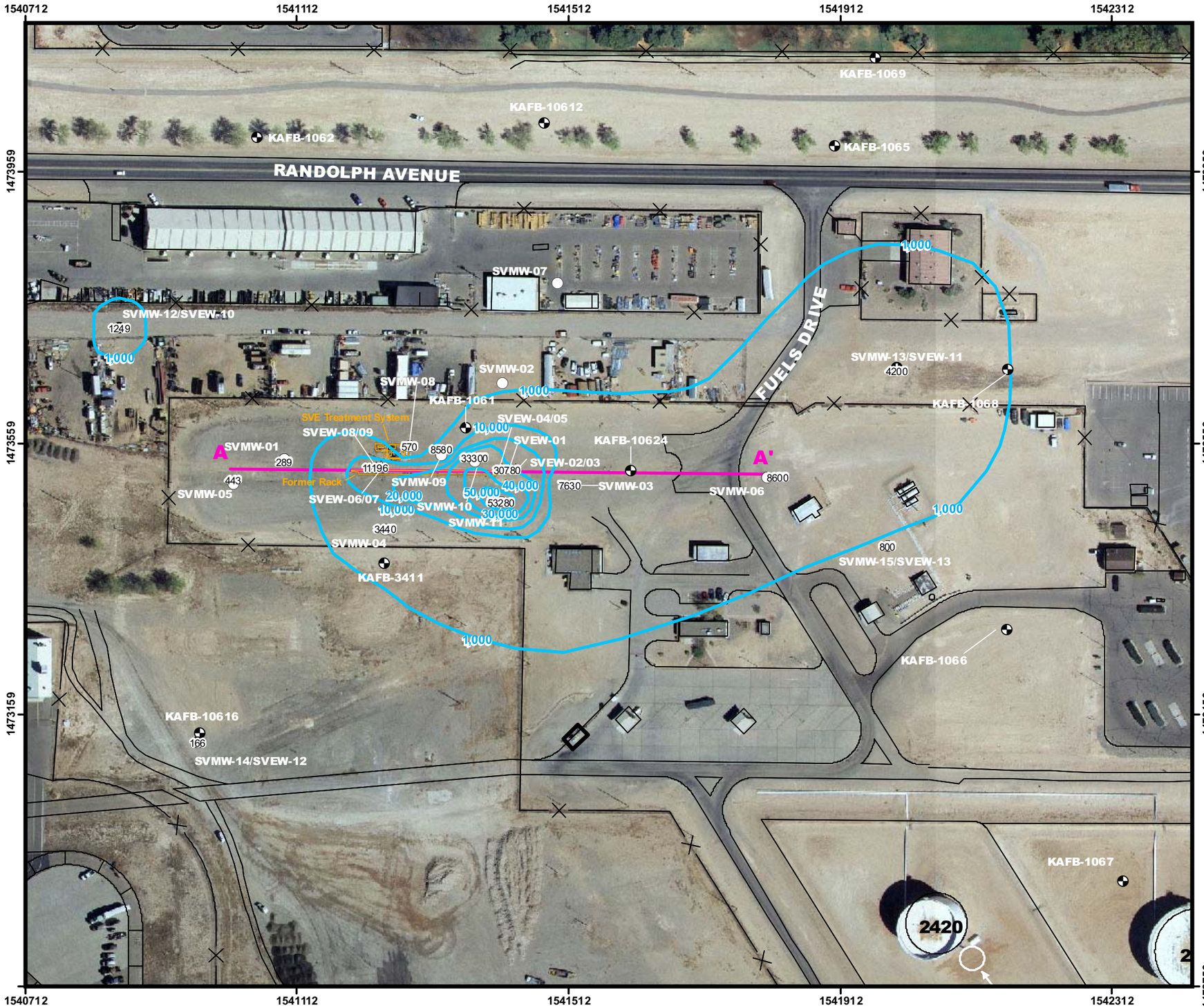
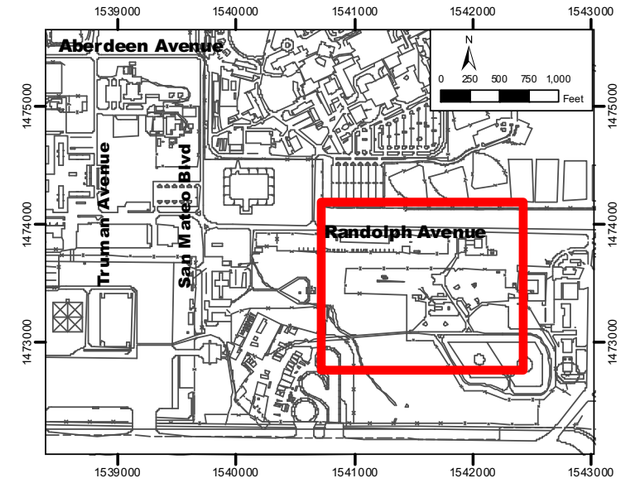
Figure 3-7

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-August 14- 21, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

0 150 300 450 Feet

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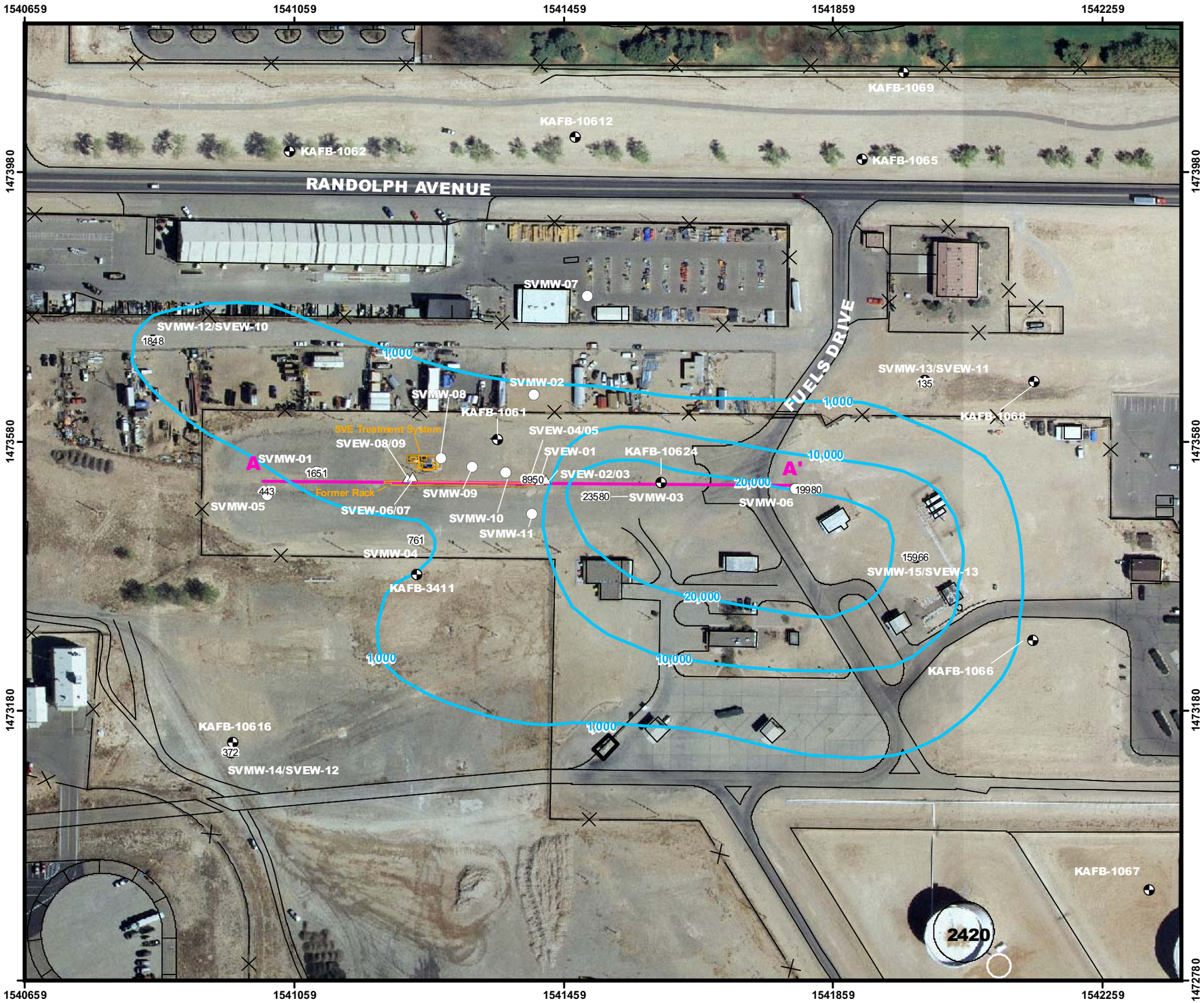
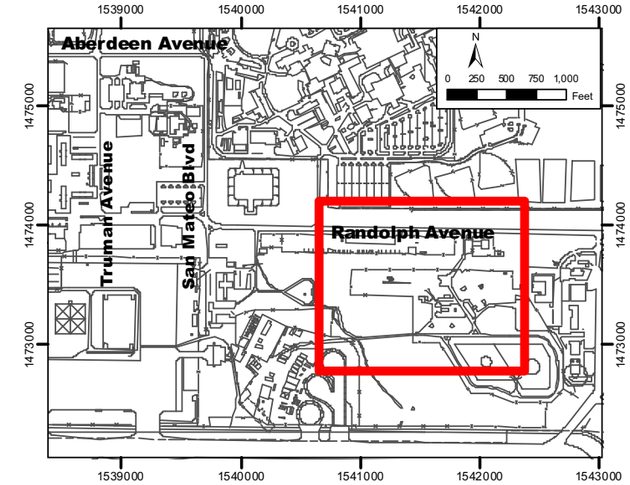
Bulk Fuels Facility

Figure 3-8

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-August 14- 21, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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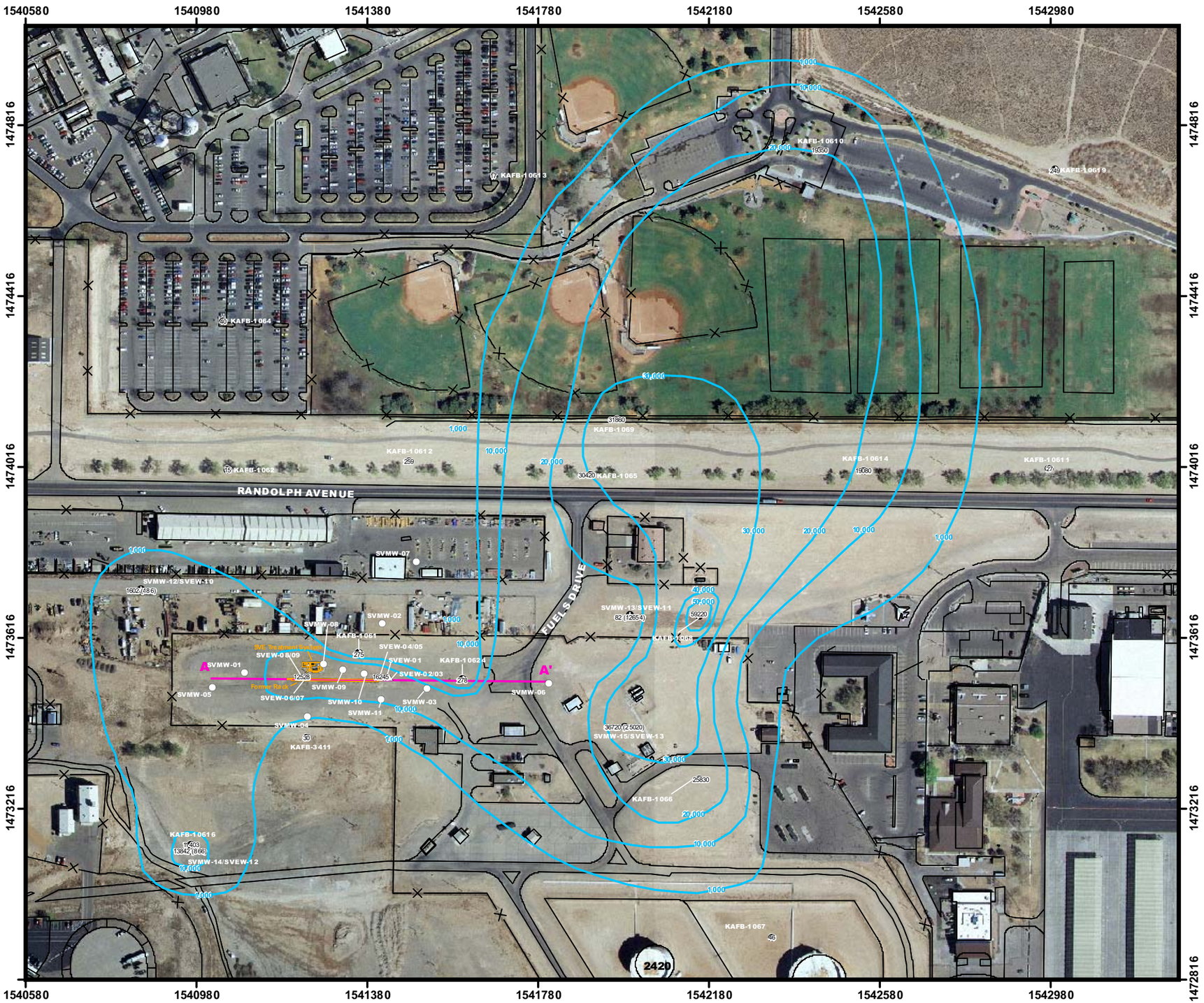
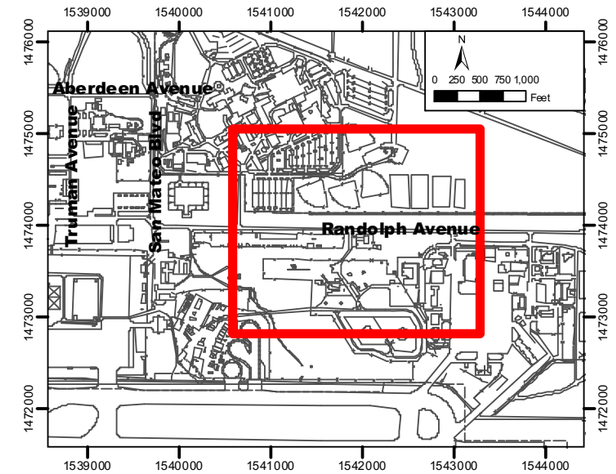
Figure 3-9

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-August 14- 21, 2009

Revision Date: 01 September 2009




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 200 400 600 Feet

N

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Figure 3-10

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-August 14- 21, 2009

Revision Date: 01 September 2009

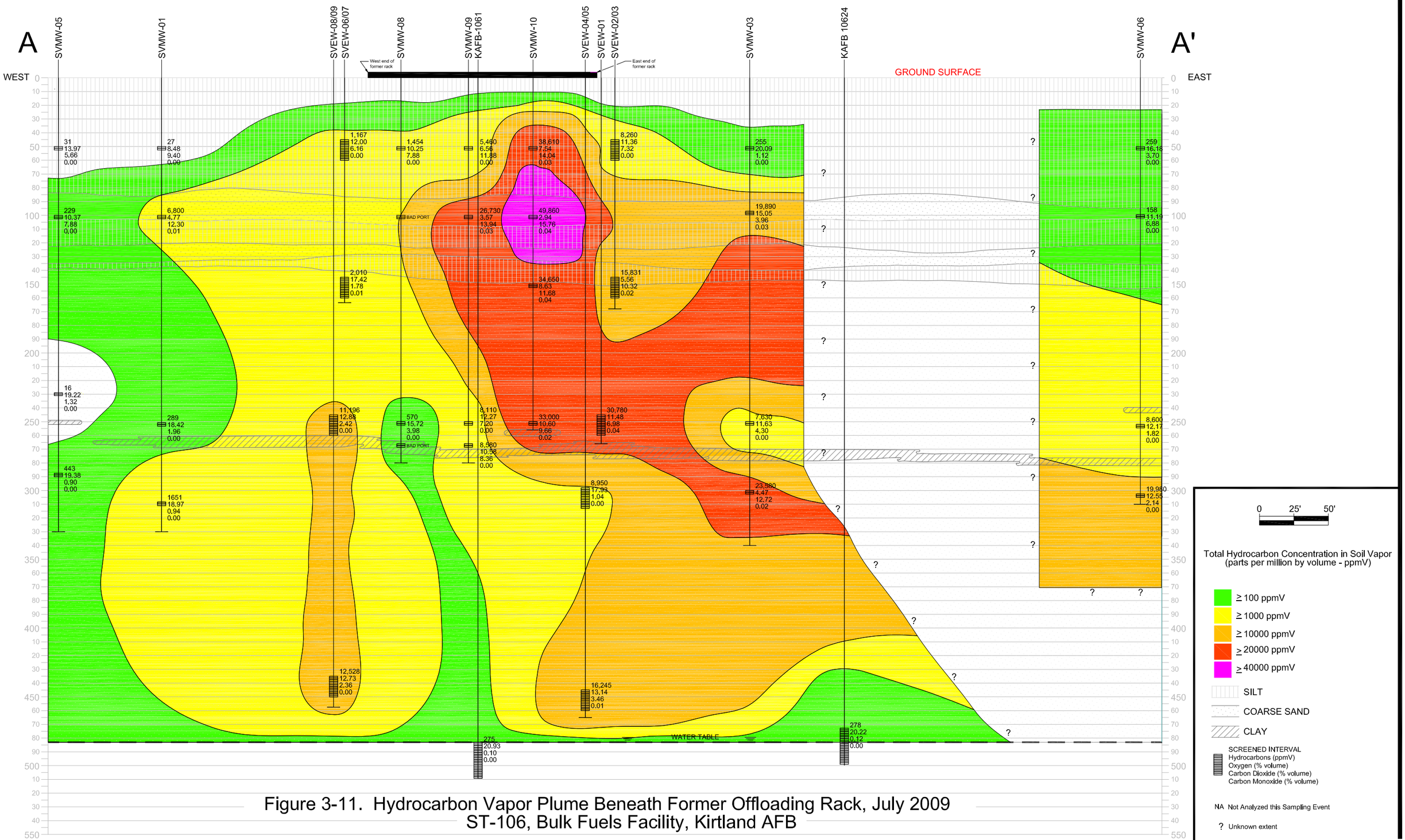
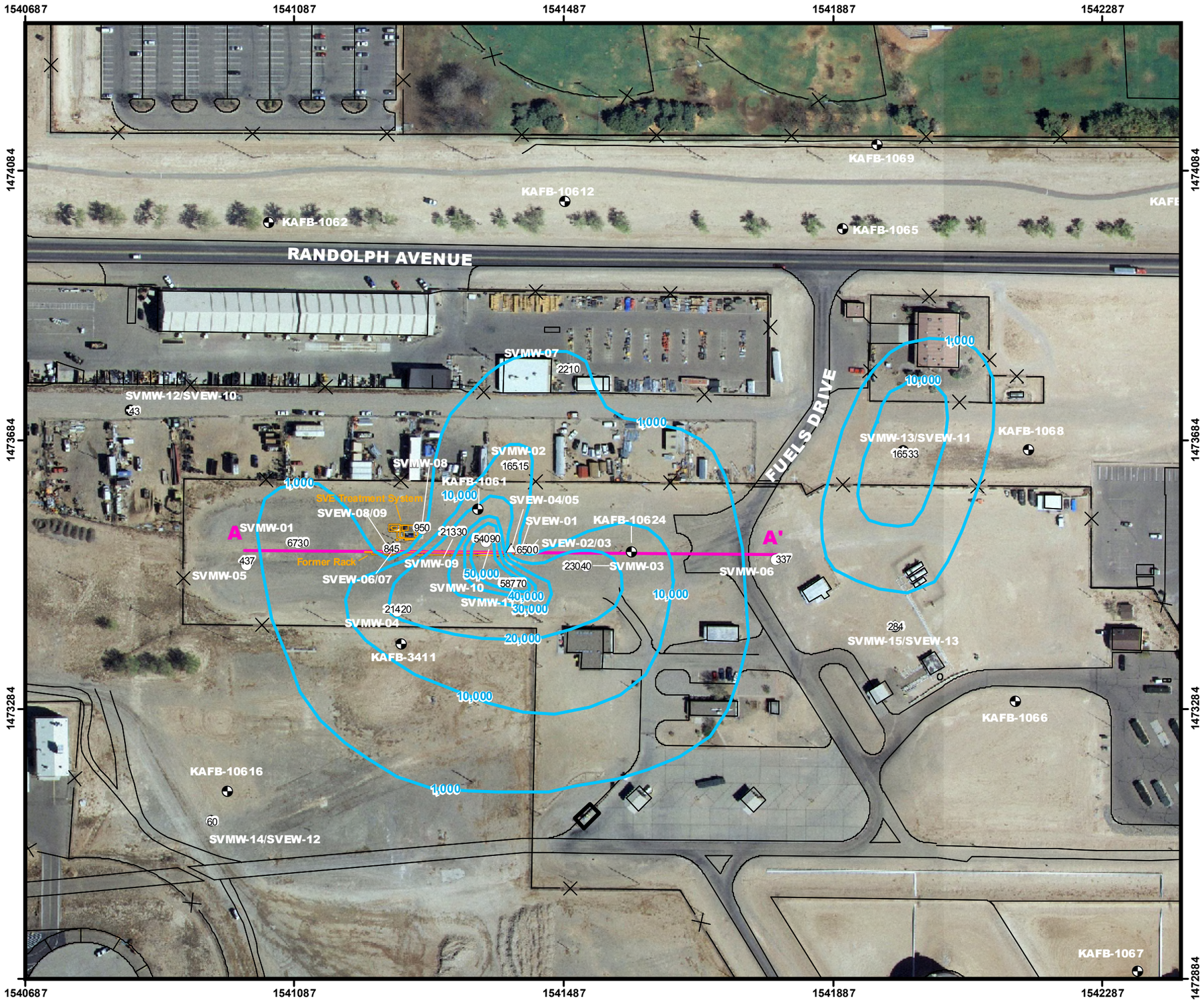
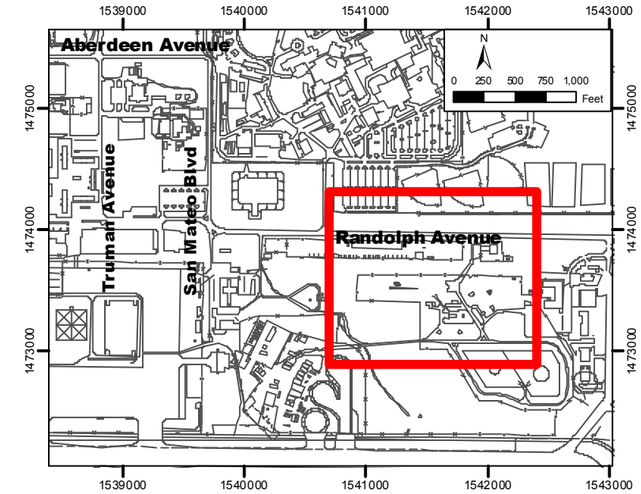



Figure 3-11. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, July 2009
ST-106, Bulk Fuels Facility, Kirtland AFB

CH2MHILL




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

N

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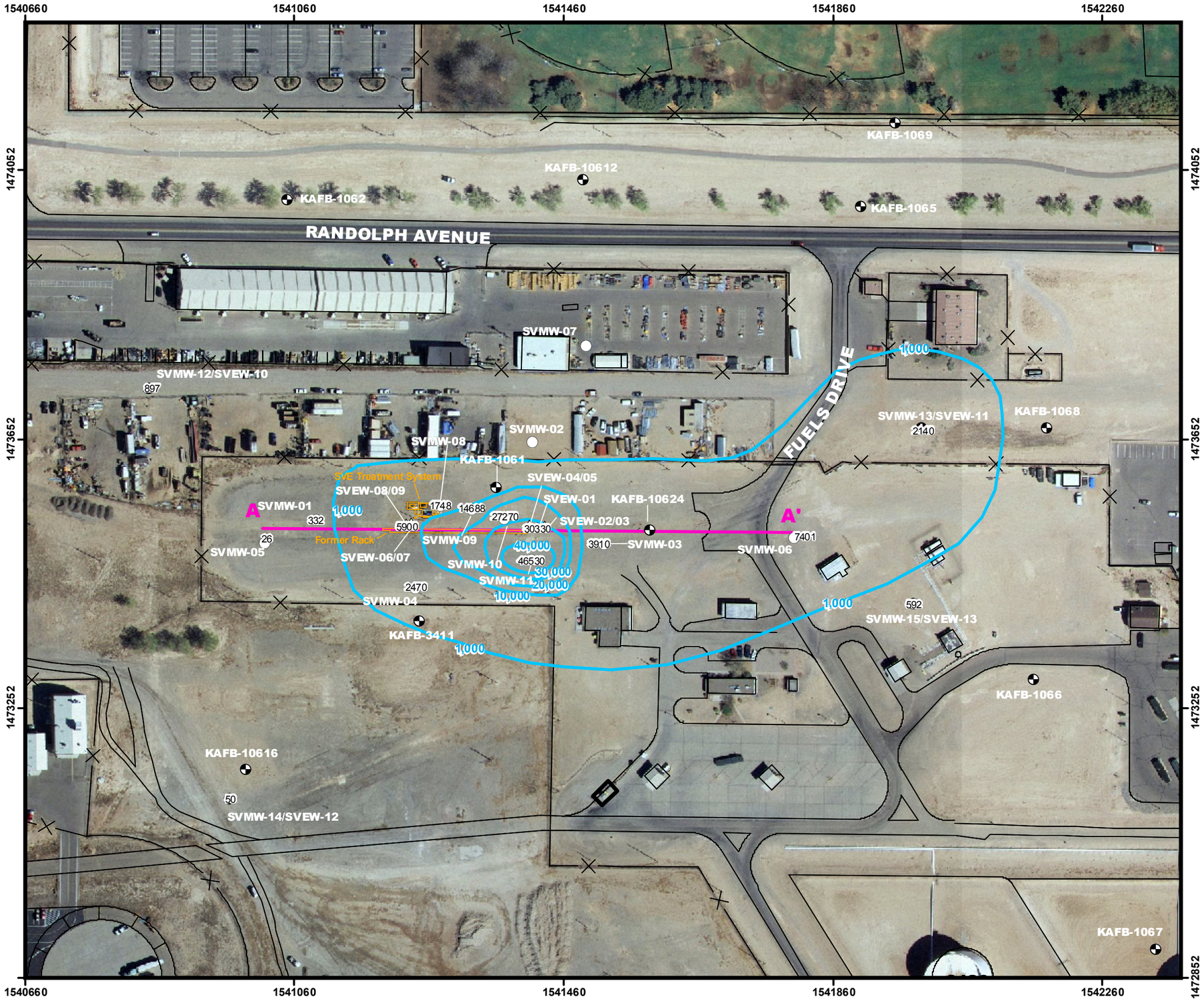
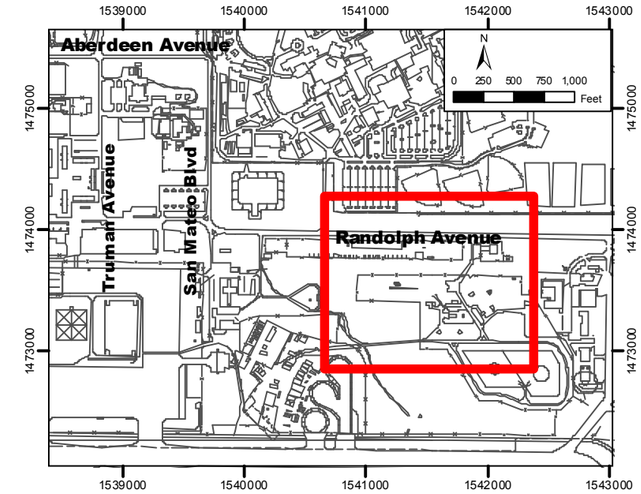
Figure 3-2

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-November 9-12, 2009

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

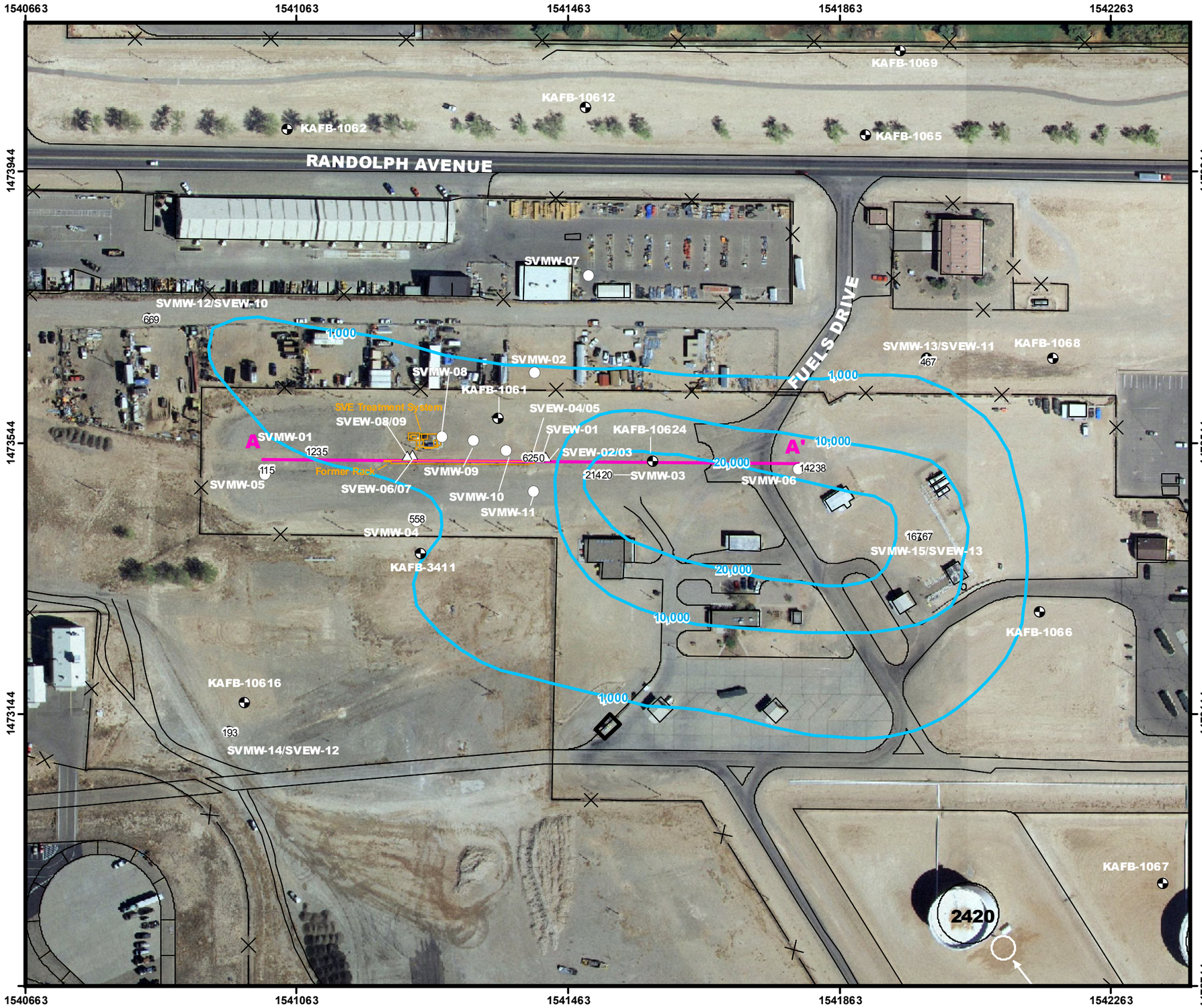
0 150 300 450 Feet

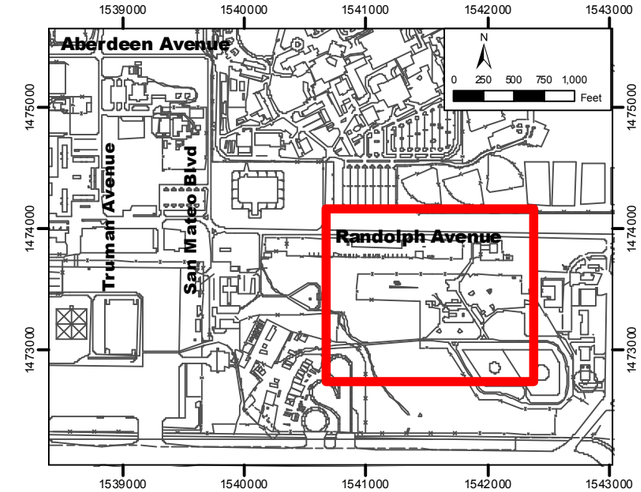
Semi-Annual Summary and Performance Report
October 2009 through March 2009
Bulk Fuels Facility

Figure 3-3

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-November 9-12, 2009

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

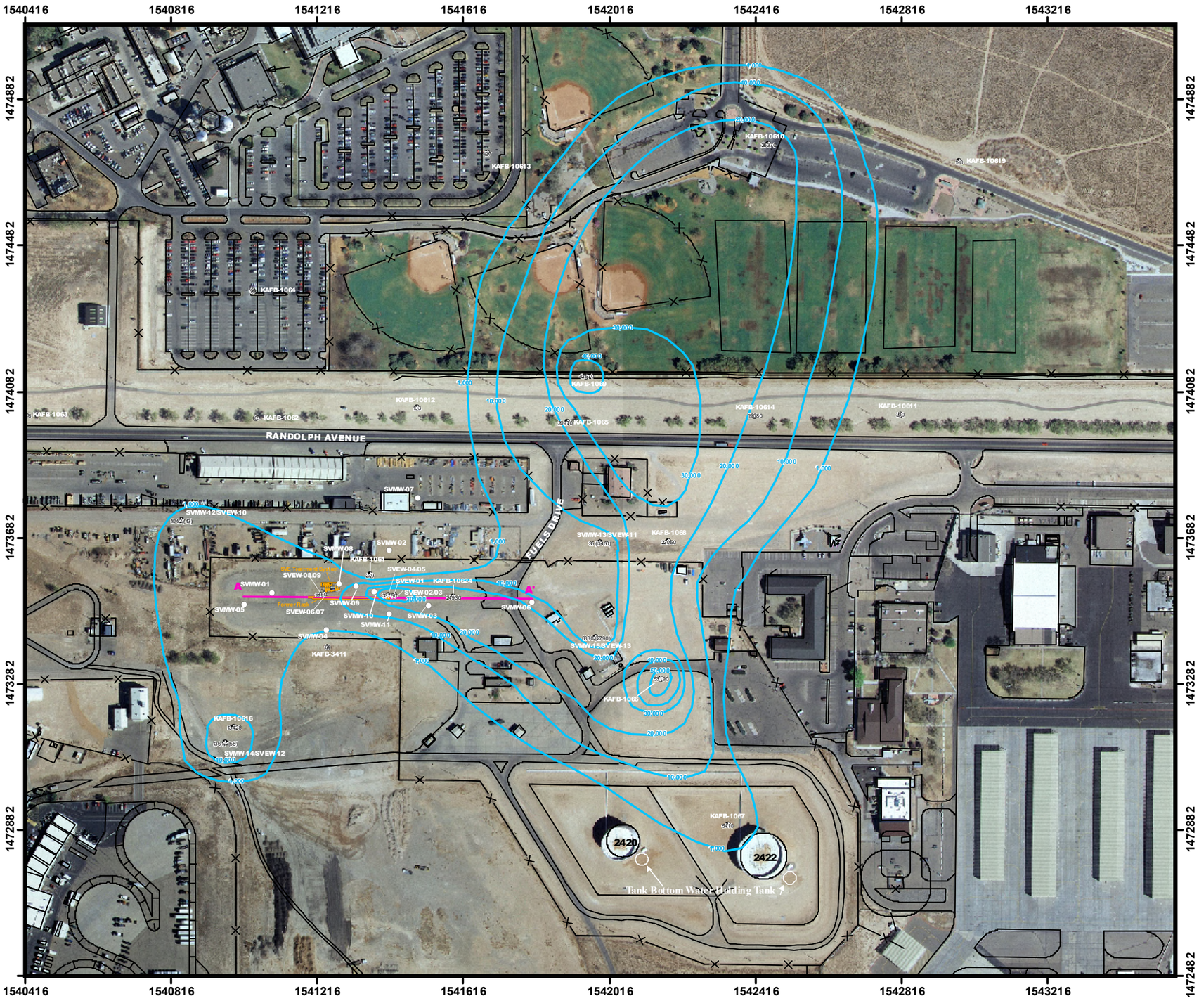
0 150 300 450 Feet

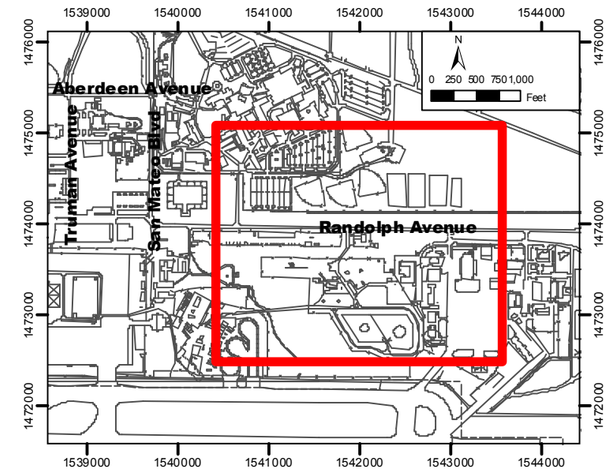
Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-4

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-November 9-12, 2009

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 — NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 — TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 200 400 600 Feet

N

Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-5

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-November 9-12, 2009

Revision Date: 27 May 2010

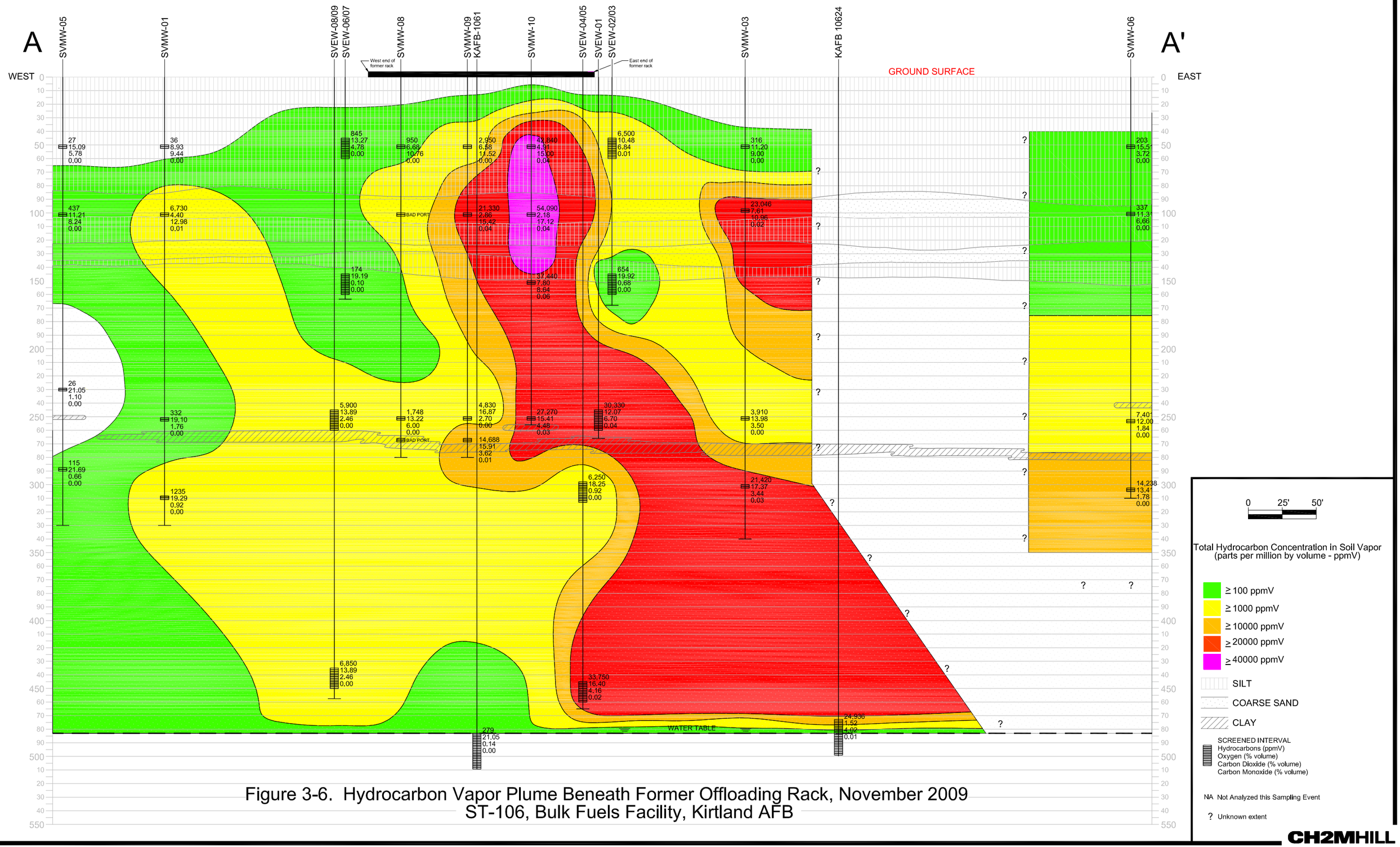
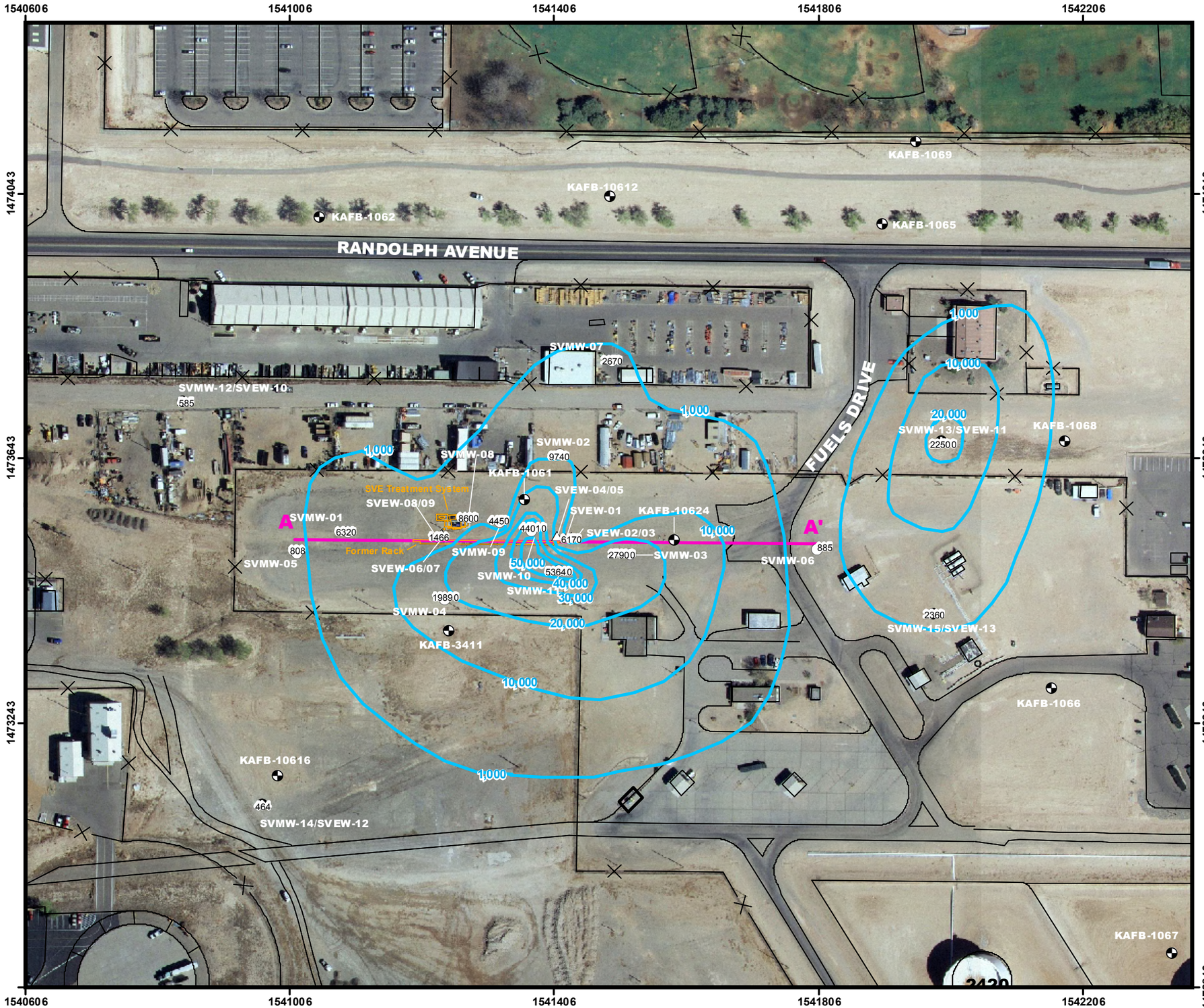
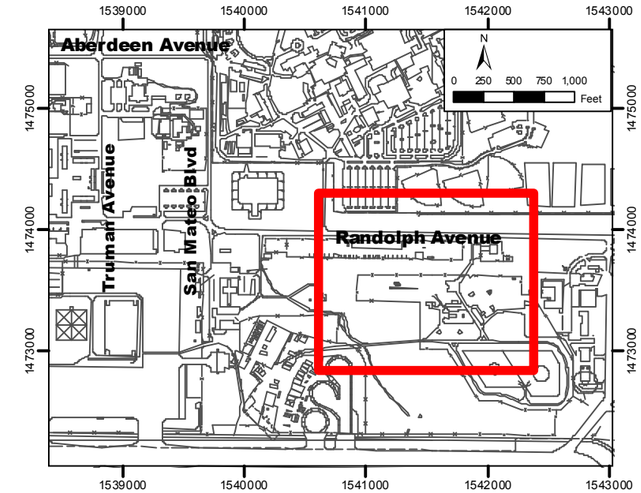



Figure 3-6. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, November 2009
ST-106, Bulk Fuels Facility, Kirtland AFB

CH2MHILL




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

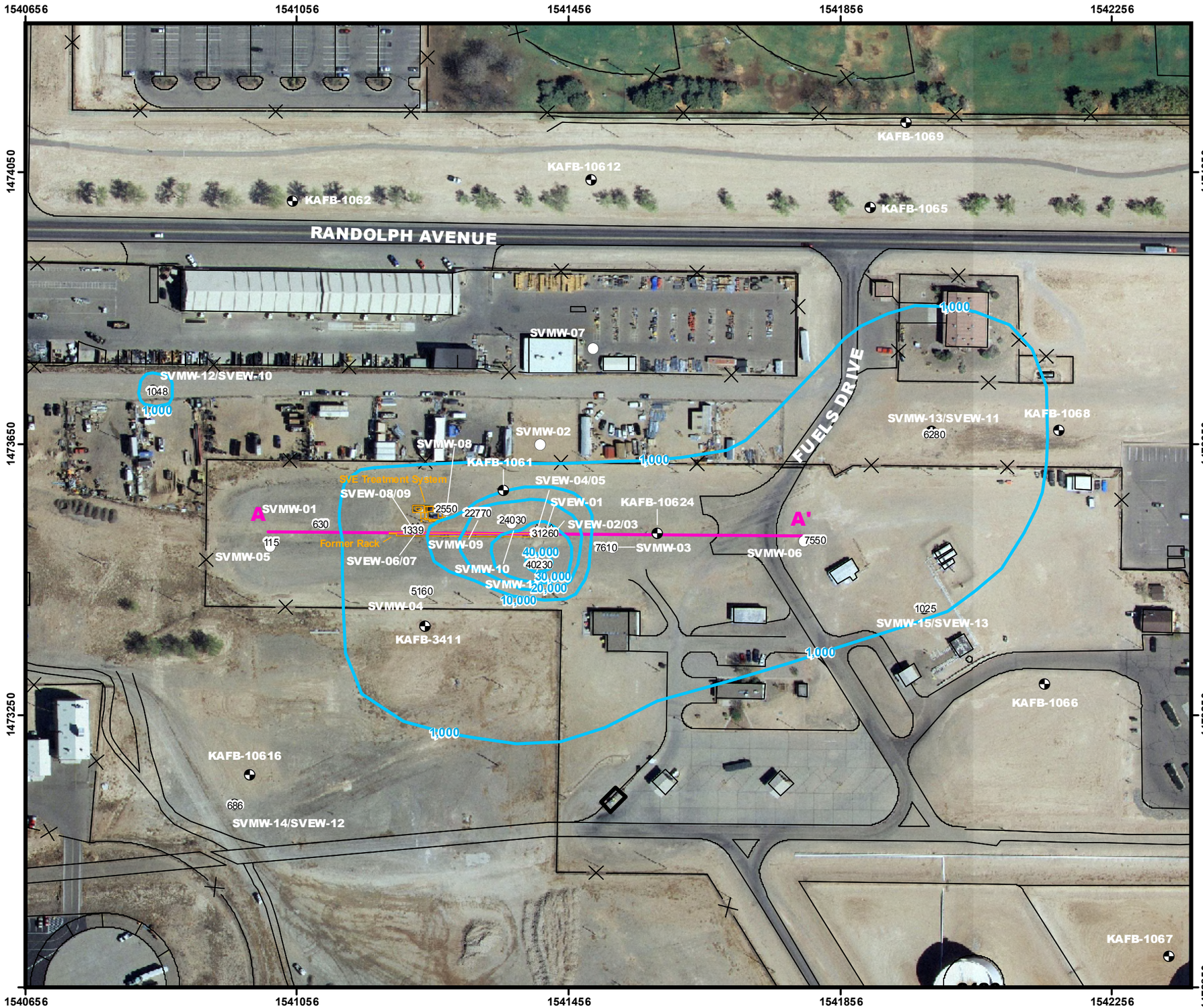
N

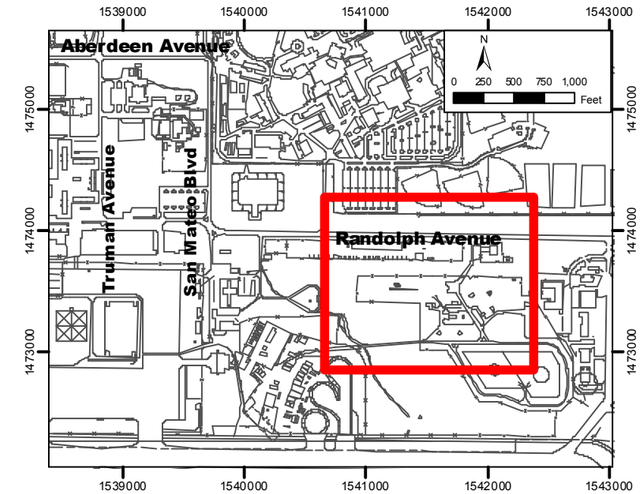
Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-7

Total Petroleum Hydrocarbons in Soil Vapor, 150 Ft Bgs-February 15-19, 2010

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 150 300 450 Feet

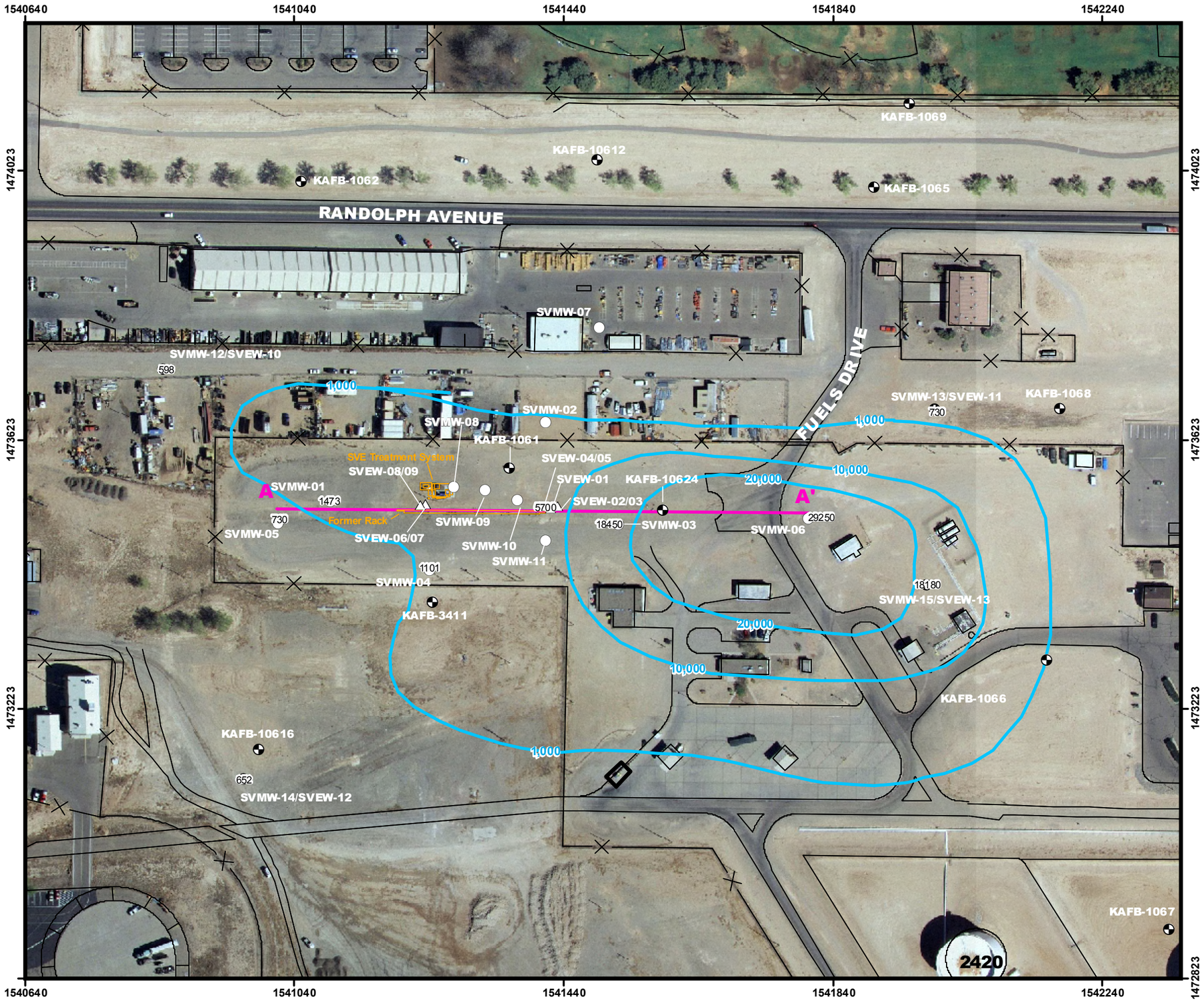
N

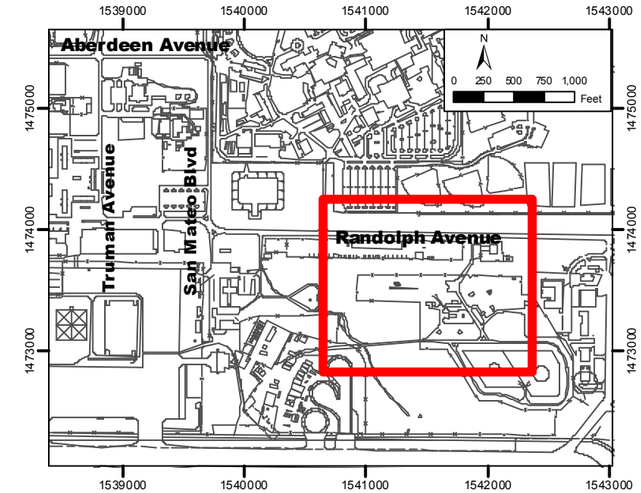
Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-8

Total Petroleum Hydrocarbons in Soil Vapor, 250 Ft Bgs-February 15-19, 2010

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

N

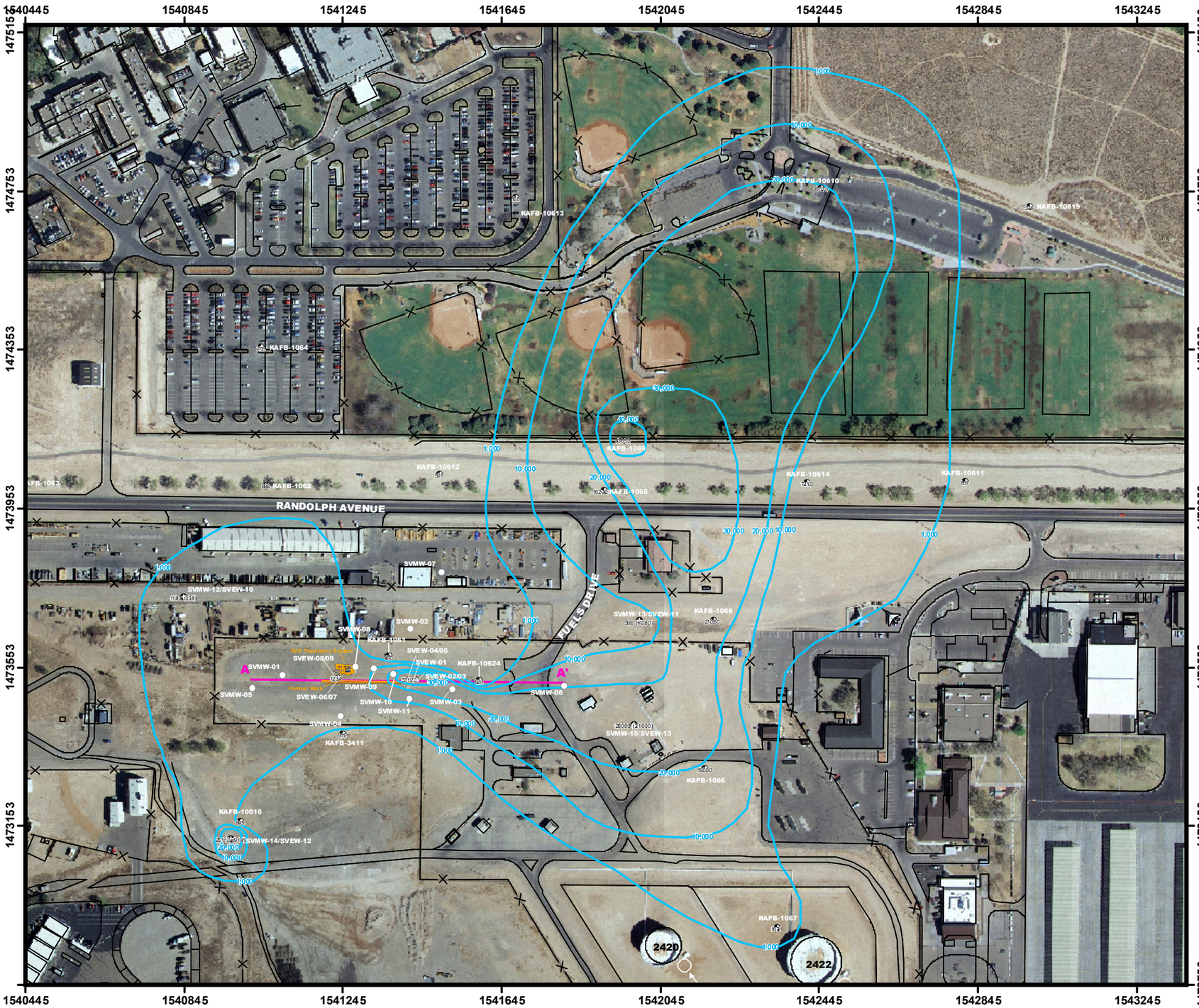
0 150 300 450 Feet

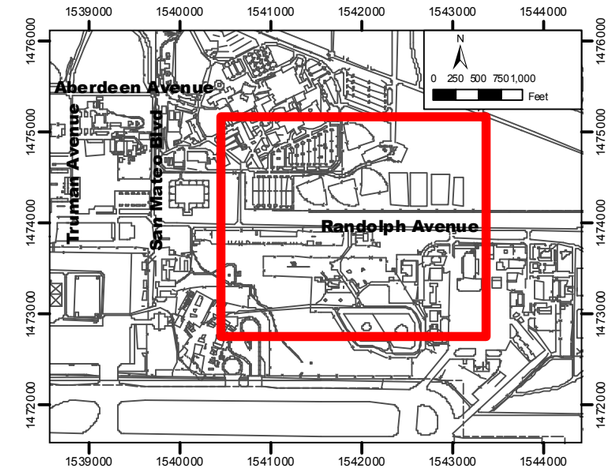
Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-9

Total Petroleum Hydrocarbons in Soil Vapor, 350 Ft Bgs-February 15-19, 2010

Revision Date: 27 May 2010




## LEGEND

- Soil vapor extraction well
- Soil vapor monitoring well
- Distal soil vapor monitoring/extraction well
- Groundwater monitoring well
- 1541812 NM Central State Plane Feet, NAD 83
- Total petroleum hydrocarbons in soil vapor (ppmV)
- 45450 TPH Concentration in Soil Vapor (ppmV)
- Cross-Section Line A-A'

0 200 400 600 Feet

N

Semi-Annual Summary and Performance Report
October 2009 through March 2010
Bulk Fuels Facility

Figure 3-10

Total Petroleum Hydrocarbons in Soil Vapor, 450 Ft Bgs-February 15-19, 2010

Revision Date: 27 May 2010

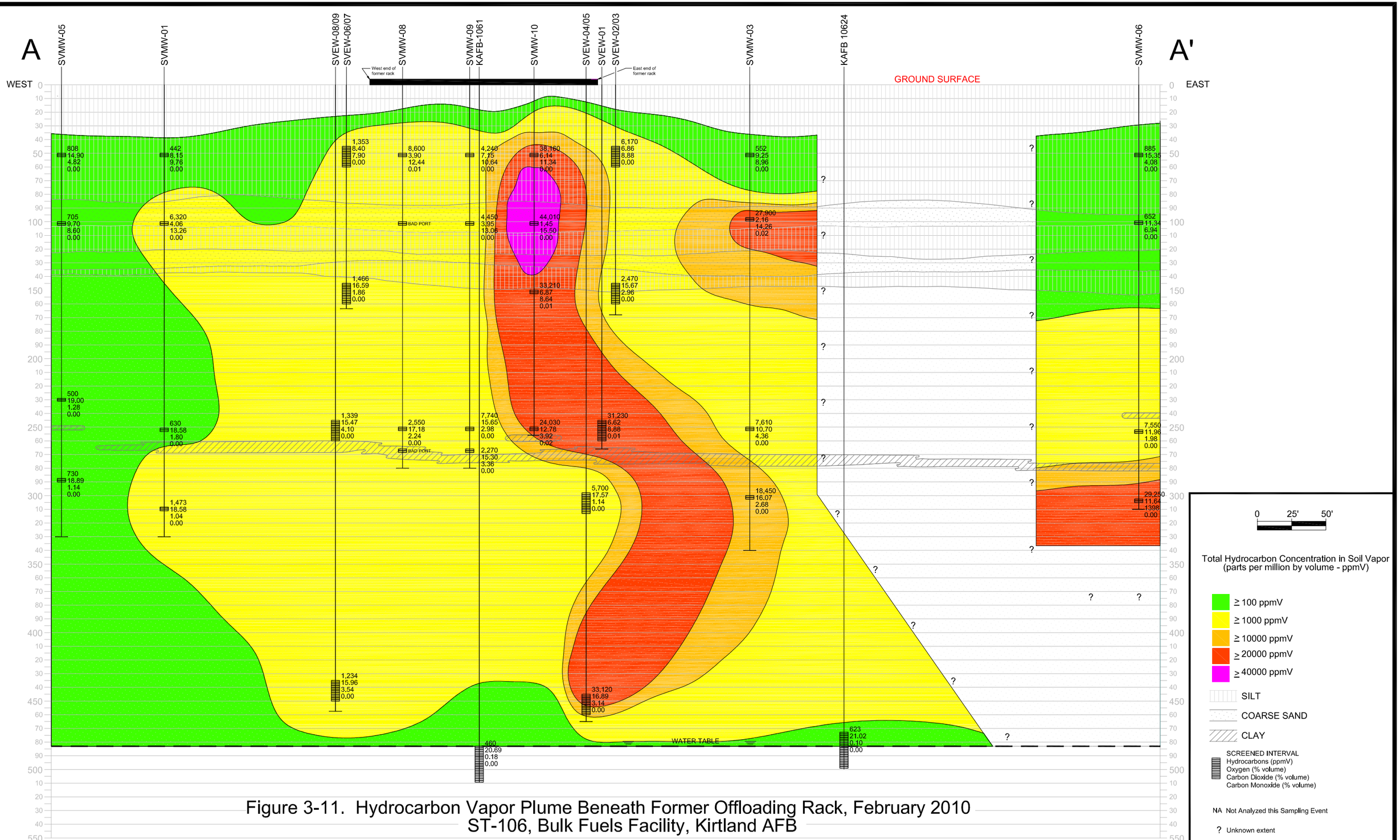



Figure 3-11. Hydrocarbon Vapor Plume Beneath Former Offloading Rack, February 2010
ST-106, Bulk Fuels Facility, Kirtland AFB

# APPENDIX D

## Waste Disposal Documents

## Purge Water Disposal Process Request and Approval

| Chemical Class & Analytical Method | Analyte | NMWQCC-HHSs [a] | IDW Tank BFF (ST106-GW-IDWTank-06052010) 05/06/10 | KAFB-10626 (ST106-GW-10626-27042010) 04/27/10 | KAFB-10627 (ST106-GW-10627-05052010) 05/05/10 | Historic Discharge Concentrations |
|---|---|---|---|---|---|---|
| TPH (µg/L) | Gasoline Range Organics | NA | 8.6 J | 64 U | 17 J | ND to 1200 J |
| Method 8015 | Diesel Range Organics | NA | 460 | 390 | 86 J | ND to 2100 J |
| VOCs (µg/L) | 1,1,1,2-Tetrachloroethane | NA | 1 U | 1 U | 1 U | |
| Method 8260 | 1,1,1-Trichloroethane | 60 | 1 U | 1 U | 1 U | |
| | 1,1,2,2-Tetrachloroethane | 10 | 1 U | 1 U | 1 U | |
| | 1,1,2-Trichloroethane | 10 | 1 U | 1 U | 1 U | |
| | 1,1-Dichloroethane | 25 | 1 U | 1 U | 1 U | |
| | 1,1-Dichloroethene | 5 | 1 U | 1 U | 1 U | |
| | 1,1-Dichloropropene | NA | 1 U | 1 U | 1 U | |
| | 1,2,3-Trichlorobenzene | NA | 1.2 U | 1.2 U | 1.2 U | |
| | 1,2,3-Trichloropropane | NA | 1.5 U | 1.5 U | 1.5 U | |
| | 1,2,4-Trichlorobenzene | NA | 1 U | 1 U | 1 U | |
| | 1,2,4-Trimethylbenzene | NA | 1 U | 1 U | 1 U | ND to 270 |
| | 1,2-Dibromo-3-chloropropane (DBCP)[b] | NA | 5 U | 5 U | 5 U | |
| | 1,2-Dibromoethane (EDB) [b] | 0.1 | **0.11** | 1 U | 1 U | ND to **4.2** |
| | 1,2-Dichlorobenzene | NA | 1 U | 1 U | 1 U | |
| | 1,2-Dichloroethane | 10 | 1 U | 1 U | 1 U | |
| | 1,2-Dichloropropane | NA | 1 U | 1 U | 1 U | |
| | 1,3,5-Trimethylbenzene | NA | 1 U | 1 U | 1 U | ND to 83 J |
| | 1,3-Dichlorobenzene | NA | 1 U | 1 U | 1 U | |
| | 1,3-Dichloropropane | NA | 1 U | 1 U | 1 U | |
| | 1,4-Dichlorobenzene | NA | 1 U | 1 U | 1 U | |
| | 2,2-Dichloropropane | NA | 5 U | 5 U | 5 U | |
| | 2-Butanone (MEK) | NA | 1 U | 1 U | 6 U | ND to 760 |
| | 2-Chlorotoluene | NA | 1 U | 1 U | 1 U | |
| | 2-Hexanone | NA | 5 U | 5 U | 5 U | |
| | 4-Chlorotoluene | NA | 1 U | 1 U | 1 U | |
| | 4-Isopropyltoluene | NA | 1 U | 1 U | 1 U | |
| | 4-Methyl-2-pentanone | NA | 5 U | 5 U | 5 U | |
| | Acetone | NA | 6.2 J | 8.4 J | 2.2 J | ND to 6.2 J |
| | Benzene | 10 | 1 U | 1 U | 1 U | ND to **56.3** |
| | Bromobenzene | NA | 1 U | 1 U | 1 U | |
| | Bromochloromethane | NA | 1 U | 1 U | 1 U | |
| | Bromodichloromethane | NA | 1 U | 1 U | 1 U | |
| | Bromoform | NA | 1 U | 1 U | 1 U | |
| | Bromomethane | NA | 2 U | 2 U | 2 U | |
| | Carbon disulfide | NA | 2 U | 0.21 J | 2 U | |
| | Carbon tetrachloride | 10 | 1 U | 1 U | 1 U | |
| | Chlorobenzene | NA | 1 U | 1 U | 1 U | |
| | Chloroethane | NA | 2 U | 2 U | 2 U | |
| | Chloroform | 100 | 1 U | 1 U | 1 U | |
| | Chloromethane | NA | 2 U | 2 U | 2 U | |
| | cis-1,2-Dichloroethene | NA | 1 U | 1 U | 1 U | |
| | cis-1,3-Dichloropropene | NA | 1 U | 1 U | 1 U | |
| | Dibromochloromethane | NA | 1 U | 1 U | 1 U | |
| | Dibromomethane | NA | 1.1 U | 1.1 U | 1.1 U | |
| | Dichlorodifluoromethane | NA | 2 U | 2 U | 2 U | |
| | Ethylbenzene | 750 | 1 U | 1 U | 1 U | ND to 440 |
| | Hexachlorobutadiene | NA | 1 U | 1 U | 1 U | |
| | Isopropylbenzene | NA | 1 U | 1 U | 1 U | ND to 51 |
| | Methyl tert-butyl ether | NA | 5 U | 5 U | 5 U | |
| | Methylene chloride | 100 | 5 U | 5 U | 5 U | |
| | m-Xylene & p-Xylene | NA | 1.6 J | 5 U | 5 U | ND to 1100 |
| | Naphthalene | 30 [c] | 1 U | 1 U | 1 U | ND to 3.5 J |
| VOCs (µg/L) | n-Butylbenzene | NA | 1 U | 1 U | 1 U | |
| Method 8260 | n-Propylbenzene | NA | 1 U | 1 U | 1 U | ND to 77 |
| | o-Xylene | NA | 1 U | 1 U | 1 U | ND to 460 |
| | sec-Butylbenzene | NA | 1 U | 1 U | 1 U | |
| | Styrene | NA | 1 U | 1 U | 1 U | |
| | tert-Butylbenzene | NA | 1 U | 1 U | 1 U | |
| | Tetrachloroethene | 20 | 1 U | 1 U | 1 U | |
| | Toluene | 750 | 1 U | 2.7 | 9.9 | ND to **3,100** |
| | trans-1,2-Dichloroethene | NA | 1 U | 1 U | 1 U | |
| | trans-1,3-Dichloropropene | NA | 1 U | 1 U | 1 U | |

| Chemical Class & Analytical Method | Analyte | NMWQCC-HHSs [a] | IDW Tank BFF (ST106-GW-IDWTank-06052010) 05/06/10 | KAFB-10626 (ST106-GW-10626-27042010) 04/27/10 | KAFB-10627 (ST106-GW-10627-05052010) 05/05/10 | Historic Discharge Concentrations |
|---|---|---|---|---|---|---|
| | Trichloroethene | 100 | 1 U | 0.57 J | 1 U | ND to 0.8 |
| | Trichlorofluoromethane | NA | 2 U | 2 U | 2 U | |
| | Vinyl chloride | 1 | 1 U | 1 U | 1 U | |
| | Xylenes (total) | 620 | 1.7 J | 2 U | 2 U | ND to 1100 |
| SVOCs (µg/L) Method 8270 | 1,2 Diphenylhydrazine | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 1,2-Dichlorobenzene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 1,3-Dinitrobenzene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2,4,5-Trichlorophenol | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 2,4,6-Trichlorophenol | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 2,4-Dichlorophenol | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2,4-Dimethylphenol | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2,4-Dinitrophenol | NA | 61.5 U | 61.5 U | 61.5 U | |
| | 2,4-Dinitrotoluene | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 2,6-Dinitrotoluene | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 2-Chloronaphthalene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2-Chlorophenol | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2-Methyl-4,6-dinitrophenol | NA | 61.5 U | 61.5 U | 61.5 U | |
| | 2-Methylnaphthalene | 30 [c] | 10.2 U | 10.2 U | 10.2 U | |
| | 2-Methylphenol (o-Cresol) | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 2-Nitroaniline | NA | 51.3 U | 51.3 U | 51.3 U | |
| | 2-Nitrophenol | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 3,3'-Dichlorobenzidine | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 3-Nitroaniline | NA | 51.3 U | 51.3 U | 51.3 U | |
| | 4-Bromophenyl-phenylether | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 4-Chloro-3-methylphenol | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 4-Chloroaniline | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 4-Chlorophenyl-phenylether | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 4-Methylphenol | NA | 20.5 U | 20.5 U | 20.5 U | |
| | 4-Nitroaniline | NA | 10.2 U | 10.2 U | 10.2 U | |
| | 4-Nitrophenol | NA | 51.3 U | 51.3 U | 51.3 U | |
| | Acenaphthene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Acenaphthylene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Anthracene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Benzidine | NA | 154 U | 154 U | 154 U | |
| | Benzo(a)anthracene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Benzo(a)pyrene | 0.7 | 10.2 U | 10.2 U | 10.2 U | |
| | Benzo(b)fluoranthene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Benzo(ghi)perylene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Benzo(k)fluoranthene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Benzoic acid | NA | 61.5 U | 61.5 U | 61.5 U | |
| | bis(2-Chloroethoxy)methane | NA | 10.2 U | 10.2 U | 10.2 U | |
| | bis(2-Chloroethyl) ether | NA | 10.2 U | 10.2 U | 10.2 U | |
| | bis(2-Ethylhexyl) phthalate | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Butyl benzyl phthalate | NA | 20.5 U | 20.5 U | 20.5 U | |
| SVOCs (µg/L) Method 8270 | Chrysene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Dibenz(a,h)anthracene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Dibenzofuran | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Diethyl phthalate | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Dimethyl phthalate | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Di-n-butyl phthalate | NA | 20.5 U | 20.5 U | 20.5 U | |
| | Di-n-octyl phthalate | NA | 1.8 J | 20.5 U | 20.5 U | ND to 1.8 |
| | Fluoranthene | NA | 20.5 U | 20.5 U | 20.5 U | |
| | Fluorene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Hexachlorobenzene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Hexachlorobutadiene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Hexachlorocyclopentadiene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Hexachloroethane | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Indeno(1,2,3-cd)pyrene | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Naphthalene | 30 [c] | 10.2 U | 10.2 U | 10.2 U | |
| | Nitrobenzene | NA | 20.5 U | 20.5 U | 20.5 U | |
| | N-Nitrosodi-n-propylamine | NA | 20.5 U | 20.5 U | 20.5 U | |
| | N-Nitrosodiphenylamine | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Pentachlorophenol | NA | 61.5 U | 61.5 U | 61.5 U | |
| | Phenanthrene | NA | 10.2 U | 10.2 U | 10.2 U | |

| Chemical Class & Analytical Method | Analyte | NMWQCC-HHSs [a] | IDW Tank BFF (ST106-GW-IDWTank-06052010) 05/06/10 | KAFB-10626 (ST106-GW-10626-27042010) 04/27/10 | KAFB-10627 (ST106-GW-10627-05052010) 05/05/10 | Historic Discharge Concentrations |
|---|---|---|---|---|---|---|
| | Phenol | NA | 10.2 U | 10.2 U | 10.2 U | |
| | Pyrene | NA | 10.2 U | 10.2 U | 10.2 U | |
| Anions (mg/L) Method 300.0 | Nitrate | 10 | 2.8 J | 2.2 J | 0.2 J | ND to 0.97 J |
| | Sulfate | 250[d] | 48.9 | 73.6 | 29.8 | 26 to 44.8 |
| Metals (mg/L) Method 6010 | Iron, dissolved | 1 | 0.684 | 0.1 U | 0.0084 J | 0.04 to **1.05** |
| | lead, dissolved | 0.05 | 0.00544 J | 0.015 U | 0.00417 J | |
| | Manganese, dissolved | 0.2 | 0.102 | **0.484** | **0.269** | 0.0016 to **0.95** |

a. New Mexico Water Quality Control Commission (WQCC) Regulations. Concentrations exceeding standards shown in **BOLD**.

b. Samples analyzed for EDB using Methods 8260 and 8011. Table includes only Method 8011 results because this method has a lower quantitation limit.
c. The WQCC regulation for PAHs of 30 µg/L is a total of the concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
d. Secondary National Drinking Water Standard for taste and odor.
Shading indicates the analyte was detected.
NA - not applicable U - not detected above Laboratory Reporting Limit
J - estimated value, concentration is less than Laboratory Reporting Limit but greater than Laboratory Method Detection Limit

NEW MEXICO
ENVIRONMENT DEPARTMENT

*Ground Water Quality Bureau*

BILL RICHARDSON
Governor
DIANE DENISH
Lieutenant Governor

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Phone (505) 827-2900 Fax (505) 827-2965
www.nmenv.state.nm.us

RON CURRY
Secretary
SARAH COTTRELL
Deputy Secretary

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

July 7, 2010

Mr. Mark Holmes, Project Manager
Kirtland Air Force Base
2050 Wyoming Blvd. SE
Kirtland AFB, NM 87117

**RE: Response to Notice of Intent to Discharge; Discharge Permit Not Required for Kirtland Air Force Base, AI: 2404**

Dear Mr. Holmes:

The New Mexico Environment Department (NMED) received a Notice of Intent on July 6, 2010 to discharge 900 gallons of monitoring well purge water and 450 gallons of monitoring well development water associated with the Bulk Fuels Facility restoration project. The notice satisfies the requirements of Subsection A of 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission (WQCC) Regulations (20.6.2 NMAC). The proposed discharge is located at the Bulk Fuels Facility, Randolph Drive, Kirtland Air Force Base, Bernalillo County.

Based on the information (including analytical data) provided in your Notice of Intent, NMED has determined that a Discharge Permit is not required as long as the discharge is as described. A Discharge Permit is not required at this time because the information provided indicates it is unlikely that the discharge will adversely affect ground water quality.

The proposed discharge is briefly described as follows:
Approximately 900 gallons of purge water and 450 gallons of development water will be discharged to the ground surface within the Bulk Fuels Facility. The discharged water will be discharged at the site in a controlled manner, containing the water in the immediate area of the site and avoiding runoff into storm sewers or arroyos. The depth to ground water is approximately 500 feet.

Although a Discharge Permit is not being required for this discharge at this time, you are not relieved of liability should your operation result in actual pollution of surface or ground waters. Further, this decision by NMED does not relieve you of your responsibility to comply with any other applicable federal, state, and/or local laws and regulations, such as zoning requirements, plumbing codes and nuisance ordinances.

If at some time in the future you intend to change the amount, character or location of your discharge, or if observation or monitoring shows that the discharge is not as described in your Notice of Intent, you must file a revised Notice of Intent with the Ground Water Quality Bureau.

If you have any questions, please contact George Schuman, Program Manager of the Ground Water Pollution Prevention Section, at (505) 827-2945.

Sincerely,

George Schuman for W. Olson

William C. Olson, Chief
Ground Water Quality Bureau

WO:GS

cc: Jennifer Ickes, District Manager, NMED District I
NOI File
County File

## Cotter, Elaine/ABQ

**From:** Holmes, Mark D Civ USAF AFMC 377 MSG/CEANR [Mark.Holmes@kirtland.af.mil]
**Sent:** Wednesday, July 07, 2010 8:01 AM
**To:** Moayyad, Ben/ABQ
**Subject:** FW: Purge water disposal consultation
**Attachments:** KAFB Bulk Fuels NoDPReq 07-07-10.pdf

Ben

Forwarding NMED acknowledgement receipt of our discharge of the waste water at the bulk fuels.

//Signed//
Mark Holmes
Project Manager
Environmental Management
Restoration Section
505 846-9005

-----Original Message-----
From: Schuman, George, NMENV [mailto:george.schuman@state.nm.us]
Sent: Wednesday, July 07, 2010 7:42 AM
To: Holmes, Mark D Civ USAF AFMC 377 MSG/CEANR
Subject: RE: Purge water disposal consultation

Mark, the NOI response is attached.

-----Original Message-----
From: Holmes, Mark D Civ USAF AFMC 377 MSG/CEANR
[mailto:Mark.Holmes@kirtland.af.mil]
Sent: Tuesday, July 06, 2010 9:01 AM
To: Schuman, George, NMENV
Subject: FW: Purge water disposal consultation

George

Forwarding an email from our contractor concerning disposal of purge water from the groundwater monitoring at the Bulk Fuels Facility project.

The discharge is in compliance with our newly established procedures for self evaluation of the analytical results to determine if the purge water can be discharged without a formal request to you and your approval.

Two tables of analytical results are attached, which are described in the contractor's email. The purge water is combined into one tank because eleven monitor wells related to the fuels project are located off-base, which require on-base storage.

As requested, the NOI is attached.

I will continue to provide documentation of these discharges for your records.

Thanks

//Signed//
Mark Holmes
Project Manager
Environmental Management
Restoration Section
505 846-9005

-----Original Message-----
From: Ben.Moayyad@CH2M.com [mailto:Ben.Moayyad@CH2M.com]
Sent: Thursday, July 01, 2010 10:43 AM
To: Holmes, Mark D Civ USAF AFMC 377 MSG/CEANR
Subject: Purge water disposal consultation

Mr. Holmes,

We are scheduled this week to release the water from the purge tank and the development water tanks from 2nd quarter 2010 bulk fuels sampling and well installation work. This purge water disposal is to proceed with the prior agreement by the NMED. Groundwater analytical results have been compared to previous results and are found to be consistent with historic values. The
current analytical data meet the disposal criteria from the prior agreement.

CH2MHILL plans to release the purge water and development water within the Bulk Fuels Facility as agreed previously with the NM Water Quality Control Board. The results were within acceptable criteria and are attached for your review. There is currently 900 gallons of purge water in the dedicated purge water tank at the fuels facility. Additionally, a tank belonging to the drilling subcontractor contains approximately 450 gallons of well development purge water for wells KAFB-10626 and KAFB-10627. The attached
IDW results file contains analytical results from well development samples and for a composite sample from the 900 gallons of purge water from the storage tank.

Result were also compared on a well by well basis to validate compliance with the NMED agreement. The attached spreadsheet provides analytical results for each well sampled as part of the regular 2nd quarter groundwater monitoring event. This supplemental information may not be necessary to evaluate the chemistry of purge water contained in the two holding tanks, but is provided for completeness.

Let me know if there are any concerns or questions.

Thank you,

ben

CH2MHILL

Behnaum Moayyad, P.G.

Hydrogeologist

4041 Jefferson Plaza NE. Ste 200

Albuquerque, NM 87109

Direct Phone: 505 855-5201

Direct Fax: 505 816-0598

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# APPENDIX E

## Bulk Fuels Facility
## Well Construction Report
## Second Quarter 2010

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# ATTACHMENTS

1 KAFB-10628 Core Sample Physical Property Data
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3 Office of the State Engineer Documentation
4 Investigation Derived Waste Disposal Documentation

# FIGURES

**Figure** **Page**

1 Location of Groundwater Monitoring Wells ..... 3

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AFB | Air Force Base |
| ARCH | air-rotary casing hammer |
| bgs | below ground surface |
| C&D | Construction and Demolition |
| DRO | diesel range organics |
| EDB | 1,2-dibromoethane |
| EPA | United States Environmental Protection Agency |
| ft | foot/feet |
| GRO | gasoline range organics |
| GWQB | Ground Water Quality Bureau |
| I.D. | inside diameter |
| IDW | investigation-derived waste |
| MCL | maximum contaminant level |
| NMED | New Mexico Environment Department |
| NMWQCC-HHS | New Mexico Water Quality Control Commission – Human Health Standards |
| O.D. | outside diameter |
| OSE | Office of the State Engineer |
| PID | photoionization detector |
| PSH | phase separated hydrocarbon |
| PVC | polyvinyl chloride |
| SVOC | semi-volatile organic compound |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TPH | total petroleum hydrocarbons |
| USAF | United States Air Force |
| VOC | volatile organic compound |

# 1.0 INTRODUCTION

## 1.1 Background

Fuel-related contaminants have been detected in soil, soil vapor, and groundwater near the former fuel offloading rack at the Bulk Fuels Facility, on the east side of the Bulk Fuels Facility, and to the north of the facility, including off base areas north of the Kirtland Air Force Base (AFB) boundary. Additional investigation activities were undertaken during the second quarter of 2010, including installation of three additional monitoring wells to further delineate dissolved phase impacts to groundwater and four nested piezometers to measure soil gas contaminant concentrations in the vadose zone.

### 1.1.1 Groundwater and Soil Vapor Monitoring Well Installation

During the second quarter of 2010, field work was conducted to install three additional groundwater monitoring wells in association with the Bulk Fuels Facility investigation. The borehole for one well was used to concurrently install four soil vapor monitoring points. Well installation proceeded according to the *Stage 2 Abatement Plan Modification* (USAF, 2007), the November 2009 *Stage 2 Abatement Plan Modification Addendum* (USAF, 2009) approved by the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB), and subsequent direction from the NMED Hazardous Waste Bureau (HWB) (NMED-HWB, 2010). The new wells, designated KAFB-10626, KAFB-10627, and KAFB-10628 were completed during April and May 2010 and supplement the other existing 25 site groundwater monitoring wells. The location of the new wells that were completed during the reporting period are illustrated on Figure 1 along with the locations of the existing site wells.

The installation of wells KAFB-10626 and KAFB-10627 support the continuing investigation to delineate the nature and extent of dissolved-phase groundwater impacts that extend out from the PSH body. Groundwater samples collected from these wells after completion bound the downgradient and upgradient extent of the contaminant plume as defined by the United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs). The installation of well KAFB-10628 serves to better quantify the thickness of PSH in the central portion of the PSH body, as well as to quantify dissolved phase contaminant concentrations in groundwater below the PSH body. Four soil vapor monitoring points were also installed in the borehole used for KAFB-10628. Core samples were also collected above the water table and immediately below the water table from this borehole and analyzed for physical property data. This data is presented in Attachment 1. Groundwater sample results for the new wells, both post-development samples and the second quarterly sample collected as part of the second quarter 2010 groundwater sampling event were collected during this reporting period and are discussed with all other groundwater monitoring data in Section 5.

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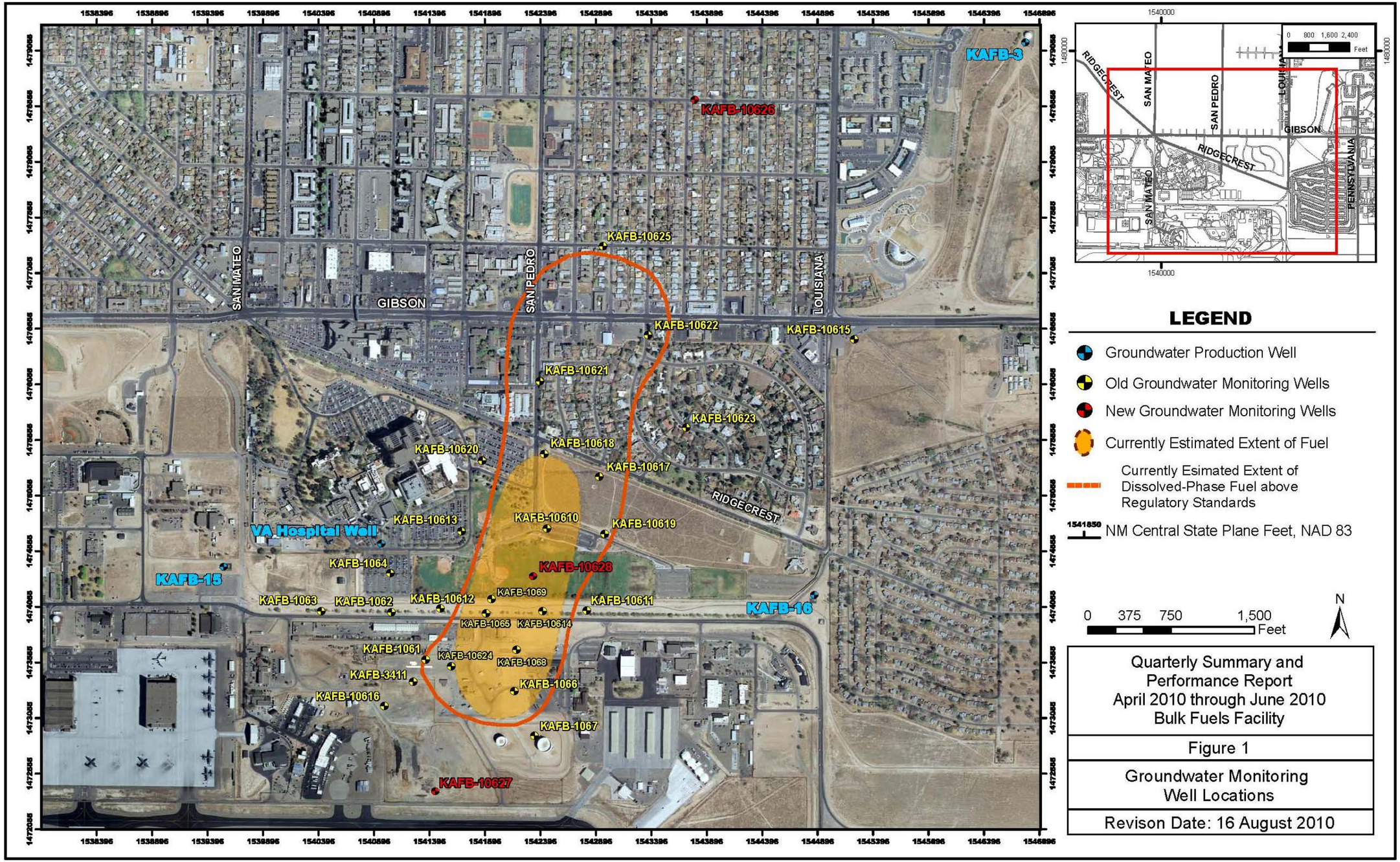
KAFB-3
KAFB-10626
KAFB-10625
KAFB-10622
KAFB-10615
KAFB-10621
KAFB-10623
KAFB-10618
KAFB-10620
KAFB-10617
KAFB-10613
KAFB-10610
KAFB-10619
VA Hospital Well
KAFB-1064
KAFB-15
KAFB-10628
KAFB-1069
KAFB-1063
KAFB-1062
KAFB-10612
KAFB-10611
KAFB-16
KAFB-1065
KAFB-10614
KAFB-1061
KAFB-10624
KAFB-1068
KAFB-3411
KAFB-1066
KAFB-10616
KAFB-1067
KAFB-10627
GIBSON
SAN MATEO
SAN PEDRO
LOUISIANA
RIDGECREST
PENNSYLVANIA
0 800 1,600 2,400 Feet
LEGEND
Groundwater Production Well
Old Groundwater Monitoring Wells
New Groundwater Monitoring Wells
Currently Estimated Extent of Fuel
Currently Esimated Extent of Dissolved-Phase Fuel above Regulatory Standards
NM Central State Plane Feet, NAD 83
0 375 750 1,500 Feet
N
Quarterly Summary and Performance Report April 2010 through June 2010 Bulk Fuels Facility
Figure 1
Groundwater Monitoring Well Locations
Revison Date: 16 August 2010

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# 2.0 WELL INSTALLATION ACTIVITIES

The following field activities were conducted as part of the groundwater monitoring well installation conducted during this reporting period:

- Borehole drilling and lithologic logging for three monitoring well boreholes;
- Installing three groundwater monitoring wells in the regional aquifer;
- Developing three groundwater monitoring wells: KAFB-10626, KAFB-10627, and KAFB-10628;
- Collecting and analyzing a groundwater sample following well development at KAFB-10626, KAFB-10627, and KAFB-10628;
- Sampling investigation-derived waste (IDW), including soil drill cuttings and development water;
- Disposing of soil drilling cuttings at the Kirtland AFB Construction and Demolition (C&D) landfill; and
- Review of well development water sample results for discharge and disposal.

## 2.1 Installation of Monitoring Well KAFB-10626

Offsite drilling activities for groundwater monitoring well KAFB-10626 began on April 14, 2010 and drilling and well construction activities were completed by April 23, 2010. Well KAFB-10626 was drilled using the air-rotary casing hammer (ARCH) drilling method. The ARCH borehole was drilled by advancing an 11-3/4-inch outside diameter (O.D.) temporary steel casing to a depth of 200 feet (ft) below ground surface (bgs). A 9-5/8-inch O.D. temporary steel casing was then telescoped inside of the 11-3/4-inch O.D. casing and advanced to the total depth of the borehole. The well KAFB-10626 borehole was located off of Kirtland AFB and substantially outside the source area. Therefore, subsurface soil characteristics and geology were logged from the drill cuttings only; no discrete soil samples for lithologic description or laboratory analysis were collected during borehole advancement. However, drill cuttings were field-screened with a photoionization detector (PID) to assess possible volatile organic carbon (VOC) contaminated soil. Any PID readings greater than ambient background were recorded during drilling.

The regional water table was encountered at approximately 471 ft bgs during drilling at the well location. The KAFB-10626 borehole was drilled to a depth of 510 ft to accommodate the construction of the monitoring well. Subsurface soil characteristics were logged by the onsite geologist; the borehole geologic logs are provided in Attachment 2.

The new monitoring well was installed as a single-cased, nominal, 4-inch inside diameter (I.D.) schedule 80 polyvinyl chloride (PVC) monitoring well with 20 ft of 0.010-inch factory-slotted PVC screen with a 5-ft sump. A silica sand pack (10/20 Colorado silica sand) was installed around the screened interval to 2 ft above the top of the screen. Transition sand (20/40 Colorado silica sand) was installed to 2 ft above the top of the sand pack. Approximately 2.1 ft of hydrated bentonite chips were placed in the annular space above the transition sand. Bentonite slurry was placed into the annular space above the bentonite chips to approximately 50 ft bgs. Portland cement was installed into the annular space from 50 ft bgs to the ground surface. A 4-ft by 4-ft concrete pad and 12-inch diameter steel well vault was installed as a flush mounted surface well completion. A monitoring well construction diagram is provided in Attachment 2.

The monitoring well was developed by mechanical bailing, swabbing, and over-pumping until the fine grained sediment was removed from the well and water quality parameters had stabilized. The well development log for KAFB-10626 is provided in Attachment 2.

The groundwater monitoring well was installed in compliance with NMED and New Mexico Office of the State Engineer (OSE) applicable regulations (OSE, 2005). An Application for Permit to Drill a Monitoring Well was submitted to and approved by the OSE. A copy of the Application for Permit and the OSE final paperwork issued after well installation is included as Attachment 3.

Well KAFB-10626 was surveyed in May 2010.Survey data is included in Attachment 2.

## 2.2 Installation of Monitoring Well KAFB-10627

Onsite drilling activities for groundwater monitoring well KAFB-10627 began on April 29, 2010 and drilling and well construction activities were completed by May 1, 2010. Well KAFB-10627 was drilled using the ARCH drilling method. The ARCH borehole was drilled by advancing an 11-3/4-inch O.D. temporary steel casing to a depth of 200 ft bgs. A 9-5/8-inch O.D. temporary steel casing was then telescoped inside of the 11-3/4-inch O.D. casing and advanced to the total depth of the borehole. Subsurface soil characteristics and geology were logged from the drill cuttings only; no discrete soil samples for lithologic description or laboratory analysis were collected during borehole advancement. However, drill cuttings were field-screened with a PID to assess possible VOC contaminated soil. Any PID readings greater than ambient backgrounds were recorded during drilling.

The regional water table was encountered at approximately 488 ft bgs during drilling at the well location. The KAFB-10627 borehole was drilled to a depth of 530 ft to accommodate the construction of the monitoring well. Subsurface soil characteristics were logged by the onsite geologist; the borehole geologic logs are provided in Attachment 2.

The new monitoring well was installed as a single-cased, nominal, 4-inch I.D. schedule 80 PVC monitoring well with 20 ft of 0.010-inch factory-slotted PVC screen with a 5-ft sump. A silica sand pack (10/20 Colorado silica sand) was installed around the screened interval to 2 ft above the top of the screen. Transition sand (20/40 Colorado silica sand) was installed to 2 ft above the top of the sand pack. Approximately 50 ft of hydrated bentonite chips were placed in the annular space above the transition sand. Bentonite slurry was placed into the annular space above the bentonite chips to approximately 50 ft bgs. Portland cement was installed into the annular space from 50 ft bgs to the ground surface. A 4-ft by 4-ft concrete pad and 12-inch diameter steel well vault was installed as a flush mounted surface well completion. A monitoring well construction diagram is provided in Attachment 2.

The monitoring well was developed by mechanical bailing, swabbing, and over-pumping until the fine grained sediment was removed from the well and water quality parameters had stabilized. The well development log for KAFB-10627 is provided in Attachment 2.

The groundwater monitoring well was installed in compliance with NMED and OSE applicable regulations (OSE, 2005). An Application for Permit to Drill a Monitoring Well was submitted to and approved by the OSE. A copy of the Application for Permit and the OSE final paperwork issued after well installation is included as Attachment 3.

Well KAFB-10627 was surveyed in May 2010. Survey data is included in Attachment 2.

## 2.3 Installation of Monitoring Well KAFB-10628

Onsite drilling activities for groundwater monitoring well KAFB-10628 and soil vapor monitoring wells SVMW-10628 (four soil vapor wells in total) began on May 4, 2010 and drilling and well construction activities were completed by May 16, 2010. The borehole for groundwater well KAFB-10628 and soil vapor well SVMW-10628 was drilled using the ARCH drilling method. The ARCH borehole was drilled by advancing an 11-3/4-inch O.D. temporary steel casing to a depth of 260 ft bgs. A 9-5/8-inch O.D. temporary steel casing was then telescoped inside of the 11-3/4-inch O.D. casing and advanced to the total depth of the borehole. Subsurface soil characteristics and geology were logged from the drill cuttings only; no discrete soil samples for lithologic description or laboratory analysis were collected during borehole advancement. However, drill cuttings were field-screened with a PID to assess possible VOC contaminated soil. Any PID readings greater than ambient backgrounds were recorded during drilling. Soil core samples were also collected from approximately 468 to 499 ft bgs. Soil core physical property data is provided in Attachment 1.

The regional water table was encountered at approximately 496 ft bgs during drilling at the well location. The KAFB-10626 borehole was drilled to a depth of 520 ft to accommodate the construction of the monitoring well. Subsurface soil characteristics were logged by the onsite geologist; the borehole geologic logs are provided in Attachment 2.

The new monitoring well was installed as a single-cased, nominal, 4-inch I.D. schedule 80 PVC monitoring well with 25 ft of 0.010-inch factory-slotted stainless steel screen with a 5-ft sump. A silica sand pack (10/20 Colorado silica sand) was installed around the screened interval to 3 ft above the top of the screen. Transition sand (20/40 Colorado silica sand) was installed to 2 ft above the top of the sand pack. Approximately 15 ft of hydrated bentonite chips were placed in the annular space above the transition sand. The first of four soil vapor monitoring wells was installed with ¾-inch PVC with 2.5 ft of 0.050-inch factory-slotted PVC screen above the hydrated bentonite chips. The soil vapor screen was centered vertically at 450 feet bgs within a 20-ft thick 8/16 Colorado silica sand pack. Approximately 80 ft of hydrated bentonite chips were placed in the annular space above the transition sand. Above the hydrated bentonite chips, the soil vapor monitoring well installation process was repeated three more times, with screens centered at 350, 250, and 150 ft bgs within a 20-ft 8/16 Colorado silica sand, topped by 80 ft of hydrated bentonite chips (90 ft of bentonite chips were placed above the 150 ft bgs soil vapor well). Portland cement was installed into the annular space from 50 ft bgs to the ground surface. A 4-ft by 4-ft concrete pad and 12-inch diameter steel well vault was installed as a flush mounted surface well completion. A monitoring well construction diagram is provided in Attachment 2.

The groundwater monitoring well was not developed because, as expected, it contained free product.

The groundwater monitoring well was installed in compliance with NMED and OSE applicable regulations (OSE, 2005). An Application for Permit to Drill a Monitoring Well was submitted to and approved by the OSE. A copy of the Application for Permit and the OSE final paperwork issued after well installation is included as Attachment 3.

Well KAFB-10628 (and co-located wells SVMW-10628) was surveyed in May 2010. Survey data is included in Attachment 2.

## 2.4 Groundwater Sampling

Post-development groundwater samples were collected from monitoring wells KAFB-10626 (April 27, 2010), KAFB-10627 May 5, 2010), and KAFB-10628 (June 16, 2010). The post-development samples were analyzed for general chemistry parameters by United States Environmental Protection Agency (EPA) Method E310.1 and E300, inorganics by EPA Method SW6010, polycyclic aromatic hydrocarbons by EPA Method SW8310, semi-volatile organic compounds (SVOCs) by EPA Method SW8270, total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method SW8015, and VOCs by EPA Method SW8260. The samples from KAFB-10626 and KAFB-10627 were analyzed for the VOC 1,2-dibromoethane (EDB) by EPA Method 8011. Analytical results are compared to the New Mexico Water Quality Control Commission – Human Health Standards (NMWQCC-HHSs) (20.6.2.3103 NMAC, September 26, 2004) and EPA Maximum Contaminant Levels (MCLs). No compounds were detected at a concentration that exceeded the EPA MCL in groundwater samples from KAFB-10626 and KAFB-10627. The EPA MCLs were exceeded for benzene, toluene, ethylbenzene, total xylenes, and EDB in the groundwater sample from KAFB-10628. Complete analytical results for post-development samples are included in Appendix B with all other reporting period analytical data.

## 2.5 Investigation-Derived Waste

The IDW related to the monitoring well installation consisted of soil generated during borehole drilling; development and purge water generated during bailing, pumping, and sampling of the newly installed monitoring wells, and decontamination water generated during the decontamination of the drilling and development equipment.

### 2.5.1 Soil Drill Cuttings

Approximately 120 cubic yards of soil were generated during well drilling activities. The soil was staged on Kirtland AFB at the Bulk Fuels Facility in six 20-cubic yard roll-off containers. One composite soil sample was collected, following the drilling, from the soil cuttings produced from each well. The composite samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) (EPA, 2002) VOCs by EPA Method SW846-8260, TCLP SVOCs by EPA Method 8270C, TCLP herbicides by EPA Method SW8151, TCLP pesticides by EPA Method SW8081, TCLP metals by EPA Method 6010F, TPH GRO) and DRO by EPA Method 8015, and ignitability analysis.

Based on these analytical results, the soil drill cuttings from KAFB-10626, KAFB-10627, and KAFB-10628 was found to be appropriate for disposal at the Kirtland AFB C&D Landfill. Approval for disposal of the soil at the Kirtland AFB C&D landfill was granted by Mr. Steven Kitt, the Solid Waste Program Manager, Kirtland AFB Civil Engineering, Assets, and Natural Resources Compliance Group on June 23, 2010. Transportation and disposal of these soil drill cuttings was completed on July 2, 2010.

The soil disposal requests and approval are provided in Attachment 4.

### 2.5.2 **Well Development Water**

Approximately 450 total gallons of groundwater were bailed or pumped from monitoring wells KAFB-10626 and KAFB-10627. The development water was placed in a 1,500 gallon storage tank that was staged on Kirtland AFB at the Bulk Fuels Facility. In July 2010 Kirtland AFB requested of NMED that if analytical data for purge water indicated that all positively detected compounds were of similar concentration to those that had been previously detected, and approved by the NMED, for surface disposal at the site, the water would be immediately disposed of upon receipt of analytical data. Based on review of the post-development sample data the development water was disposed of by discharging the water to the ground where it had been staged. The Kirtland AFB letter requesting approval of this disposal process and the NMED-GWQB approval of the process are included in Appendix D.

### 2.5.3 **Decontamination Water**

Decontamination of drilling equipment was performed within a designated area used for equipment staging during drilling activities east of Fuels Drive, north of the fuels facility fence line. Plastic liners were placed on the ground to prevent the decontamination water from infiltrating the soil. The drilling equipment was decontaminated after the drilling and construction of each well; the decontamination water was allowed to evaporate.

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# 3.0 SUMMARY AND CONCLUSIONS

Regional aquifer monitoring well KAFB-10626 was installed offsite north of Kirtland AFB. The purpose for installing this monitoring well was to further delineate the lateral extent of groundwater impacts resulting from migration of petroleum hydrocarbon compounds from the Bulk Fuels Facility. The installation of well KAFB-10626 supports the continuing investigation to delineate the nature and extent of dissolved-phase groundwater impacts that extend downgradient from the PSH body. The specific analytical results from well KAFB-10626 are discussed in Section 5 of the quarterly report. However, well KAFB-10626 had no detected PSH on the groundwater surface and no dissolved-phase contaminants were detected above regulatory standards. Additionally, the only dissolved phase fuel constituents detected at KAFB-10625 was EDB detected just below the EPA MCL.

Monitoring well KAFB-10627 was installed in an on base location, up-gradient of the Former Fuel Offloading Rack. Monitoring well KAFB-10628 was installed in an off base location, north of Kirtland AFB, in the known PSH plume.

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# REFERENCES

20.6.2.3103 New Mexico Administrative Code. New Mexico Water Quality Control Commission – Human Health Standards (NMWQCC-HHSs). September 26, 2004.

EPA, 2002. *Characteristics of Hazardous Waste* 40 CFR 261.24, July.

NMED-HWB, 2010. New Mexico Environment Department, Hazardous Waste Bureau (NMED-HWB). Letter from James P. Bearzi/NMED to Colonel Robert L. Maness/Kirtland AFB and John Pike/Kirtland AFB. "Reporting, Sampling, and Analysis Requirements, Solid Waste Management Units ST-106 and SS-111, Bulk Fuels Facility Spill." June 4.

OSE, 2005. *Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells*. New Mexico Office of the State Engineer. 19.27.4 New Mexico Administrative Code. August.

USAF, 2009. *Stage 2 Abatement Plan Modification Addendum (ST-106)*. U.S. Air Force, Kirtland Air Force Base, New Mexico. November.

USAF, 2007. *Stage 2 Abatement Plan Modification, Bulk Fuels Facility (ST-106)*. U.S. Air Force, Kirtland Air Force Base, New Mexico. August 1.

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# ATTACHMENT 1

## KAFB–10628 CORE SAMPLE PHYSICAL PROPERTY DATA

PTS File No: 40328
Client: CH2M Hill

# PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | | METHODS: | API RP 40 | Mod. ASTM D425 |
|---|---|---|---|---|
| SAMPLE ID. | DEPTH, ft. | SAMPLE ORIENTATION (1) | TOTAL POROSITY, %Vb | EFFECTIVE POROSITY, %Vb |
| 10628-SS13-491-492.3 | 491.3 | R | 34.9 | 25.0 |
| 10628-SS16-497-498.4 | 497.4 | H | 36.3 | 26.3 |

(1) Sample Orientation: H = horizontal; V = vertical; R = remold; Vb = Bulk Volume

PTS File No: 40328
Client: CH2M Hill

# PHYSICAL PROPERTIES DATA - PORE FLUID SATURATIONS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | | METHODS: | API RP 40 / ASTM D2216 | API RP 40 | | API RP 40 | | API RP 40 | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID. | DEPTH, ft. | SAMPLE ORIENTATION (1) | MOISTURE CONTENT, % weight | DENSITY BULK, g/cc | DENSITY GRAIN, g/cc | POROSITY, %Vb (2) TOTAL | POROSITY, %Vb (2) AIR FILLED | PORE FLUID SATURATIONS, % Pv (3) WATER | PORE FLUID SATURATIONS, % Pv (3) NAPL |
| 10628-SS16-497-498.4 | 497.25 | H | 14.8 | 1.61 | 2.63 | 38.7 | 14.8 | 58.1 | 3.7 |

(1) Sample Orientation: H = horizontal; V = vertical
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids
(3) Water = 0.9996 g/cc, Hydrocarbon = 0.8600 g/cc
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS File No: 40328
Client: CH2M Hill

**PTS** Laboratories

# FREE PRODUCT MOBILITY: INITIAL AND RESIDUAL SATURATIONS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | | METHODS: | API RP 40 | | API RP 40 | ASTM D425M, DEAN-STARK | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PORE FLUID SATURATIONS, % Pv | | | |
| | | SAMPLE | DENSITY | | TOTAL | Initial Fluid Saturations | | After Centrifuge at 1000xG | |
| SAMPLE ID. | DEPTH, ft. | ORIENTATION (1) | BULK, g/cc | GRAIN, g/cc | POROSITY, %Vb | WATER (Swi) SATURATION | NAPL (Soi) SATURATION | WATER (Srw) SATURATION | NAPL (Sor) SATURATION |
| 10628-SS13-491-492.3 | | | 1.71 | 2.62 | 34.9 | 21.0 | 2.4 | 14.5 | 2.4 |
| | **NOTE:** | **No visible NAPL produced. Produced water clear with no hydrocarbon odor.** | | | | | | | |
| 10628-SS16-497-498.4 | | | 1.68 | 2.63 | 36.3 | 67.2 | 3.5 | 19.9 | 3.5 |
| | **NOTE:** | **No visible NAPL produced. Produced water clear with no hydrocarbon odor.** | | | | | | | |

N/A = Not Analyzed. Vb = Bulk Volume, Pv = Pore Volume. (1) H = horizontal, V = vertical
Soi = Initial NAPL Saturation as received prior to centrifuging at 1000xG, Swi = Initial Water Saturation as received prior to centrifuging at 1000xG
Sor = Residual NAPL Saturation after centrifuging at 1000xG, Srw = Residual Water Saturation after centrifuging at 1000xG
Water =0.9996 g/cc, NAPL = 0.8600 g/cc.

PTS File No: 40328
Client: CH2M Hill

# SAMPLE PROPERTIES - AIR/WATER CAPILLARY PRESSURE

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | | METHODS: | API RP 40 / ASTM D2216 | API RP 40 | | API RP 40 | | API RP 40 |
|---|---|---|---|---|---|---|---|---|
| | | SAMPLE | MOISTURE | DENSITY | | POROSITY, %Vb (2) | | TOTAL PORE FLUID |
| SAMPLE ID. | DEPTH, ft. | ORIENTATION (1) | CONTENT, % weight | BULK, g/cc | GRAIN, g/cc | TOTAL | AIR FILLED | SATURATIONS (3), % Pv |
| 10628-SS13-491-492.3 | 491.2 | R | 5.8 | 1.68 | 2.61 | 35.5 | 25.8 | 27.3 |
| 10628-SS16-497-498.4 | 497.6 | V | 16.9 | 1.65 | 2.62 | 37.1 | 9.1 | 75.4 |

(1) Sample Orientation: H = horizontal; V = vertical
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids
(3) Water = 0.9996 g/cc
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS File No: 40328
Client: CH2M Hill

# PERMEABILITY DATA - AIR/WATER CAPILLARY PRESSURE

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | | METHODS: | API RP 40; EPA 9100 | | |
|---|---|---|---|---|---|
| | | | 25 PSI CONFINING STRESS | | |
| SAMPLE ID. | DEPTH, ft. | SAMPLE ORIENTATION (1) | SPECIFIC PERMEABILITY TO AIR, millidarcy (2) | NATIVE PERMEABILITY TO WATER, millidarcy (3) | HYDRAULIC CONDUCTIVITY, cm/s (3) |
| 10628-SS13-491-492.3 | 491.2 | R | 7385 | 1556 | 1.54E-03 |
| 10628-SS16-497-498.4 | 497.6 | V | 5292 | 1289 | 1.26E-03 |

(1) Sample Orientation: H = horizontal; V = vertical
(2) No pore fluids in place
(3) Permeability to water and hydraulic conductivity measured at saturated conditions

PTS File No: 40328
Client: CH2M Hill

# AIR/WATER CAPILLARY PRESSURE TABULAR DATA

(ASTM D6836; Centrifugal Method: air displacing water)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

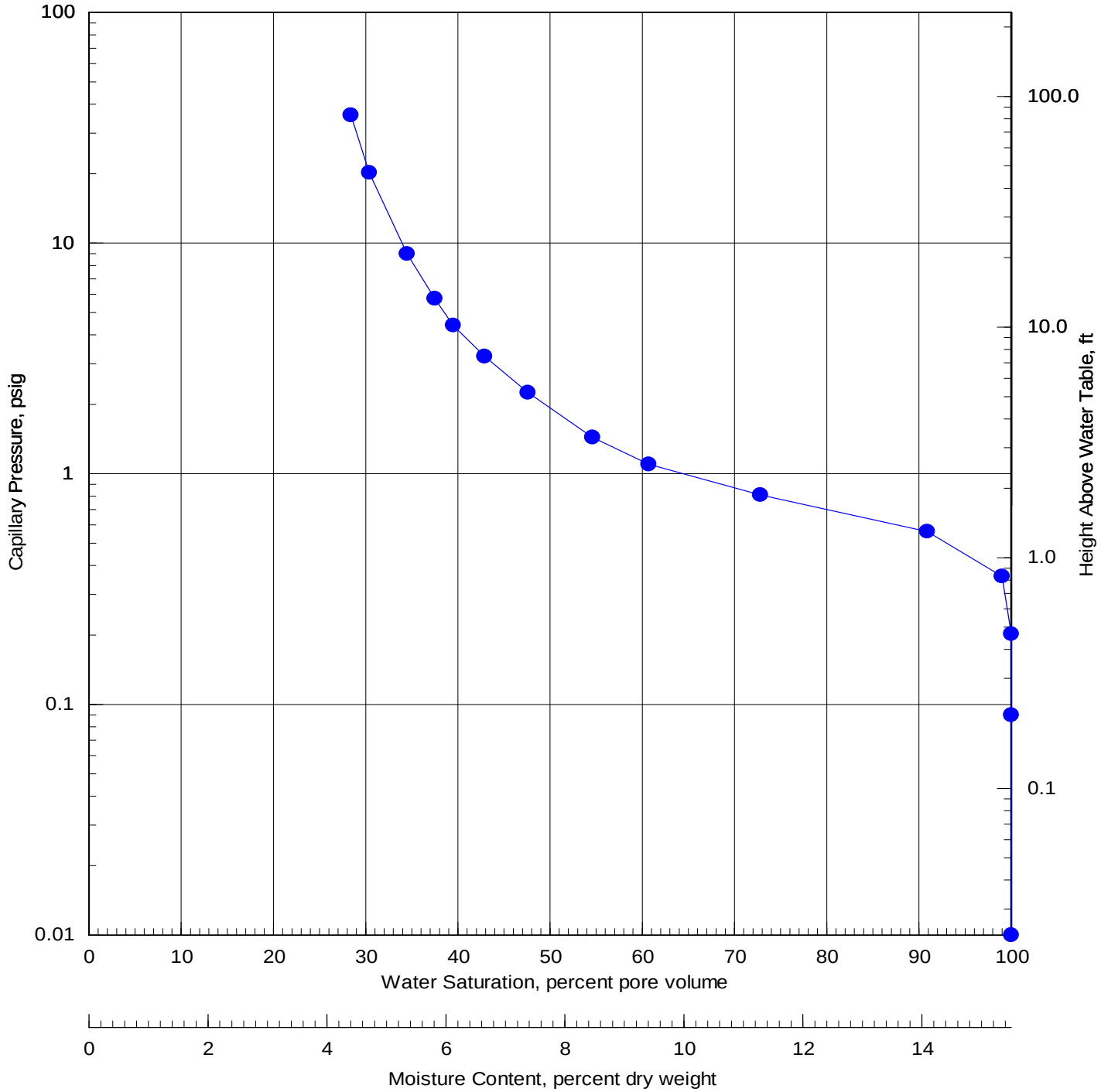
| Capillary Pressure | | Height Above Water Table, ft | Sample ID | |
|---|---|---|---|---|
| | | | **10628-SS13-491-492.3 at 491.2 ft.** | |
| psi | cm water | | Saturation, % pore volume | Moisture, % dry weight |
| 0.000 | 0.00 | 0.000 | 100.0 | 15.5 |
| 0.090 | 6.32 | 0.208 | 100.0 | 15.5 |
| 0.202 | 14.2 | 0.468 | 100.0 | 15.5 |
| 0.359 | 25.3 | 0.832 | 99.0 | 15.3 |
| 0.562 | 39.5 | 1.30 | 90.9 | 14.1 |
| 0.809 | 56.9 | 1.87 | 72.8 | 11.3 |
| 1.10 | 77.4 | 2.55 | 60.7 | 9.4 |
| 1.44 | 101 | 3.33 | 54.6 | 8.5 |
| 2.25 | 158 | 5.20 | 47.6 | 7.4 |
| 3.23 | 227 | 7.49 | 42.9 | 6.6 |
| 4.40 | 310 | 10.2 | 39.5 | 6.1 |
| 5.75 | 404 | 13.3 | 37.5 | 5.8 |
| 8.99 | 632 | 20.8 | 34.5 | 5.3 |
| 20.2 | 1421 | 46.8 | 30.4 | 4.7 |
| 35.9 | 2527 | 83.2 | 28.4 | 4.4 |

CH2M Hill
PTS File No.: 40328

# CAPILLARY PRESSURE
## Centrifugal Method
Air Displacing Water System - ASTM D6836

Project Name: Kirtland AFB
Project No: N/A

Sample ID: 10628-SS13-491-492.3
Depth, ft: 491.2



PTS File No: 40328
Client: CH2M Hill

# AIR/WATER CAPILLARY PRESSURE TABULAR DATA

(ASTM D6836; Centrifugal Method: air displacing water)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

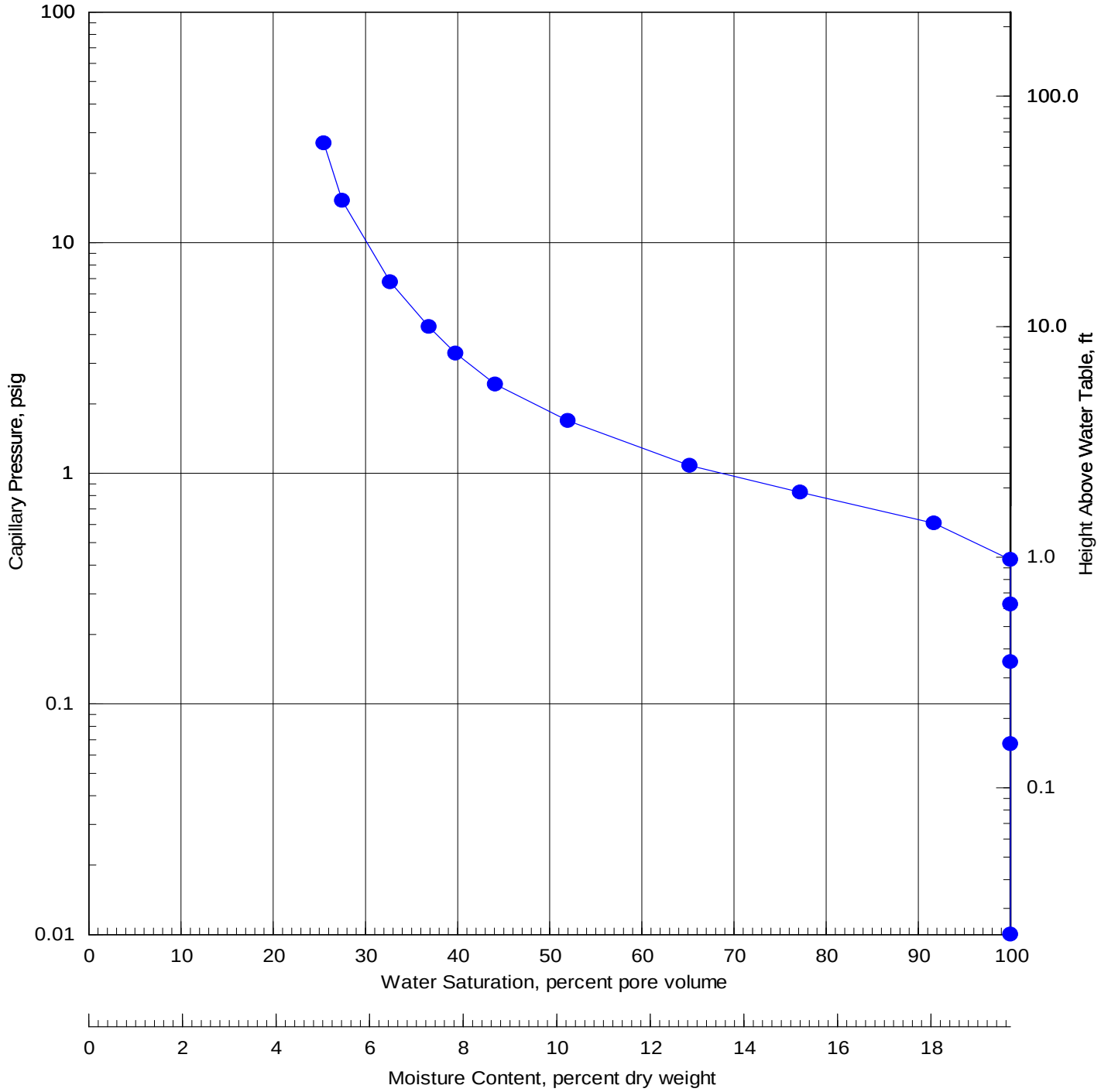
| Capillary Pressure | | Height Above Water Table, ft | Sample ID | |
|---|---|---|---|---|
| | | | **10628-SS16-497-498.4 at 497.6 ft.** | |
| psi | cm water | | Saturation, % pore volume | Moisture, % dry weight |
| 0.000 | 0.00 | 0.000 | 100.0 | 19.7 |
| 0.067 | 4.74 | 0.156 | 100.0 | 19.7 |
| 0.152 | 10.7 | 0.351 | 100.0 | 19.7 |
| 0.270 | 19.0 | 0.625 | 100.0 | 19.7 |
| 0.422 | 29.6 | 0.976 | 100.0 | 19.7 |
| 0.607 | 42.7 | 1.41 | 91.7 | 18.0 |
| 0.826 | 58.1 | 1.91 | 77.2 | 15.2 |
| 1.08 | 75.9 | 2.50 | 65.2 | 12.8 |
| 1.69 | 119 | 3.90 | 52.0 | 10.2 |
| 2.43 | 171 | 5.62 | 44.1 | 8.7 |
| 3.31 | 232 | 7.65 | 39.8 | 7.8 |
| 4.32 | 304 | 10.0 | 36.9 | 7.3 |
| 6.75 | 474 | 15.6 | 32.7 | 6.4 |
| 15.2 | 1067 | 35.1 | 27.5 | 5.4 |
| 27.0 | 1897 | 62.5 | 25.5 | 5.0 |

CH2M Hill
PTS File No.: 40328

# CAPILLARY PRESSURE
## Centrifugal Method
Air Displacing Water System - ASTM D6836

Project Name: Kirtland AFB
Project No: N/A

Sample ID: 10628-SS16-497-498.4
Depth, ft: 497.6



PTS File No: 40328
Client: CH2M Hill

## TABLE 1

## SOIL MOISTURE RETENTION CURVE FITTING FOR QUANTIFYING THE HYDRAULIC FUNCTIONS OF UNSATURATED SOILS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS13-491-492.3 at 491.2 ft.

| **van Genuchten Parameters** | |
|---|---|
| alpha (1/cm) | 2.500E-02 |
| n | 1.850 |
| residual water | 0.265 |
| total water | 1.020 |
| m | 0.459 |
| Water Perm (mD) | 1556 |
| Air Perm (mD) | 7385 |
| $R^2$ | 0.98311 |

**Notes:** alpha, n, and residual saturation are capillary parameters defined by the following equation (van Genuchten, 1980), with m = 1-1/n, S = water saturation, and h = capillary head (cm):

$$S_r + [(S_s - S_r)/(1+(\alpha h)^n)^m]$$

**Laboratory Measured Data**

| Capillary Head (cm) | **10628-SS13-491-492.3 at 491.2 ft** Volumetric Moisture | Predicted Moisture by Curve Fit | RPD (%) |
|---|---|---|---|
| 0.00 | 1.000 | 1.020 | 0.99% |
| 6.32 | 1.000 | 1.009 | 0.44% |
| 14.21 | 1.000 | 0.974 | 1.33% |
| 25.27 | 0.990 | 0.906 | 4.42% |
| 39.49 | 0.909 | 0.817 | 5.34% |
| 56.86 | 0.728 | 0.727 | 0.08% |
| 56.86 | 0.728 | 0.727 | 0.08% |
| 77.39 | 0.607 | 0.648 | 3.25% |
| 101.08 | 0.546 | 0.583 | 3.26% |
| 157.94 | 0.476 | 0.492 | 1.66% |
| 227.43 | 0.429 | 0.434 | 0.56% |
| 309.56 | 0.395 | 0.396 | 0.14% |
| 631.76 | 0.345 | 0.337 | 1.12% |
| 1421.47 | 0.304 | 0.301 | 0.52% |
| 2527.05 | 0.284 | 0.287 | 0.52% |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS13-491-492.3 at 491.2 ft.

**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 0.001 | 1.020 | 1.56E+03 | 4.16E-09 |
| 0.02 | 1.020 | 1.55E+03 | 1.08E-05 |
| 0.04 | 1.020 | 1.55E+03 | 6.68E-05 |
| 0.05 | 1.020 | 1.54E+03 | 1.20E-04 |
| 0.08 | 1.020 | 1.54E+03 | 4.12E-04 |
| 0.09 | 1.020 | 1.54E+03 | 5.61E-04 |
| 1 | 1.020 | 1.42E+03 | 3.12E-01 |
| 1.2 | 1.019 | 1.40E+03 | 5.02E-01 |
| 1.3 | 1.019 | 1.39E+03 | 6.20E-01 |
| 1.5 | 1.019 | 1.37E+03 | 9.02E-01 |
| 2 | 1.019 | 1.32E+03 | 1.91E+00 |
| 3 | 1.017 | 1.23E+03 | 5.52E+00 |
| 5 | 1.013 | 1.07E+03 | 2.08E+01 |
| 7 | 1.007 | 9.30E+02 | 4.91E+01 |
| 9 | 0.999 | 8.09E+02 | 9.22E+01 |
| 11 | 0.990 | 7.04E+02 | 1.51E+02 |
| 15 | 0.969 | 5.31E+02 | 3.14E+02 |
| 20 | 0.940 | 3.74E+02 | 5.92E+02 |
| 25 | 0.908 | 2.64E+02 | 9.28E+02 |
| 30 | 0.876 | 1.88E+02 | 1.30E+03 |
| 35 | 0.844 | 1.35E+02 | 1.67E+03 |
| 40 | 0.814 | 9.87E+01 | 2.04E+03 |
| 45 | 0.786 | 7.29E+01 | 2.39E+03 |
| 50 | 0.760 | 5.45E+01 | 2.72E+03 |
| 60 | 0.713 | 3.18E+01 | 3.30E+03 |
| 70 | 0.673 | 1.94E+01 | 3.79E+03 |
| 75 | 0.655 | 1.54E+01 | 4.00E+03 |
| 80 | 0.639 | 1.24E+01 | 4.19E+03 |
| 85 | 0.624 | 1.00E+01 | 4.36E+03 |
| 90 | 0.610 | 8.22E+00 | 4.52E+03 |
| 95 | 0.598 | 6.78E+00 | 4.67E+03 |
| 100 | 0.586 | 5.63E+00 | 4.80E+03 |
| 120 | 0.545 | 2.87E+00 | 5.23E+03 |
| 140 | 0.514 | 1.60E+00 | 5.54E+03 |
| 160 | 0.490 | 9.51E-01 | 5.78E+03 |
| 180 | 0.470 | 5.99E-01 | 5.97E+03 |
| 200 | 0.453 | 3.95E-01 | 6.12E+03 |
| 220 | 0.439 | 2.70E-01 | 6.24E+03 |
| 240 | 0.427 | 1.91E-01 | 6.33E+03 |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS13-491-492.3 at 491.2 ft.

**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 260 | 0.417 | 1.38E-01 | 6.42E+03 |
| 280 | 0.408 | 1.02E-01 | 6.49E+03 |
| 300 | 0.400 | 7.75E-02 | 6.55E+03 |
| 320 | 0.393 | 5.97E-02 | 6.60E+03 |
| 340 | 0.386 | 4.66E-02 | 6.65E+03 |
| 360 | 0.381 | 3.70E-02 | 6.69E+03 |
| 380 | 0.376 | 2.96E-02 | 6.73E+03 |
| 400 | 0.371 | 2.40E-02 | 6.76E+03 |
| 420 | 0.367 | 1.97E-02 | 6.79E+03 |
| 440 | 0.363 | 1.63E-02 | 6.82E+03 |
| 460 | 0.359 | 1.36E-02 | 6.84E+03 |
| 480 | 0.356 | 1.14E-02 | 6.86E+03 |
| 500 | 0.353 | 9.66E-03 | 6.88E+03 |
| 550 | 0.346 | 6.53E-03 | 6.93E+03 |
| 600 | 0.340 | 4.57E-03 | 6.96E+03 |
| 650 | 0.335 | 3.29E-03 | 7.00E+03 |
| 700 | 0.331 | 2.43E-03 | 7.02E+03 |
| 750 | 0.327 | 1.83E-03 | 7.05E+03 |
| 800 | 0.324 | 1.40E-03 | 7.07E+03 |
| 850 | 0.321 | 1.09E-03 | 7.08E+03 |
| 900 | 0.318 | 8.64E-04 | 7.10E+03 |
| 950 | 0.316 | 6.91E-04 | 7.11E+03 |
| 1000 | 0.314 | 5.60E-04 | 7.13E+03 |
| 1050 | 0.312 | 4.58E-04 | 7.14E+03 |
| 1100 | 0.310 | 3.78E-04 | 7.15E+03 |
| 1150 | 0.308 | 3.15E-04 | 7.16E+03 |
| 1200 | 0.307 | 2.64E-04 | 7.17E+03 |
| 1250 | 0.305 | 2.23E-04 | 7.17E+03 |
| 1300 | 0.304 | 1.90E-04 | 7.18E+03 |
| 1350 | 0.303 | 1.63E-04 | 7.19E+03 |
| 1400 | 0.302 | 1.40E-04 | 7.19E+03 |
| 1450 | 0.301 | 1.21E-04 | 7.20E+03 |
| 1500 | 0.300 | 1.05E-04 | 7.21E+03 |
| 1550 | 0.299 | 9.20E-05 | 7.21E+03 |
| 1600 | 0.298 | 8.07E-05 | 7.22E+03 |
| 1650 | 0.297 | 7.11E-05 | 7.22E+03 |
| 1700 | 0.296 | 6.29E-05 | 7.22E+03 |
| 1750 | 0.295 | 5.58E-05 | 7.23E+03 |
| 1800 | 0.295 | 4.97E-05 | 7.23E+03 |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS13-491-492.3 at 491.2 ft.

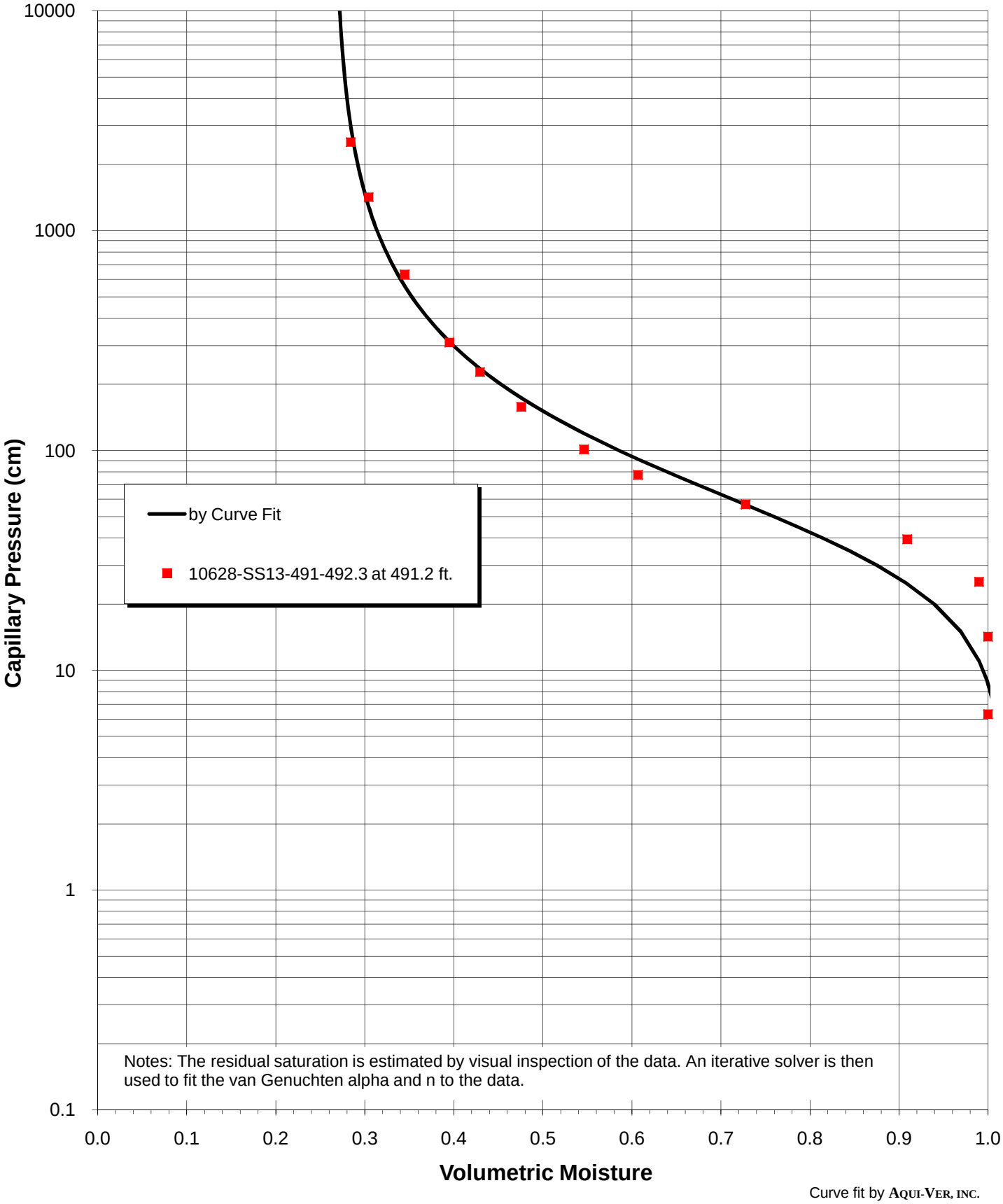
**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 1850 | 0.294 | 4.44E-05 | 7.24E+03 |
| 1900 | 0.293 | 3.98E-05 | 7.24E+03 |
| 1950 | 0.293 | 3.57E-05 | 7.24E+03 |
| 2000 | 0.292 | 3.22E-05 | 7.25E+03 |
| 2200 | 0.290 | 2.17E-05 | 7.26E+03 |
| 2400 | 0.288 | 1.52E-05 | 7.27E+03 |
| 2600 | 0.287 | 1.09E-05 | 7.28E+03 |
| 2800 | 0.285 | 8.04E-06 | 7.28E+03 |
| 3000 | 0.284 | 6.05E-06 | 7.29E+03 |
| 3200 | 0.283 | 4.63E-06 | 7.29E+03 |
| 3400 | 0.282 | 3.61E-06 | 7.30E+03 |
| 3600 | 0.281 | 2.85E-06 | 7.30E+03 |
| 3800 | 0.281 | 2.28E-06 | 7.31E+03 |
| 4000 | 0.280 | 1.85E-06 | 7.31E+03 |
| 4200 | 0.279 | 1.51E-06 | 7.31E+03 |
| 4400 | 0.279 | 1.25E-06 | 7.32E+03 |
| 4600 | 0.278 | 1.04E-06 | 7.32E+03 |
| 4800 | 0.278 | 8.70E-07 | 7.32E+03 |
| 5000 | 0.277 | 7.35E-07 | 7.32E+03 |
| 5200 | 0.277 | 6.26E-07 | 7.33E+03 |
| 5400 | 0.277 | 5.35E-07 | 7.33E+03 |
| 5600 | 0.276 | 4.61E-07 | 7.33E+03 |
| 5800 | 0.276 | 3.99E-07 | 7.33E+03 |
| 6000 | 0.276 | 3.47E-07 | 7.33E+03 |
| 6500 | 0.275 | 2.49E-07 | 7.34E+03 |
| 7000 | 0.274 | 1.84E-07 | 7.34E+03 |
| 7500 | 0.274 | 1.38E-07 | 7.34E+03 |
| 8000 | 0.273 | 1.06E-07 | 7.34E+03 |
| 8500 | 0.273 | 8.24E-08 | 7.35E+03 |
| 9000 | 0.273 | 6.51E-08 | 7.35E+03 |
| 9500 | 0.272 | 5.21E-08 | 7.35E+03 |
| 10000 | 0.272 | 4.22E-08 | 7.35E+03 |

**PTS** Laboratories

PTS File No: 40328
Client: CH2M Hill

## CAPILLARY CURVE FIT: 10628-SS13-491-492.3 at 491.2 ft.



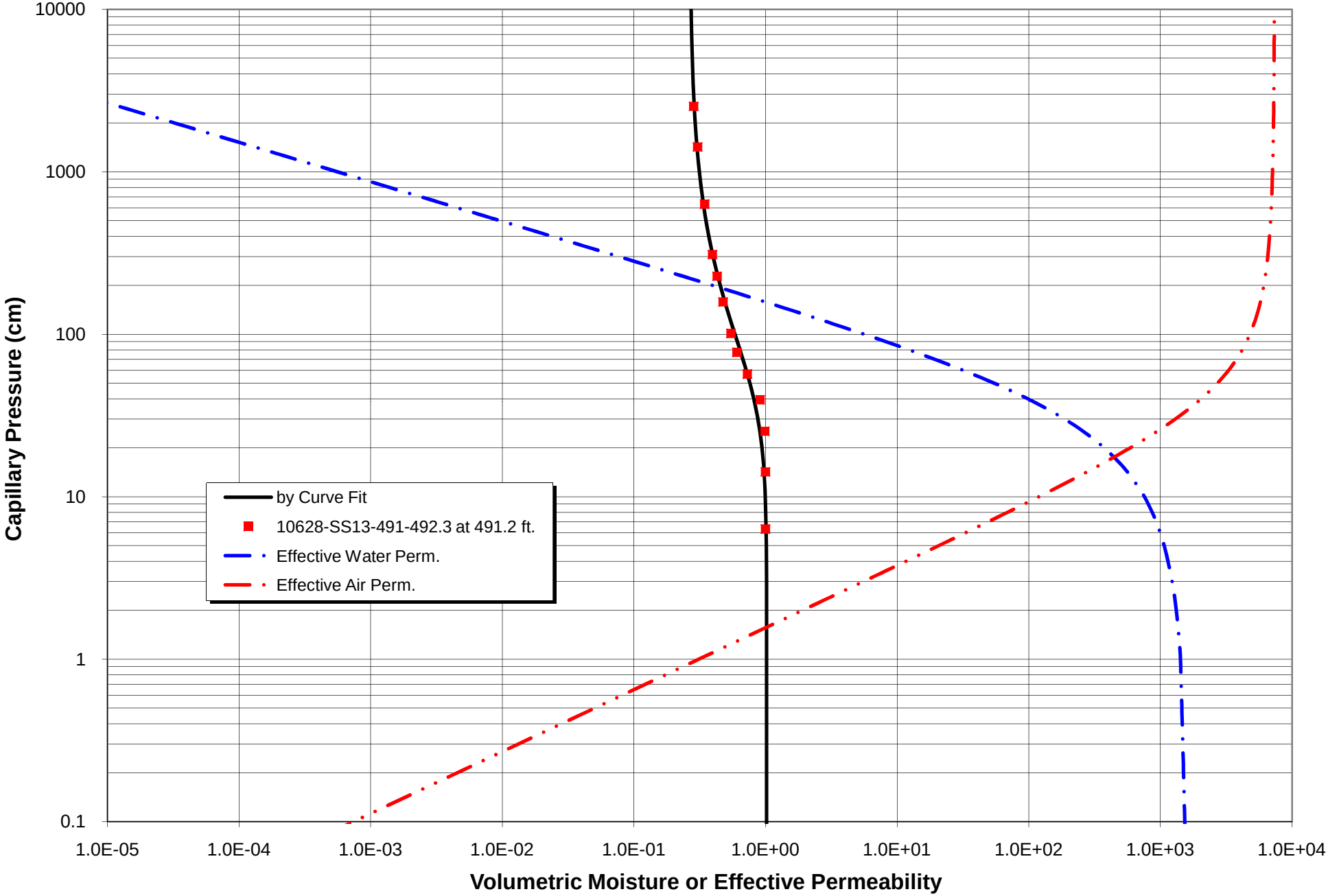

Notes: The residual saturation is estimated by visual inspection of the data. An iterative solver is then used to fit the van Genuchten alpha and n to the data.

Curve fit by AQUI-VER, INC.

PTS File No: 40328
Client: CH2M Hill

**PTS** Laboratories

## CAPILLARY CURVE FIT: 10628-SS13-491-492.3 at 491.2 ft.




Curve fit by AQUI-VER, INC.

PTS File No: 40328
Client: CH2M Hill

## TABLE 1

## SOIL MOISTURE RETENTION CURVE FITTING FOR QUANTIFYING THE HYDRAULIC FUNCTIONS OF UNSATURATED SOILS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS16-497-498.4 at 497.6 ft.

| **van Genuchten Parameters** | |
|---|---|
| alpha (1/cm) | 1.800E-02 |
| n | 2.000 |
| residual water | 0.230 |
| total water | 1.016 |
| m | 0.500 |
| Water Perm (mD) | 1289 |
| Air Perm (mD) | 5292 |
| $R^2$ | 0.98688 |

**Notes:** alpha, n, and residual saturation are capillary parameters defined by the following equation (van Genuchten, 1980), with m = 1-1/n, S = water saturation, and h = capillary head (cm):

$$S_r + [(S_s - S_r)/(1+(\alpha h)^n)^m]$$

**Laboratory Measured Data**

| Capillary Head (cm) | **10628-SS16-497-498.4 at 497.6 ft** Volumetric Moisture | Predicted Moisture by Curve Fit | RPD (%) |
|---|---|---|---|
| 0.00 | 1.000 | 1.016 | 0.80% |
| 4.74 | 1.000 | 1.013 | 0.66% |
| 10.67 | 1.000 | 1.002 | 0.10% |
| 18.97 | 1.000 | 0.974 | 1.32% |
| 29.65 | 1.000 | 0.924 | 3.97% |
| 42.69 | 0.917 | 0.853 | 3.61% |
| 58.11 | 0.772 | 0.773 | 0.07% |
| 75.89 | 0.652 | 0.694 | 3.13% |
| 118.59 | 0.520 | 0.564 | 4.05% |
| 118.59 | 0.520 | 0.564 | 4.05% |
| 170.76 | 0.441 | 0.473 | 3.52% |
| 303.58 | 0.369 | 0.372 | 0.40% |
| 474.34 | 0.327 | 0.321 | 0.87% |
| 1067.27 | 0.275 | 0.271 | 0.82% |
| 1897.36 | 0.255 | 0.253 | 0.32% |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS16-497-498.4 at 497.6 ft.

**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 0.001 | 1.016 | 1.29E+03 | 2.18E-11 |
| 0.02 | 1.016 | 1.29E+03 | 1.75E-07 |
| 0.04 | 1.016 | 1.29E+03 | 1.40E-06 |
| 0.05 | 1.016 | 1.29E+03 | 2.73E-06 |
| 0.08 | 1.016 | 1.29E+03 | 1.12E-05 |
| 0.09 | 1.016 | 1.28E+03 | 1.59E-05 |
| 1 | 1.016 | 1.24E+03 | 2.18E-02 |
| 1.2 | 1.016 | 1.23E+03 | 3.77E-02 |
| 1.3 | 1.016 | 1.23E+03 | 4.79E-02 |
| 1.5 | 1.016 | 1.22E+03 | 7.36E-02 |
| 2 | 1.016 | 1.20E+03 | 1.74E-01 |
| 3 | 1.015 | 1.15E+03 | 5.87E-01 |
| 5 | 1.013 | 1.07E+03 | 2.70E+00 |
| 7 | 1.010 | 9.83E+02 | 7.33E+00 |
| 9 | 1.006 | 9.04E+02 | 1.54E+01 |
| 11 | 1.001 | 8.29E+02 | 2.76E+01 |
| 15 | 0.989 | 6.92E+02 | 6.69E+01 |
| 20 | 0.970 | 5.47E+02 | 1.48E+02 |
| 25 | 0.947 | 4.28E+02 | 2.65E+02 |
| 30 | 0.922 | 3.33E+02 | 4.14E+02 |
| 35 | 0.895 | 2.59E+02 | 5.90E+02 |
| 40 | 0.868 | 2.01E+02 | 7.84E+02 |
| 45 | 0.841 | 1.56E+02 | 9.90E+02 |
| 50 | 0.814 | 1.22E+02 | 1.20E+03 |
| 60 | 0.764 | 7.53E+01 | 1.61E+03 |
| 70 | 0.719 | 4.77E+01 | 2.00E+03 |
| 75 | 0.698 | 3.84E+01 | 2.17E+03 |
| 80 | 0.678 | 3.11E+01 | 2.34E+03 |
| 85 | 0.660 | 2.53E+01 | 2.50E+03 |
| 90 | 0.643 | 2.08E+01 | 2.64E+03 |
| 95 | 0.627 | 1.71E+01 | 2.78E+03 |
| 100 | 0.612 | 1.42E+01 | 2.90E+03 |
| 120 | 0.560 | 7.15E+00 | 3.32E+03 |
| 140 | 0.520 | 3.89E+00 | 3.63E+03 |
| 160 | 0.488 | 2.26E+00 | 3.87E+03 |
| 180 | 0.462 | 1.38E+00 | 4.06E+03 |
| 200 | 0.440 | 8.88E-01 | 4.20E+03 |
| 220 | 0.422 | 5.91E-01 | 4.32E+03 |
| 240 | 0.407 | 4.06E-01 | 4.42E+03 |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS16-497-498.4 at 497.6 ft.

**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 260 | 0.394 | 2.87E-01 | 4.50E+03 |
| 280 | 0.383 | 2.08E-01 | 4.57E+03 |
| 300 | 0.373 | 1.54E-01 | 4.63E+03 |
| 320 | 0.364 | 1.16E-01 | 4.68E+03 |
| 340 | 0.357 | 8.87E-02 | 4.72E+03 |
| 360 | 0.350 | 6.89E-02 | 4.76E+03 |
| 380 | 0.344 | 5.42E-02 | 4.79E+03 |
| 400 | 0.338 | 4.32E-02 | 4.82E+03 |
| 420 | 0.333 | 3.48E-02 | 4.85E+03 |
| 440 | 0.328 | 2.83E-02 | 4.87E+03 |
| 460 | 0.324 | 2.32E-02 | 4.89E+03 |
| 480 | 0.320 | 1.92E-02 | 4.91E+03 |
| 500 | 0.317 | 1.60E-02 | 4.93E+03 |
| 550 | 0.309 | 1.05E-02 | 4.97E+03 |
| 600 | 0.302 | 7.10E-03 | 5.00E+03 |
| 650 | 0.297 | 4.96E-03 | 5.03E+03 |
| 700 | 0.292 | 3.56E-03 | 5.05E+03 |
| 750 | 0.288 | 2.62E-03 | 5.07E+03 |
| 800 | 0.284 | 1.96E-03 | 5.08E+03 |
| 850 | 0.281 | 1.49E-03 | 5.10E+03 |
| 900 | 0.278 | 1.15E-03 | 5.11E+03 |
| 950 | 0.276 | 9.06E-04 | 5.12E+03 |
| 1000 | 0.274 | 7.20E-04 | 5.13E+03 |
| 1050 | 0.272 | 5.78E-04 | 5.14E+03 |
| 1100 | 0.270 | 4.69E-04 | 5.14E+03 |
| 1150 | 0.268 | 3.84E-04 | 5.15E+03 |
| 1200 | 0.266 | 3.17E-04 | 5.16E+03 |
| 1250 | 0.265 | 2.64E-04 | 5.16E+03 |
| 1300 | 0.264 | 2.21E-04 | 5.17E+03 |
| 1350 | 0.262 | 1.87E-04 | 5.17E+03 |
| 1400 | 0.261 | 1.59E-04 | 5.18E+03 |
| 1450 | 0.260 | 1.36E-04 | 5.18E+03 |
| 1500 | 0.259 | 1.16E-04 | 5.19E+03 |
| 1550 | 0.258 | 1.00E-04 | 5.19E+03 |
| 1600 | 0.257 | 8.71E-05 | 5.19E+03 |
| 1650 | 0.256 | 7.58E-05 | 5.20E+03 |
| 1700 | 0.256 | 6.63E-05 | 5.20E+03 |
| 1750 | 0.255 | 5.82E-05 | 5.20E+03 |
| 1800 | 0.254 | 5.13E-05 | 5.21E+03 |

PTS File No: 40328
Client: CH2M Hill

## TABLE 2

## FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A
SAMPLE ID: 10628-SS16-497-498.4 at 497.6 ft.

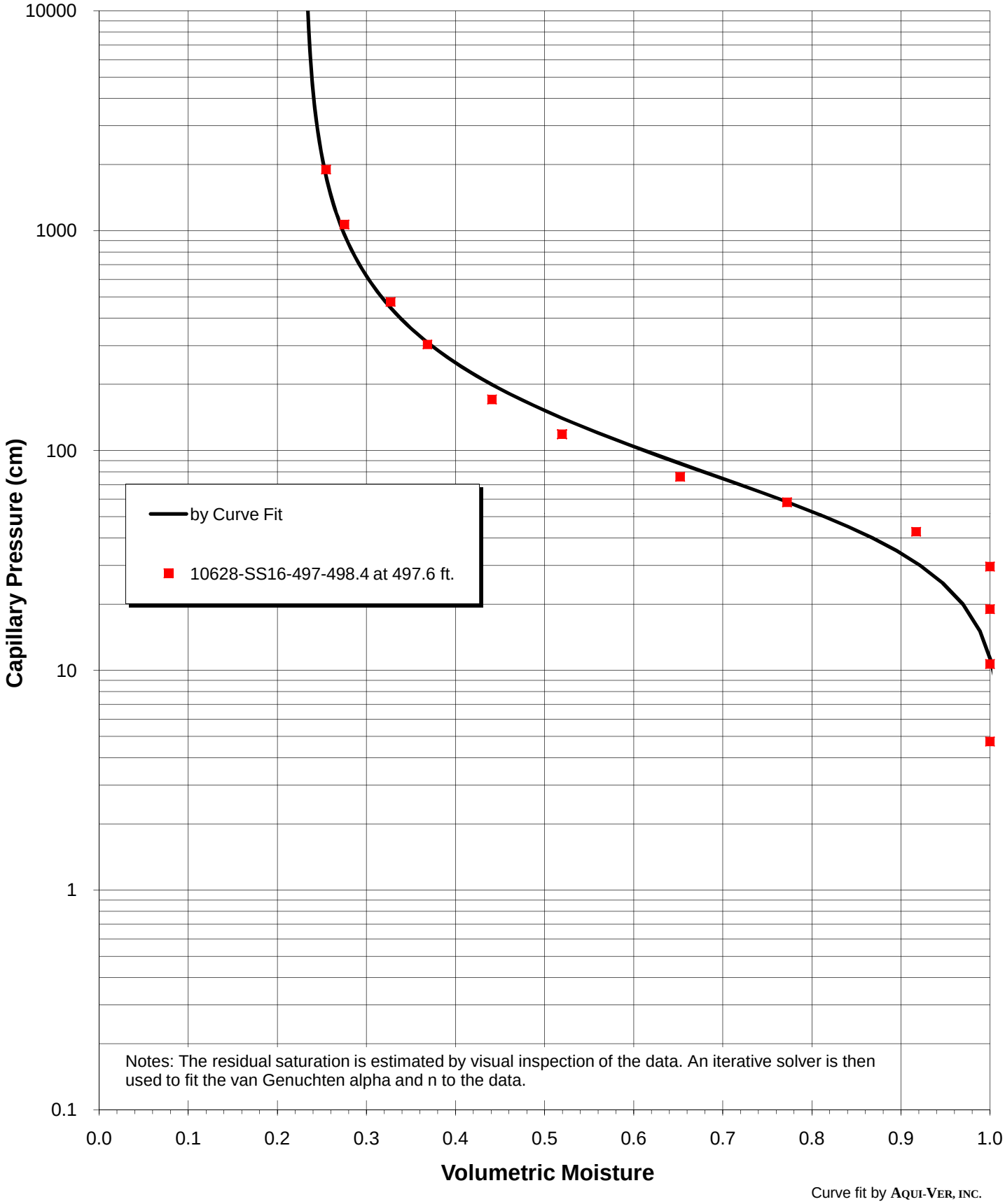
**FUNCTIONAL RELATIONSHIPS BASED ON DERIVED CAPILLARY PARAMETERS**

| Capillary Head (cm) | (van Genuchten, 1980) Volumetric Moisture | (Mualem, 1976) Effective Water Perm. | (Mualem, 1976) Effective Air Perm. |
|---|---|---|---|
| 1850 | 0.254 | 4.53E-05 | 5.21E+03 |
| 1900 | 0.253 | 4.02E-05 | 5.21E+03 |
| 1950 | 0.252 | 3.58E-05 | 5.21E+03 |
| 2000 | 0.252 | 3.19E-05 | 5.21E+03 |
| 2200 | 0.250 | 2.08E-05 | 5.22E+03 |
| 2400 | 0.248 | 1.41E-05 | 5.23E+03 |
| 2600 | 0.247 | 9.81E-06 | 5.23E+03 |
| 2800 | 0.246 | 7.03E-06 | 5.24E+03 |
| 3000 | 0.245 | 5.15E-06 | 5.24E+03 |
| 3200 | 0.244 | 3.86E-06 | 5.24E+03 |
| 3400 | 0.243 | 2.93E-06 | 5.25E+03 |
| 3600 | 0.242 | 2.27E-06 | 5.25E+03 |
| 3800 | 0.241 | 1.78E-06 | 5.25E+03 |
| 4000 | 0.241 | 1.41E-06 | 5.25E+03 |
| 4200 | 0.240 | 1.13E-06 | 5.26E+03 |
| 4400 | 0.240 | 9.20E-07 | 5.26E+03 |
| 4600 | 0.239 | 7.53E-07 | 5.26E+03 |
| 4800 | 0.239 | 6.22E-07 | 5.26E+03 |
| 5000 | 0.239 | 5.18E-07 | 5.26E+03 |
| 5200 | 0.238 | 4.34E-07 | 5.26E+03 |
| 5400 | 0.238 | 3.66E-07 | 5.26E+03 |
| 5600 | 0.238 | 3.11E-07 | 5.27E+03 |
| 5800 | 0.238 | 2.65E-07 | 5.27E+03 |
| 6000 | 0.237 | 2.28E-07 | 5.27E+03 |
| 6500 | 0.237 | 1.59E-07 | 5.27E+03 |
| 7000 | 0.236 | 1.14E-07 | 5.27E+03 |
| 7500 | 0.236 | 8.35E-08 | 5.27E+03 |
| 8000 | 0.235 | 6.24E-08 | 5.27E+03 |
| 8500 | 0.235 | 4.75E-08 | 5.27E+03 |
| 9000 | 0.235 | 3.68E-08 | 5.28E+03 |
| 9500 | 0.235 | 2.88E-08 | 5.28E+03 |
| 10000 | 0.234 | 2.29E-08 | 5.28E+03 |

**PTS** Laboratories

PTS File No: 40328
Client: CH2M Hill

## CAPILLARY CURVE FIT: 10628-SS16-497-498.4 at 497.6 ft.



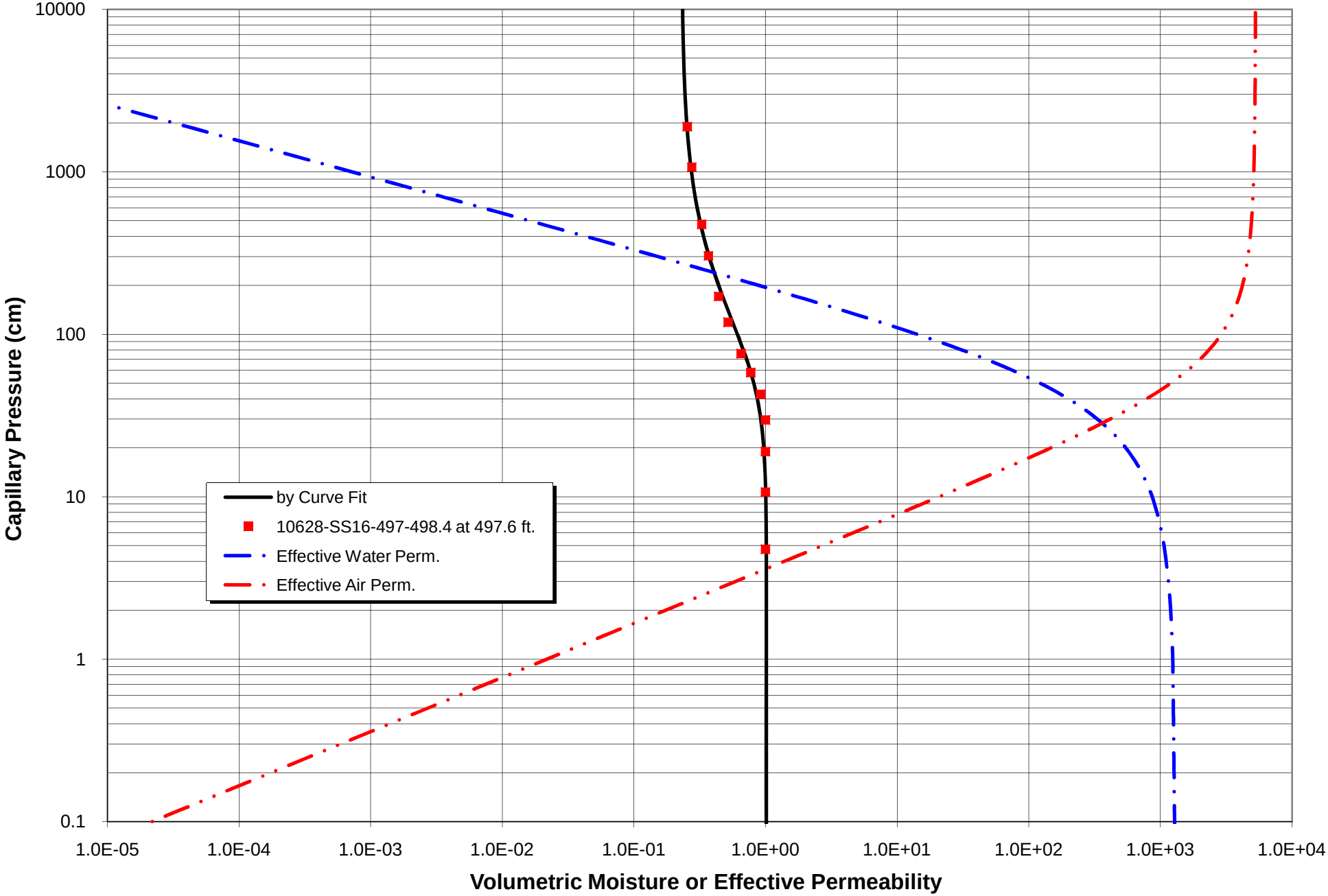

Notes: The residual saturation is estimated by visual inspection of the data. An iterative solver is then used to fit the van Genuchten alpha and n to the data.

Curve fit by AQUI-VER, INC.

PTS File No: 40328
Client: CH2M Hill

**PTS** Laboratories

## CAPILLARY CURVE FIT: 10628-SS16-497-498.4 at 497.6 ft.




Curve fit by AQUI-VER, INC.

PTS File No: 40328
Client: CH2M Hill

# Soil pH

(METHODOLOGY: EPA 9045)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| SAMPLE ID. | DEPTH, ft. | ANALYSIS DATE | ANALYSIS TIME | ROOM TEMP. °F | SAMPLE MATRIX | pH READING |
|---|---|---|---|---|---|---|
| 10628-SS13-491-492.3 | 491.4 | 6/30/10 | 1600 | 74 | SOIL | 7.38 |
| 10628-SS16-497-498.4 | 497.65 | 6/30/10 | 1600 | 74 | SOIL | 7.37 |

**QC DATA**

**Meter Model/Type:** Corning pH Meter 240

| **METER CALIBRATION** | Date/Time: 6/30/10 1600 |
|---|---|
| pH Buffer Standard 4.00 | 4.00 |
| pH Buffer Standard 7.00 | 7.00 |
| pH Buffer Standard 10.00 | 10.01 |

PTS File No: 40328
Client: CH2M Hill

# ORGANIC CARBON DATA - TOC (foc)

(METHODOLOGY: WALKLEY-BLACK)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| SAMPLE ID. | DEPTH, ft. | ANALYSIS DATE | ANALYSIS TIME | SAMPLE MATRIX | FRACTION ORGANIC CARBON, g/g | TOTAL ORGANIC CARBON, mg/kg |
|---|---|---|---|---|---|---|
| 10628-SS13-491-492.3 | 491.4 | 7/7/10 | 1300 | SOIL | 3.50E-04 | 350 |
| 10628-SS16-497-498.4 | 497.4 | 7/7/10 | 1300 | SOIL | 2.30E-04 | 230 |
| Blank | N/A | 7/7/10 | 1300 | BLANK | ND | ND |
| SRM D066-542 | N/A | 7/7/10 | 1300 | SOIL | 1.85E-03 | 1850 |

**QC DATA**

| SRM ID/Lot No. | REC (%) | Control Limits | Certified Value, mg/kg | QC Performance Acceptance Limits, mg/kg |
|---|---|---|---|---|
| D066-542 | 68 | 34-165 | 2720 | 935-4500 |

ND = Not Detected

PTS File No: 40328
Client: CH2M Hill

**PTS** Laboratories

## ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

(METHODOLOGY: ASTM D4318, D2487, USDA)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| | METHODS: | ASTM D 4318 | | | ASTM D 4318 | ASTM D 2487 | USDA |
|---|---|---|---|---|---|---|---|
| | | ATTERBERG LIMITS | | | USCS | USCS | USDA |
| SAMPLE ID. | DEPTH, ft. | LIQUID LIMIT | PLASTIC LIMIT | PLASTICITY INDEX | CLASSIFICATION (1) (Fines: <#40 Sieve) | CLASSIFICATION, Group Symbol: Name | SOIL TEXTURE SCHEME (2) |
| 10628-SS13-491-492.3 | 491.15 | 4.0 | N/A | NON-PLASTIC | ML | SW: Well-graded sand with gravel | Sand |
| 10628-SS16-497-498.4 | 497.35 | 9.6 | N/A | NON-PLASTIC | ML | SP-SM: Poorly graded sand with silt and gravel | Sand |

USCS: Unified Soil Classification System
USDA: US Department of Agriculture
SCS: Soil Conservation Service

(1)Silt assumed as fine fraction for NON-PLASTIC (NP) samples
(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME

**PTS** Laboratories, Inc.

CH2M Hill
PTS File No: 40328

## PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

PROJECT NAME: Kirtland AFB
PROJECT NO: N/A

| Sample ID | Depth, ft. | Description USCS/ASTM (1) | Median Grain Size, mm | Particle Size Distribution, wt. percent | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Gravel | Sand Size | | | Silt/Clay |
| | | | | | Coarse | Medium | Fine | |
| 10628-SS13-491-492.3 | 491.15 | Coarse sand | 5.797 | 59.34 | 10.09 | 19.69 | 9.97 | 0.92 |
| 10628-SS16-497-498.4 | 497.35 | Medium sand | 0.548 | 19.97 | 2.77 | 39.99 | 31.74 | 5.53 |

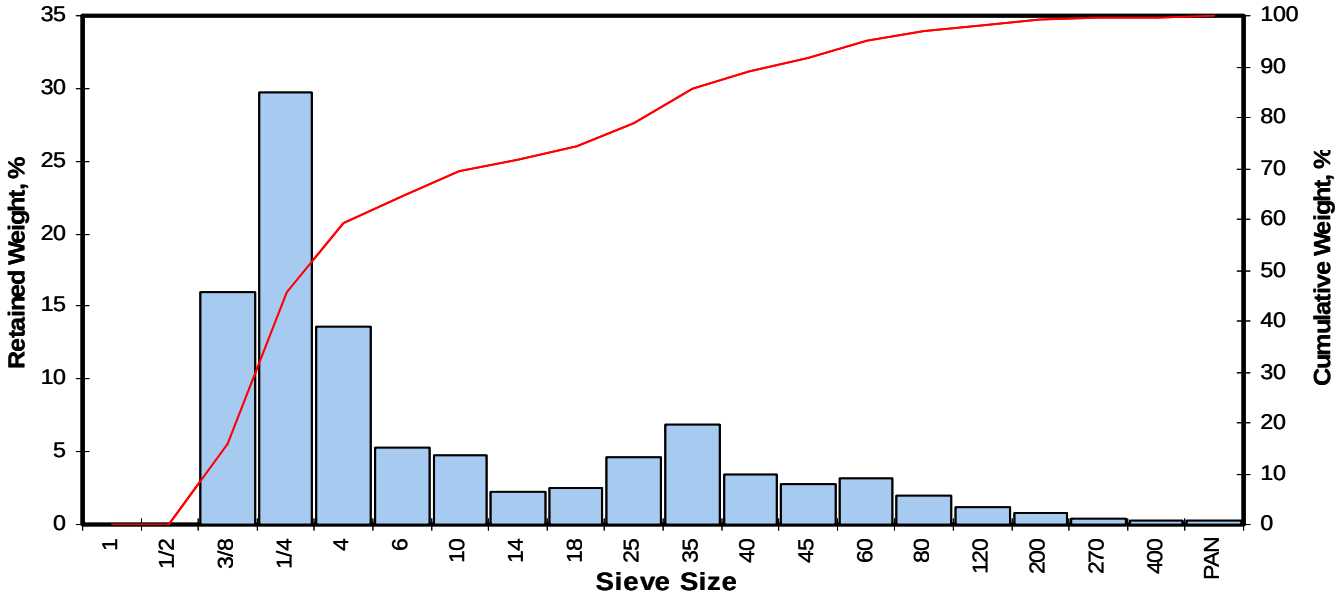
(1) based on Mean fromTrask

# PTS Laboratories, Inc.

**Particle Size Analysis - ASTM D422M**

| | | | |
|---|---|---|---|
| **Client:** | CH2M Hill | **PTS File No:** | 40328 |
| **Project:** | Kirtland AFB | **Sample ID:** | 10628-SS13-491-492.3 |
| **Project No:** | N/A | **Depth, ft:** | 491.15 |

| Gravel | Sand | | | Silt/Clay |
|---|---|---|---|---|
| | coarse | medium | fine | |




| Opening Inches | Opening Millimeters | Phi of Screen | U.S. Sieve No. | Sample Weight grams | Incremental Weight, percent | Cumulative Weight, percent |
|---|---|---|---|---|---|---|
| 0.9844 | 25.002 | -4.64 | 1 | 0.00 | 0.00 | 0.00 |
| 0.4922 | 12.501 | -3.64 | 1/2 | 0.00 | 0.00 | 0.00 |
| 0.3740 | 9.500 | -3.25 | 3/8 | 5.20 | 15.95 | 15.95 |
| 0.2500 | 6.351 | -2.67 | 1/4 | 9.70 | 29.75 | 45.69 |
| 0.1873 | 4.757 | -2.25 | 4 | 4.45 | 13.65 | 59.34 |
| 0.1324 | 3.364 | -1.75 | 6 | 1.72 | 5.27 | 64.61 |
| 0.0787 | 2.000 | -1.00 | 10 | 1.57 | 4.81 | 69.43 |
| 0.0557 | 1.414 | -0.50 | 14 | 0.72 | 2.21 | 71.63 |
| 0.0394 | 1.000 | 0.00 | 18 | 0.83 | 2.55 | 74.18 |
| 0.0278 | 0.707 | 0.50 | 25 | 1.52 | 4.66 | 78.84 |
| 0.0197 | 0.500 | 1.00 | 35 | 2.24 | 6.87 | 85.71 |
| 0.0166 | 0.420 | 1.25 | 40 | 1.11 | 3.40 | 89.11 |
| 0.0139 | 0.354 | 1.50 | 45 | 0.90 | 2.76 | 91.87 |
| 0.0098 | 0.250 | 2.00 | 60 | 1.03 | 3.16 | 95.03 |
| 0.0070 | 0.177 | 2.50 | 80 | 0.65 | 1.99 | 97.03 |
| 0.0049 | 0.125 | 3.00 | 120 | 0.40 | 1.23 | 98.25 |
| 0.0029 | 0.074 | 3.75 | 200 | 0.27 | 0.83 | 99.08 |
| 0.0021 | 0.053 | 4.25 | 270 | 0.13 | 0.40 | 99.48 |
| 0.0015 | 0.037 | 4.75 | 400 | 0.08 | 0.25 | 99.72 |
| | | | PAN | 0.09 | 0.28 | 100.00 |
| **TOTALS** | | | | 32.61 | 100.00 | 100.00 |

| Cumulative Weight Percent greater than | | | |
|---|---|---|---|
| Weight percent | Phi Value | Particle Size Inches | Particle Size Millimeters |
| 5 | -3.52 | 0.4516 | 11.470 |
| 10 | -3.40 | 0.4143 | 10.524 |
| 16 | -3.25 | 0.3738 | 9.494 |
| 25 | -3.07 | 0.3309 | 8.404 |
| 40 | -2.78 | 0.2701 | 6.860 |
| 50 | -2.54 | 0.2282 | 5.797 |
| 60 | -2.19 | 0.1793 | 4.554 |
| 75 | 0.09 | 0.0370 | 0.941 |
| 84 | 0.88 | 0.0215 | 0.545 |
| 90 | 1.33 | 0.0157 | 0.398 |
| 95 | 1.99 | 0.0099 | 0.251 |

| Measure | Trask | Inman | Folk-Ward |
|---|---|---|---|
| Median, phi | -2.54 | -2.54 | -2.54 |
| Median, in. | 0.2282 | 0.2282 | 0.2282 |
| Median, mm | 5.797 | 5.797 | 5.797 |
| Mean, phi | -2.22 | -1.19 | -1.64 |
| Mean, in. | 0.1840 | 0.0896 | 0.1223 |
| Mean, mm | 4.673 | 2.275 | 3.107 |
| Sorting | 2.989 | 2.061 | 1.866 |
| Skewness | 0.485 | 0.655 | 0.649 |
| Kurtosis | 0.369 | 0.338 | 0.715 |
| **Grain Size Description** (ASTM-USCS Scale) | | Coarse sand (based on Mean from Trask) | |

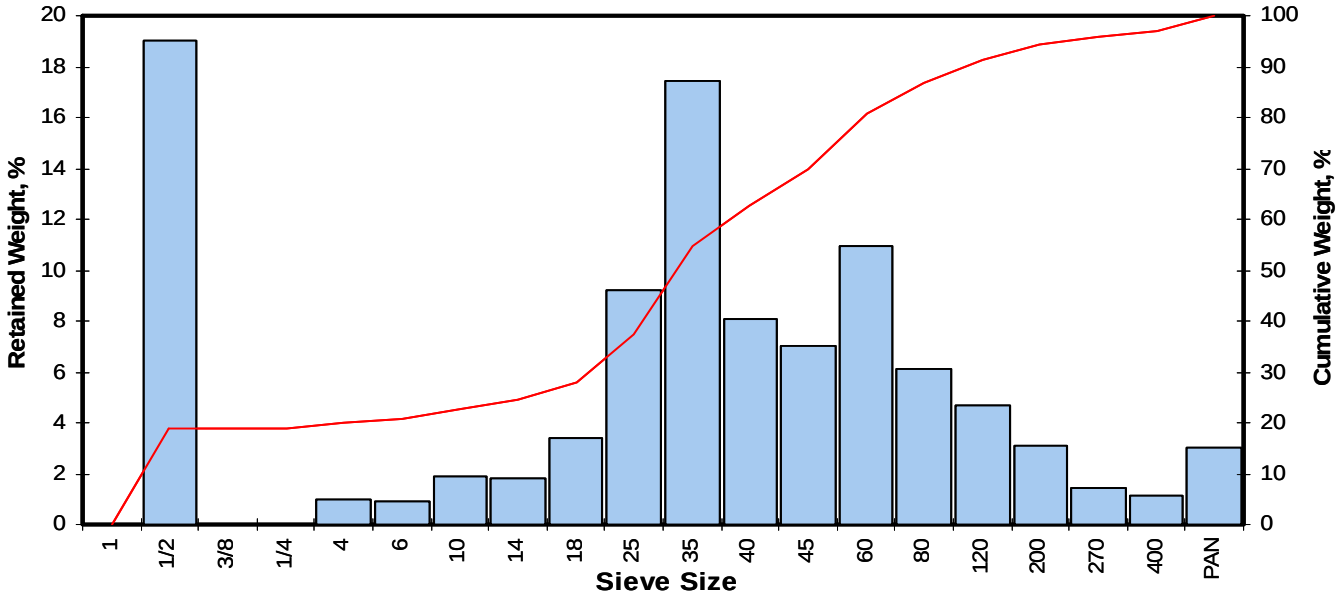
| Description | Retained on Sieve # | Weight Percent |
|---|---|---|
| Gravel | 4 | 59.34 |
| Coarse Sand | 10 | 10.09 |
| Medium Sand | 40 | 19.69 |
| Fine Sand | 200 | 9.97 |
| Silt/Clay | <200 | 0.92 |
| | Total | 100 |

# PTS Laboratories, Inc.

**Particle Size Analysis - ASTM D422M**

| | | | |
|---|---|---|---|
| **Client:** | CH2M Hill | **PTS File No:** | 40328 |
| **Project:** | Kirtland AFB | **Sample ID:** | 10628-SS16-497-498.4 |
| **Project No:** | N/A | **Depth, ft:** | 497.35 |

| Gravel | Sand | | | Silt/Clay |
|---|---|---|---|---|
| | coarse | medium | fine | |




| Opening Inches | Opening Millimeters | Phi of Screen | U.S. Sieve No. | Sample Weight grams | Incremental Weight, percent | Cumulative Weight, percent |
|---|---|---|---|---|---|---|
| 0.9844 | 25.002 | -4.64 | 1 | 0.00 | 0.00 | 0.00 |
| 0.4922 | 12.501 | -3.64 | 1/2 | 3.50 | 18.99 | 18.99 |
| 0.3740 | 9.500 | -3.25 | 3/8 | 0.00 | 0.00 | 18.99 |
| 0.2500 | 6.351 | -2.67 | 1/4 | 0.00 | 0.00 | 18.99 |
| 0.1873 | 4.757 | -2.25 | 4 | 0.18 | 0.98 | 19.97 |
| 0.1324 | 3.364 | -1.75 | 6 | 0.16 | 0.87 | 20.84 |
| 0.0787 | 2.000 | -1.00 | 10 | 0.35 | 1.90 | 22.73 |
| 0.0557 | 1.414 | -0.50 | 14 | 0.34 | 1.84 | 24.58 |
| 0.0394 | 1.000 | 0.00 | 18 | 0.63 | 3.42 | 28.00 |
| 0.0278 | 0.707 | 0.50 | 25 | 1.70 | 9.22 | 37.22 |
| 0.0197 | 0.500 | 1.00 | 35 | 3.21 | 17.42 | 54.64 |
| 0.0166 | 0.420 | 1.25 | 40 | 1.49 | 8.08 | 62.72 |
| 0.0139 | 0.354 | 1.50 | 45 | 1.29 | 7.00 | 69.72 |
| 0.0098 | 0.250 | 2.00 | 60 | 2.01 | 10.91 | 80.63 |
| 0.0070 | 0.177 | 2.50 | 80 | 1.12 | 6.08 | 86.71 |
| 0.0049 | 0.125 | 3.00 | 120 | 0.86 | 4.67 | 91.37 |
| 0.0029 | 0.074 | 3.75 | 200 | 0.57 | 3.09 | 94.47 |
| 0.0021 | 0.053 | 4.25 | 270 | 0.26 | 1.41 | 95.88 |
| 0.0015 | 0.037 | 4.75 | 400 | 0.21 | 1.14 | 97.02 |
| | | | PAN | 0.55 | 2.98 | 100.00 |
| **TOTALS** | | | | 18.43 | 100.00 | 100.00 |

| Cumulative Weight Percent greater than | | | |
|---|---|---|---|
| Weight percent | Phi Value | Particle Size Inches | Particle Size Millimeters |
| 5 | -4.12 | 0.6862 | 17.430 |
| 10 | -3.60 | 0.4784 | 12.151 |
| 16 | -2.98 | 0.3103 | 7.881 |
| 25 | -0.44 | 0.0534 | 1.355 |
| 40 | 0.58 | 0.0263 | 0.669 |
| 50 | 0.87 | 0.0216 | 0.548 |
| 60 | 1.17 | 0.0175 | 0.446 |
| 75 | 1.74 | 0.0118 | 0.299 |
| 84 | 2.28 | 0.0081 | 0.206 |
| 90 | 2.85 | 0.0054 | 0.138 |
| 95 | 3.94 | 0.0026 | 0.065 |

| Measure | Trask | Inman | Folk-Ward |
|---|---|---|---|
| Median, phi | 0.87 | 0.87 | 0.87 |
| Median, in. | 0.0216 | 0.0216 | 0.0216 |
| Median, mm | 0.548 | 0.548 | 0.548 |
| Mean, phi | 0.27 | -0.35 | 0.06 |
| Mean, in. | 0.0326 | 0.0502 | 0.0379 |
| Mean, mm | 0.827 | 1.275 | 0.962 |
| Sorting | 2.129 | 2.628 | 2.536 |
| Skewness | 1.161 | -0.463 | -0.351 |
| Kurtosis | 0.044 | 0.534 | 1.516 |
| **Grain Size Description** (ASTM-USCS Scale) | | Medium sand (based on Mean from Trask) | |

| Description | Retained on Sieve # | Weight Percent |
|---|---|---|
| Gravel | 4 | 19.97 |
| Coarse Sand | 10 | 2.77 |
| Medium Sand | 40 | 39.99 |
| Fine Sand | 200 | 31.74 |
| Silt/Clay | <200 | 5.53 |
| | Total | 100 |

**Am Test Inc.**
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

***Professional Analytical Services***

# ANALYSIS REPORT

PTS Labs
8100 Secura Way
Santa Fe Springs, CA 90670
Attention: Rachel Spitz
Project Name: Kirtland AFB
Project #: N/A
PO Number: 10-224
All results reported on an as received basis.

Date Received: 07/07/10
Date Reported: 7/14/10

---

**AMTEST Identification Number** **10-A010153**
**Client Identification** **10628-5513-491-492.3**
**Sampling Date** **06/29/10, 16:00**

## Miscellaneous

| PARAMETER | RESULT | UNITS | Q | D.L. | METHOD | ANLST | DATE |
|---|---|---|---|---|---|---|---|
| Cation Exchange Capacity | 3.2 | meq/100g | | 0.5 | SW-846 9081 | HL | 07/09/10 |

---

**AMTEST Identification Number** **10-A010154**
**Client Identification** **10628-5516-497-498.4**
**Sampling Date** **06/29/10, 16:00**

## Miscellaneous

| PARAMETER | RESULT | UNITS | Q | D.L. | METHOD | ANLST | DATE |
|---|---|---|---|---|---|---|---|
| Cation Exchange Capacity | 8.1 | meq/100g | | 0.5 | SW-846 9081 | HL | 07/09/10 |

Kathy Fugiel
President

**PTS Laboratories, Inc.**

# CHAIN OF CUSTODY RECORD



COMPANY: CH2M Hill

ADDRESS: 4041 Jefferson Plaza, Albuquerque — CITY — ZIP CODE: 87109

PROJECT MANAGER: Sharon Minchak

PROJECT NAME: Kirtland AFB — PHONE NUMBER

PROJECT NUMBER — FAX NUMBER

SITE LOCATION: ST06

SAMPLER SIGNATURE: Wayne Conway

PO#

TURNAROUND TIME: 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ NORMAL ☑

OTHER:

SAMPLE INTEGRITY (CHECK): INTACT ✓ ON ICE ✓

PTS QUOTE NO.

PTS FILE: 40328

ANALYSIS REQUEST

| SAMPLE ID NUMBER | DATE | TIME | DEPTH, FT | NUMBER OF SAMPLES | SOIL PROPERTIES PACKAGE | HYDRAULIC CONDUCTIVITY PACKAGE | PORE FLUID SATURATIONS PACKAGE | TCEQ/TNRCC PROPERTIES PACKAGE | CAPILLARITY PACKAGE | FLUID PROPERTIES PACKAGE | PHOTOLOG: CORE PHOTOGRAPHY | MOISTURE CONTENT, ASTM D2216 | POROSITY: TOTAL, API RP40 | POROSITY: EFFECTIVE, ASTM D425M | SPECIFIC GRAVITY, ASTM D854 | BULK DENSITY (DRY), API RP40 or ASTM D2937 | AIR PERMEABILITY, API RP40 | HYDRAULIC CONDUCTIVITY, EPA9100, API RP40, D5084 | GRAIN SIZE DISTRIBUTION, ASTM D422/4464M | TOC: WALKLEY-BLACK | ATTERBERG LIMITS, ASTM D4318 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓10628-SS1-468-469.5 | 5/11/10 | 1425 | 468-469.5 | 1 | | | | | | | X | | | | | | | | | | | Additional testing after Photo Log |
| ✓10628-SS2-470-471.5 | 5-11-10 | 1701 | 470-471.5 | 1 | | | | | | | X | | | | | | | | | | | NO SS-3 sample |
| ✓10628-SS4-473-474.5 | 5-12-10 | 0833 | 473-474.5 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS5-475-476.3 | 5-12-10 | 0852 | 475-476.3 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS6-477-478.5 | 5-12-10 | 0901 | 477-478.5 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS7-479-480.4 | 5-12-10 | 0955 | 479-480.4 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS8-481-482.5 | 5-12-10 | 1023 | 481-482.5 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS9-483-484.5 | 5-12-10 | 1023 | 483-484.5 | 1 | | | | | | | X | | | | | | | | | | | |
| ✓10628-SS10-485-486.5 | 5-12-10 | 1037 | 485-486.5 | 1 | | | | | | | X | | | | | | | | | | | NO SS-11 sample |
| ✓10629-SS-12-489-490.4 | 5-12-10 | 1145 | 489-490.4 | 1 | | | | | | | X | | | | | | | | | | | NO SS-14 sample |
| ✓10629-SS13-491-492.3 | 5-12-10 | 1245 | 491-492.3 | 1 | | | | | | | X | | | | | | | | | | | NO SS-15 sample |

| 1. RELINQUISHED BY | 2. RECEIVED BY | 3. RELINQUISHED BY | 4. RECEIVED BY |
|---|---|---|---|
| Wayne Conway | [signature] | | |
| COMPANY: CH2M Hill | COMPANY: PTS | COMPANY | COMPANY |
| DATE: 5-12-10 TIME: 1700 | DATE: 5-14-10 TIME: 11:05 | DATE TIME | DATE TIME |

**PTS** Laboratories, Inc.

# CHAIN OF CUSTODY RECORD



COMPANY: CH2M Hill

ADDRESS | CITY | ZIP CODE

PROJECT MANAGER

PROJECT NAME: KIRTLIN AFB | PHONE NUMBER

PROJECT NUMBER | FAX NUMBER

SITE LOCATION

SAMPLER SIGNATURE

PO#

TURNAROUND TIME
24 HOURS ☐ 5 DAYS ☐
48 HOURS ☐ NORMAL ☐
72 HOURS ☐
OTHER: _____

SAMPLE INTEGRITY (CHECK):
INTACT ✓ ON ICE ✓

PTS QUOTE NO.

PTS FILE: 40328

ANALYSIS REQUEST

| SAMPLE ID NUMBER | DATE | TIME | DEPTH, FT | NUMBER OF SAMPLES | SOIL PROPERTIES PACKAGE | HYDRAULIC CONDUCTIVITY PACKAGE | PORE FLUID SATURATIONS PACKAGE | TCEQ/TNRCC PROPERTIES PACKAGE | CAPILLARITY PACKAGE | FLUID PROPERTIES PACKAGE | PHOTOLOG: CORE PHOTOGRAPHY | MOISTURE CONTENT, ASTM D2216 | POROSITY: TOTAL, API RP40 | POROSITY: EFFECTIVE, ASTM D425M | SPECIFIC GRAVITY, ASTM D854 | BULK DENSITY (DRY), API RP40 or ASTM D2937 | AIR PERMEABILITY, API RP40 | HYDRAULIC CONDUCTIVITY, EPA9100, API RP40, D5084 | GRAIN SIZE DISTRIBUTION, ASTM D422/4464M | TOC: WALKLEY-BLACK | ATTERBERG LIMITS, ASTM D4318 | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ 10627-5516-497.4-498.4 | 5-12-10 | 1347 | 497.4-498.4 | 1 | | | | | | | X | | | | | | | | | | | | | | Additional testing of all core samples will be evaluated following review of photo log |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
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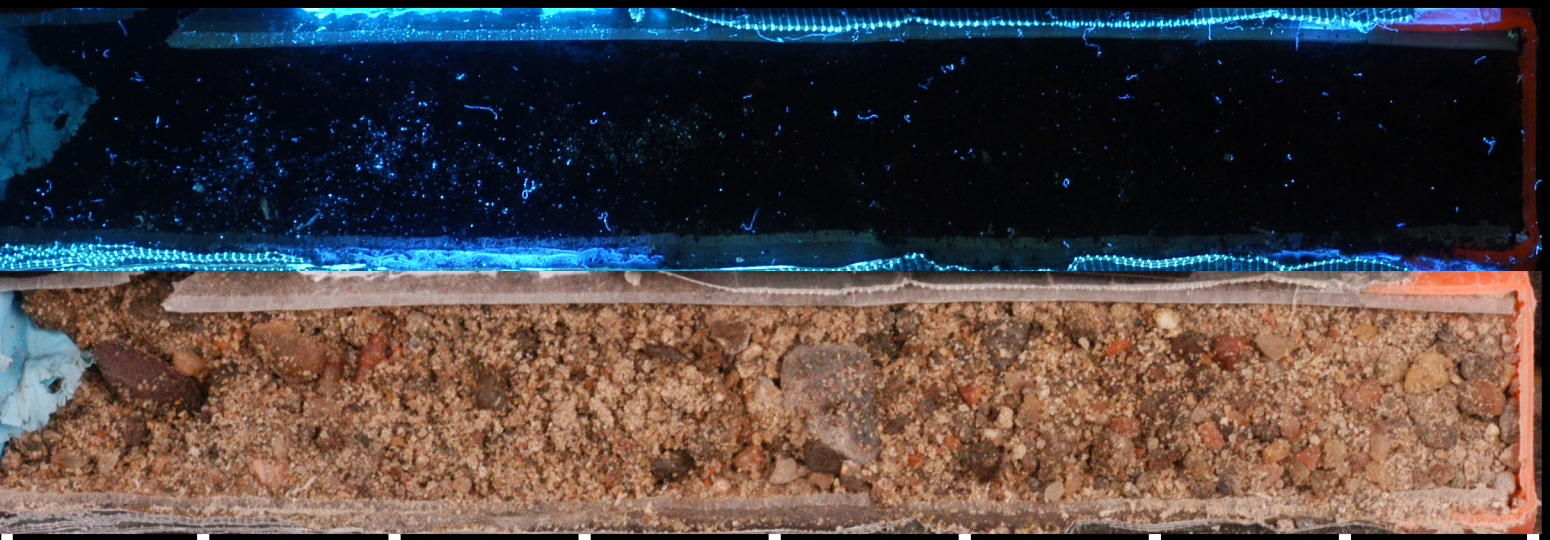
| 1. RELINQUISHED BY | 2. RECEIVED BY | 3. RELINQUISHED BY | 4. RECEIVED BY |
|---|---|---|---|
| COMPANY | COMPANY: PTS LABS INC | COMPANY | COMPANY |
| DATE / TIME | DATE: 5-14-10 / TIME: 11:05 | DATE / TIME | DATE / TIME |

PTS Laboratories
PTS File No.: 40328



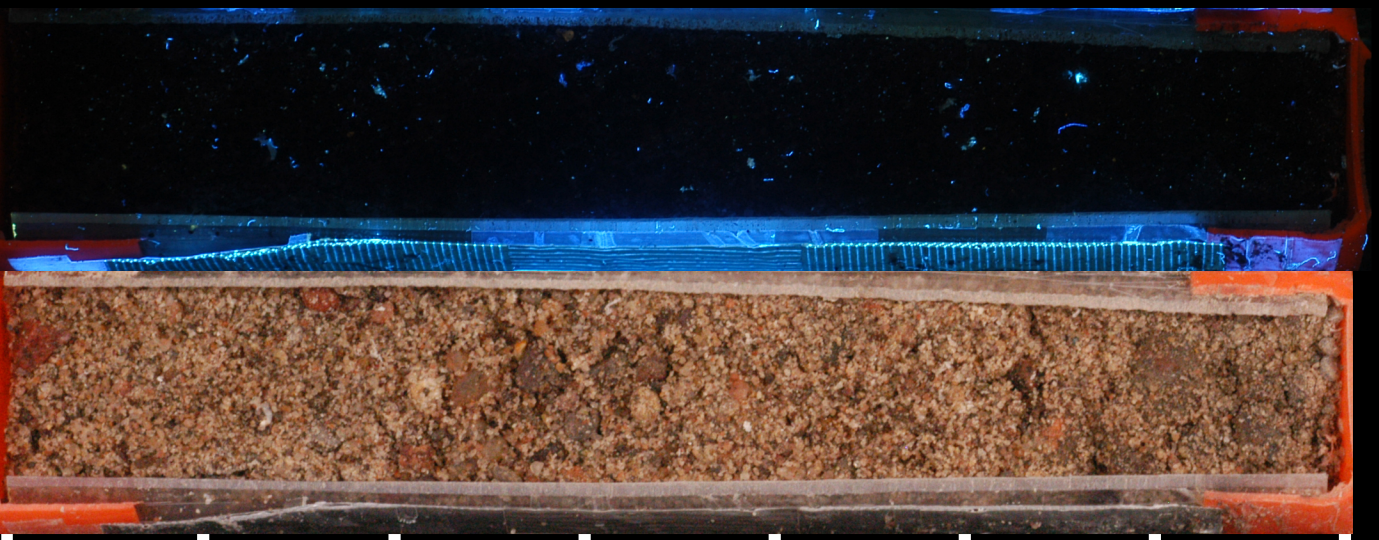
468.0

Each Interval Equals One Tenth of a Foot

469.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



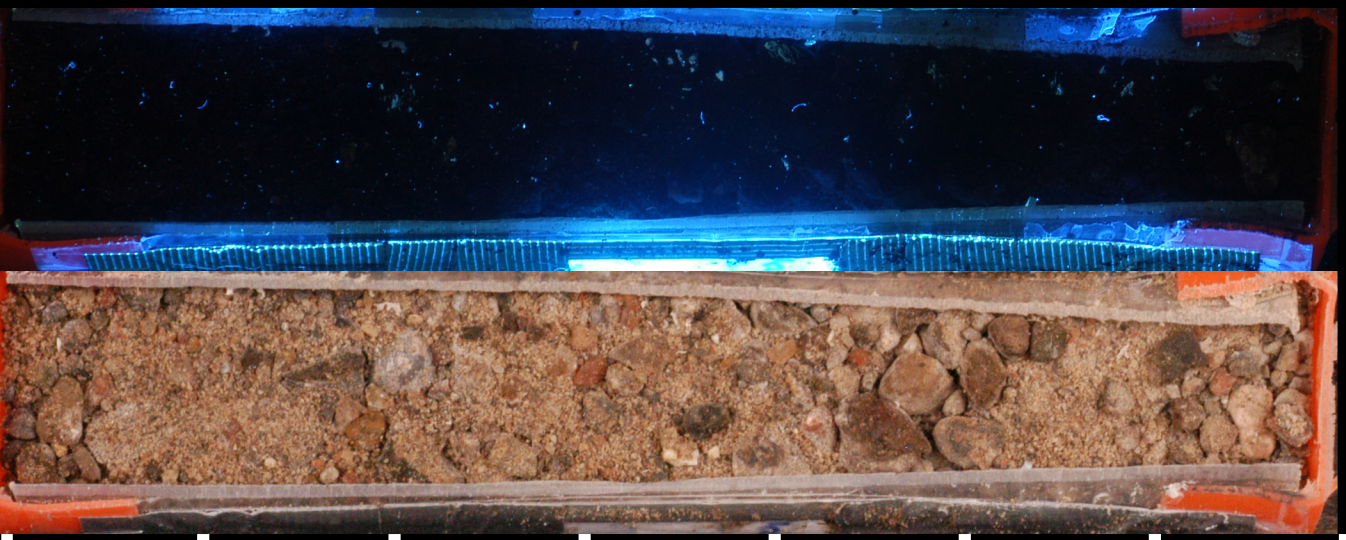
470.0

Each Interval Equals One Tenth of a Foot

471.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



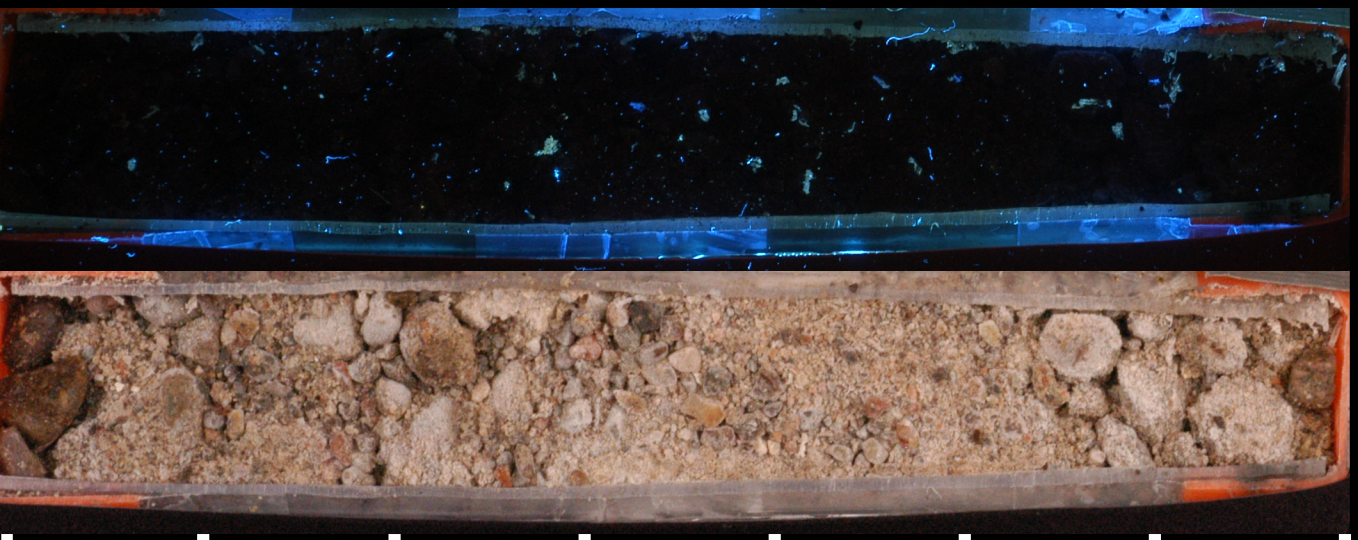
473.0

Each Interval Equals One Tenth of a Foot

474.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



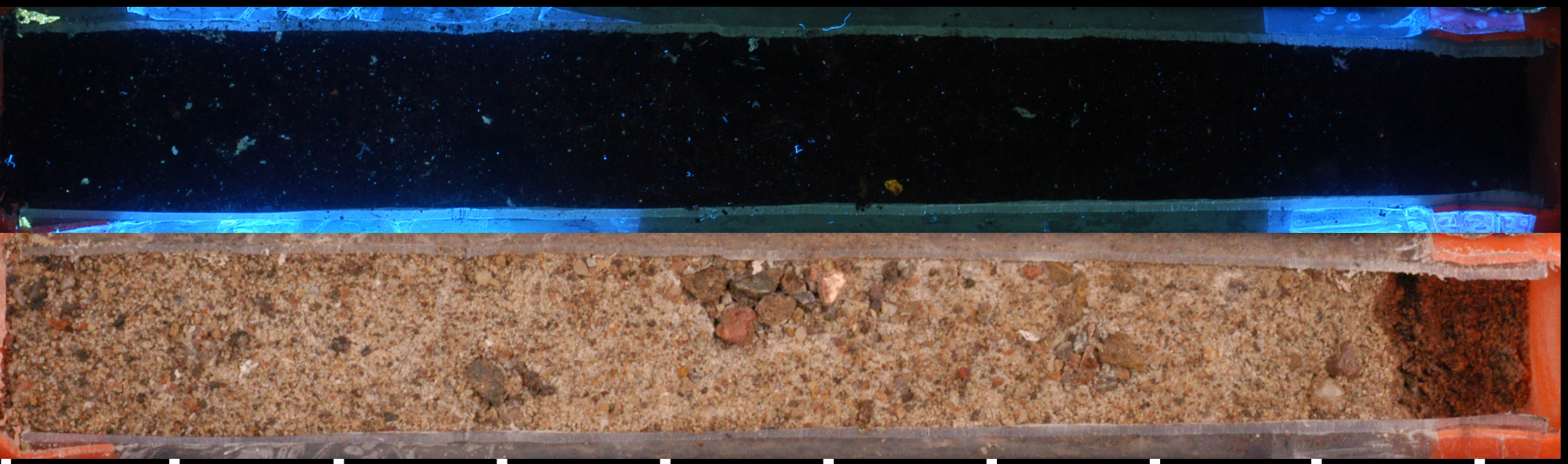
475.0

Each Interval Equals One Tenth of a Foot

476.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



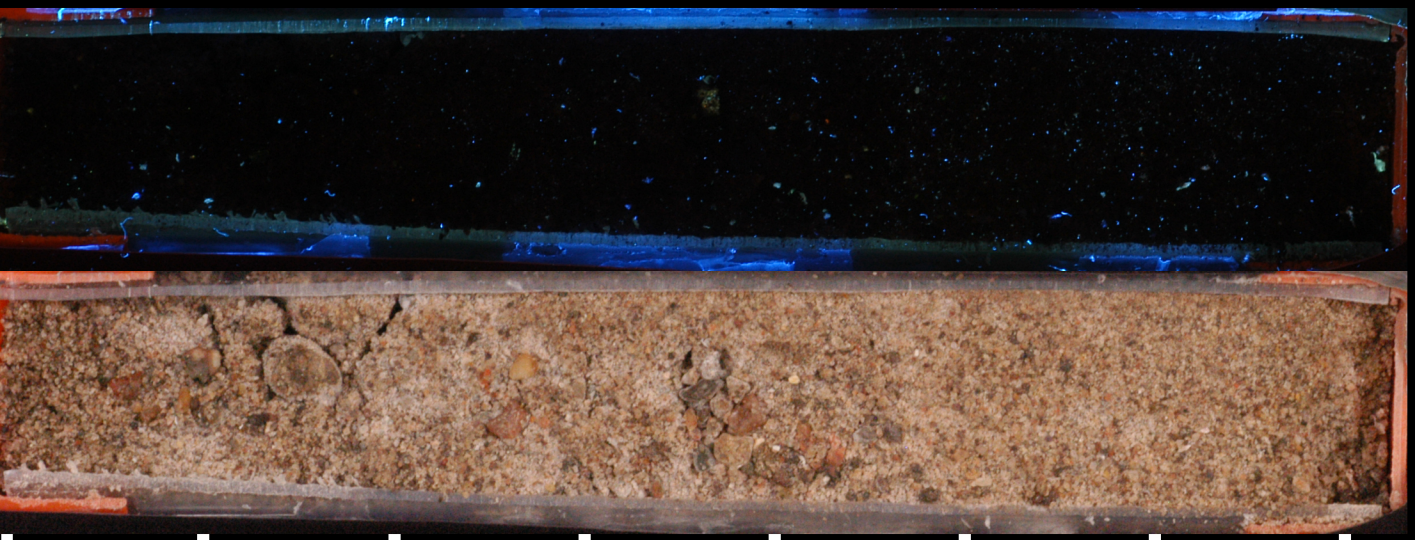
477.0

Each Interval Equals One Tenth of a Foot

478.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



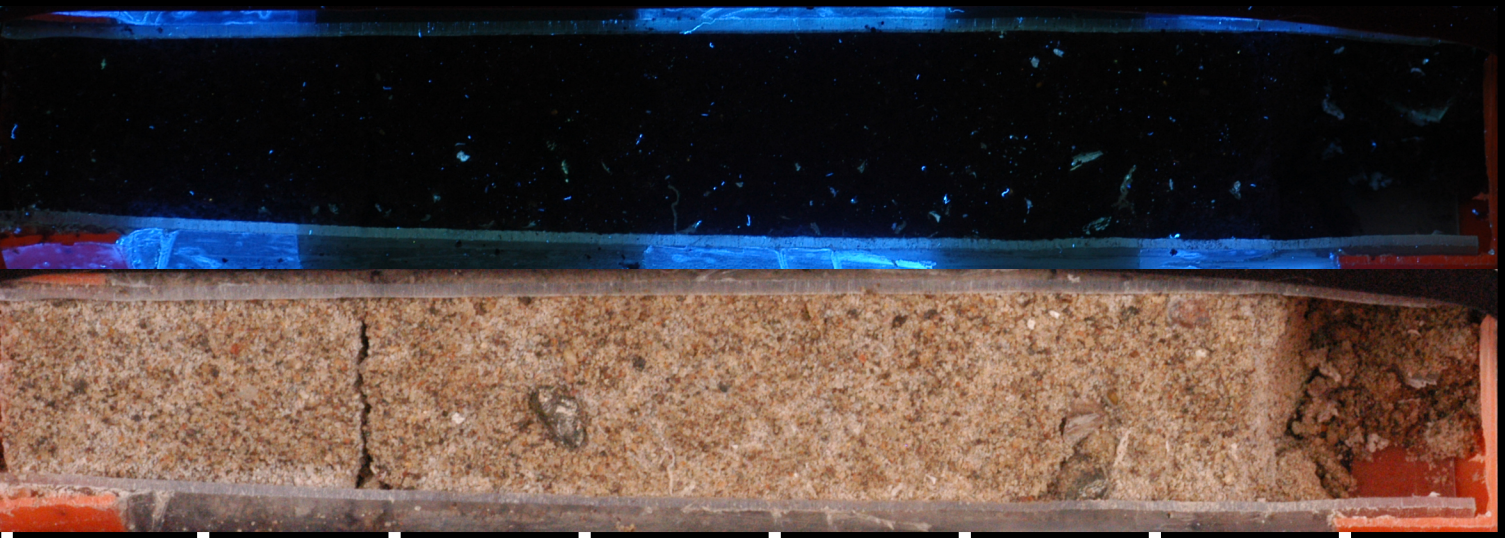
479.0

Each Interval Equals One Tenth of a Foot

480.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



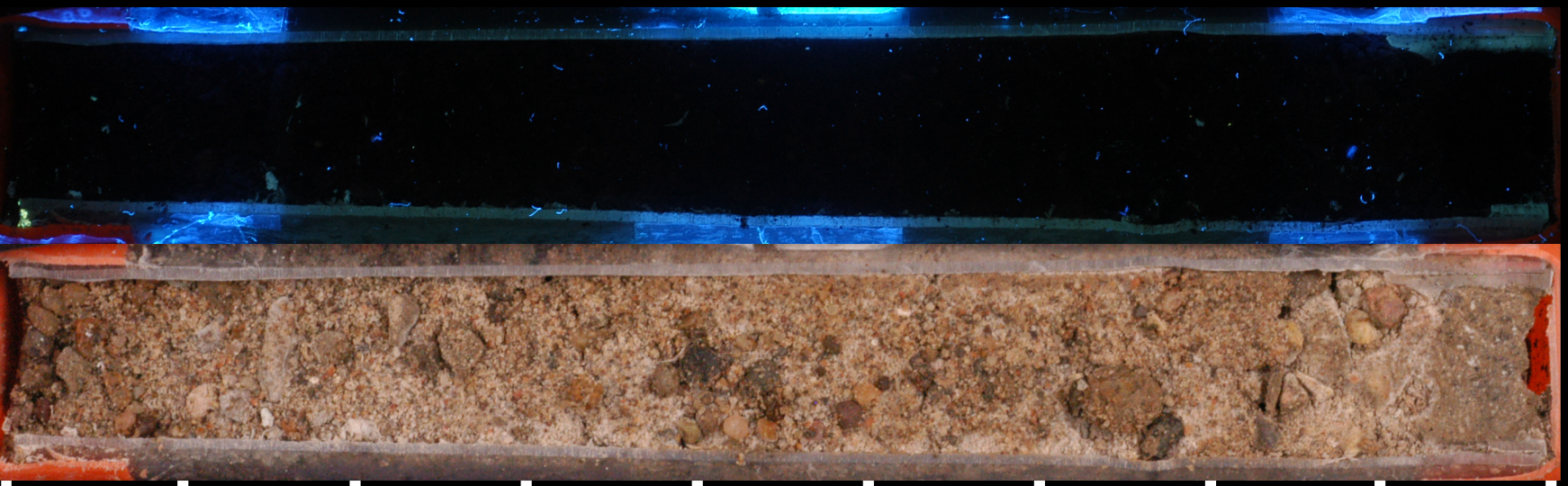
481.0

Each Interval Equals One Tenth of a Foot

482.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



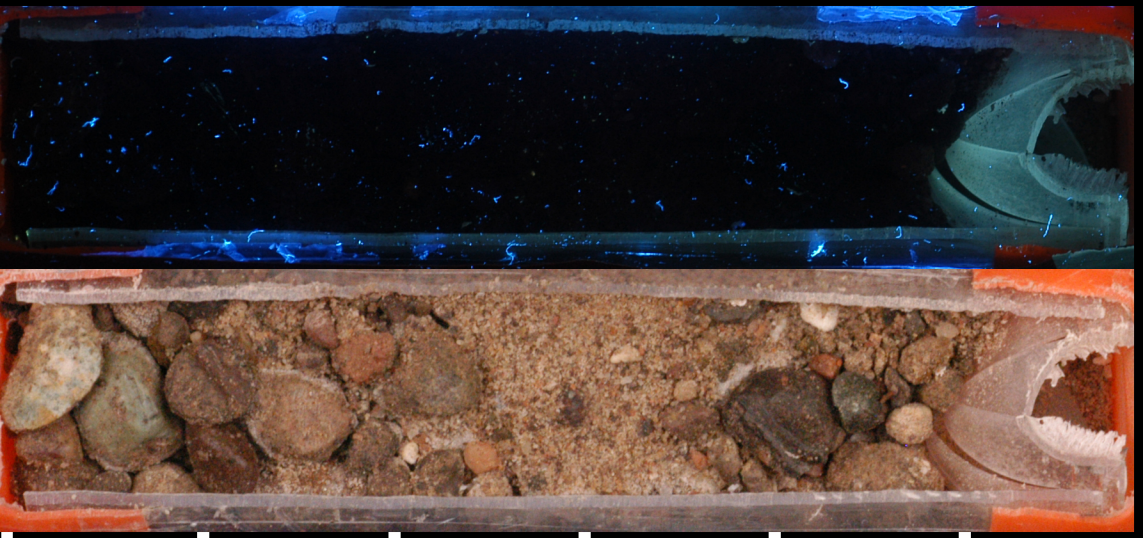
483.0

Each Interval Equals One Tenth of a Foot

484.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



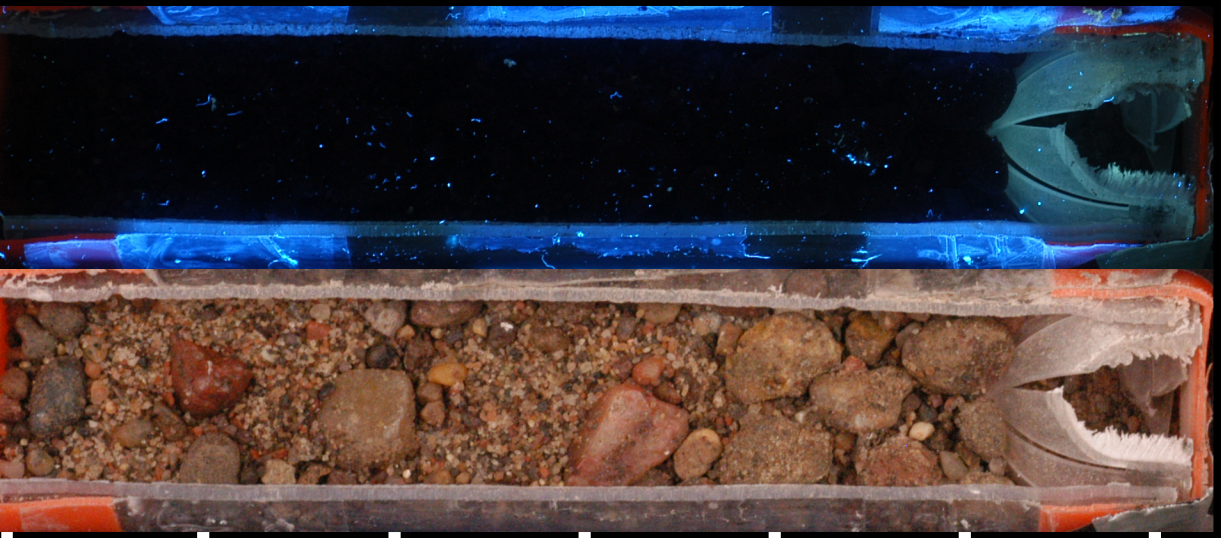
485.0

Each Interval Equals One Tenth of a Foot

486.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



489.0

Each Interval Equals One Tenth of a Foot

490.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328

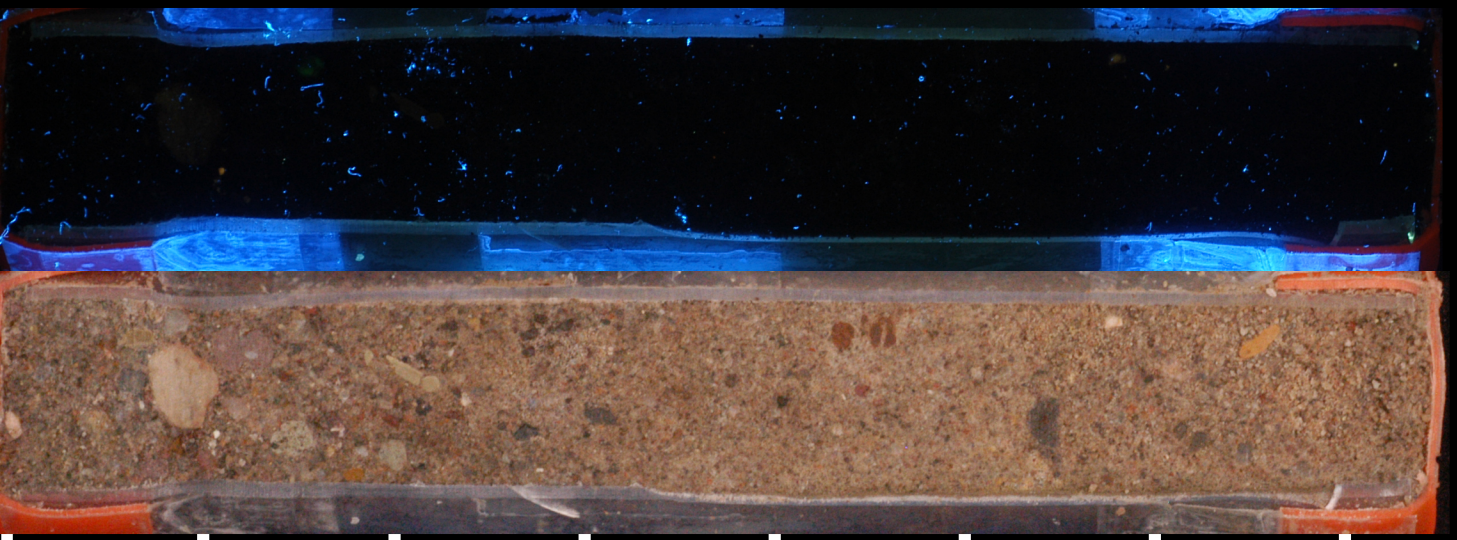
491.0

Each Interval Equals One Tenth of a Foot

492.0

Project: Kirtlin AFB
Boring ID: 10628

PTS Laboratories
PTS File No.: 40328



497.0

Each Interval Equals One Tenth of a Foot

498.0

Project: Kirtlin AFB
Boring ID: 10628

# ATTACHMENT 2

## WELL INSTALLATION FIELD DATA

**Soil Boring Log**
**Well Completion Diagram**
**Well Development Log**
**Survey Data**

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 1 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY.) | COMMENTS (DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID)) |
|---|---|---|---|---|---|
| | | | | NO SAMPLE COLLECTED | 11:10 Start Drilling<br>11 3/4" casing triconebit |
| | | | 20'<br>11 3/4"<br>casing | | |
| 10 | | Grab | | WELL GRADED SAND WITH SILT<br>(SWSM) Reddish Brown, (5 yr 4/4)<br>Moist, Non-Plastic, trace gravel | VOC= 0.0ppm<br>11:33 0-20' casing in |
| 20 | | Grab | | WELL GRADED SAND WITH GRAVE<br>(SW) Brown, (7.5 yr 4/4), Wet*, Non-plastic<br>Gravel in sub-angular<br>* Wet from injected water | 12:50 drilling to 40" adding water to cyclone to help control dust<br>VOC= 0.0ppm |
| | | | 20'<br>11 3/4"<br>casing | | |
| 30 | | Grab | | WELL GRADED SAND WITH GRAVE<br>Brown, (7.5 yr 5/4) Moist, Non-plasic, ~20% gravel less gravel than 20-30' grab, sand predom., med-coarse grained | VOC= 0.0 ppm<br>13:10 at 40' |
| 40 | | Grab | | WELL GRADED SAND<br>(SW), Brown, (7.5 yr 5/4), dry, non plastic, sand predom., med coarse grained | 13:16 drilling to 60'<br>VOC= 0.0ppm |
| | | | 20'<br>11 3/4"<br>casing | | |
| 50 | | Grab | | SAME AS ABOVE | VOC= 0.0ppm<br>13:40 at 60' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 2 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY.) | COMMENTS (DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID)) |
|---|---|---|---|---|---|---|
| 60 | | | Grab | | SAME AS ABOVE<br>Sand pred., coarse grained | 13:42 making 60-80' connection<br>VOC= 0.0 ppm |
| 70 | | | Grab | | SAME AS ABOVE | VOC= 0.0ppm<br>14:15 |
| 80 | | | Grab | | SAME AS ABOVE<br>Sand med-coarse grained | 16:15 drilling to 100'<br>VOC= 0.0ppm |
| 90 | | | Grab | | SAME AS ABOVE | VOC= 0.0 ppm |
| 100 | | | | | NO SAMPLE COLLECTED | 16:35 at 100'<br>100-120 connection<br>VOC= 0.0ppm |
| 110 | | | Grab | | CLAY<br>(CL), Reddish Brown, (5yr 5/4)<br>Moist, medium plasticity, trace sand | VOC= 0.0ppm<br>1700 at 120' done for 4/14/10 |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 3 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 120 | | | Grab | | SILT<br>(ML) Brown, (7.5 yr 5/4)<br>dry, non-plastic, trace sand | 4/15/2010<br>07:48 making 120-140' connection |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 130 | | | | | NO RECOVERY, HOSE IS CLOGGED | |
| | | | | | | 08:10 at 140', hose and cyclone are clogged |
| 140 | | | | | NO RECOVERY, HOSE IS CLOGGED | |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 150 | | | Grab | | WELL GRADED SAND<br>(SW) Brown, (7.5 yr 5/4) dry,<br>trace fine gravel | VOC= 0.0 ppm |
| | | | | | | 09:15 at 160'<br>Making 160-180' connection |
| 160 | | | Grab | | SAME AS ABOVE | |
| | | | | | | 09:55 drilling to 180' |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 170 | | | | | SAME AS ABOVE | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 4 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 180 | | Grab | | SAME AS ABOVE<br>Sand predom. Med-coarse grained | 10:14 drilling to 200' |
| | | | 20' 11 3/4" casing | | |
| 190 | | Grab | | POORLY GRADED SAND (SP)<br>Light Olive Brown, (2.5 yr 5/3), predom med grained, moist, non plastic | |
| | | | | | 10:50 at 200' w/5' 11 3/4 casing to drive to ground surface |
| 200 | | Grab | | SAME AS ABOVE<br>(10 yr 5/4) Yellowish brown | 4/19/2010<br>9 5/8"<br>13:30 start drilling w/9 5/8" 200-220' casing |
| | | | 20' 9 5/8" casing | | |
| 210 | | Grab | | SAME AS ABOVE | Driller injecting water into cyclone for dust control<br>VOC=0.0ppm |
| 220 | | Grab | | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 4/4) Moist, non plastic, trace gravel | 13:53 making 220-240' connection<br>VOC=0.0ppm |
| | | | 20' 9 5/8" casing | | |
| 230 | | Grab | | WELL GRADED SAND W/GRAVEL<br>(SW) Brown, (7.5yr 4/4) Moist, non plastic | VOC=0.0ppm<br>14:05 at 240' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 5 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 240 | | | Grab | | POORLY GRADED SAND (SP)<br>Brown, (7.5 yr 5/4) predom. Med grained, moist, non plastic | 14:12 making 240-260' connection<br>VOC=0.0ppm |
| 250 | | | Grab | 20' 9 5/8" casing | WELL GRADED SAND W/CLAY (SW-SC)<br>(7.5 yr 5/3) Brown, Moist, low plasticity | VOC=0.0ppm |
| 260 | | | Grab | | POORLY GRADED SAND (SP)<br>Brown, (7.5 yr 5/4), fine grained, moist non plastic | 14:26 making 260-280' connection<br>VOC=0.0ppm |
| 270 | | | Grab | 20' 9 5/8" casing | SAME AS ABOVE,<br>Med grained brown (7.5 yr 4/4) | VOC=0.0ppm<br>14:50 making 280-300' connection |
| 280 | | | Grab | | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 4/4) Moist, non plastic | VOC=0.0ppm |
| 290 | | | Grab | 20' 9 5/8" casing | SAME AS ABOVE | VOC=0.0ppm |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 6 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 300 | | | Grab | | SAME AS ABOVE W/GRAVEL | 15:26 Drilling to 3201 |
| | | | | | | VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 310 | | | Grab | | SAME AS 300' | |
| | | | | | | VOC=0.0ppm |
| | | | | | | 15:38 at 320' |
| 320 | | | Grab | | SAME AS 300' | |
| | | | | | | VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 330 | | | Grab | | WELL GRADED SAND W/GRAVEL(SW) Brown, (7.5yr 5/4), moist, no plasticity, gravel is sub rounded | |
| | | | | | | VOC=0.0ppm |
| | | | | | | 16:07 making 340-360' connection |
| 340 | | | Grab | | SAME AS ABOVE | |
| | | | | 20' 9 5/8" casing | | |
| 350 | | | Grab | | SAME AS ABOVE | |
| | | | | | | 16:48 AT 360' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 7 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 360 | | | Grab | | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 5/4), moist, non plastic, sand predom, med coarse grained | 16:51 making 360-380' connection<br>VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 370 | | | Grab | | WELL GRADED SAND W/GRAVEL (SW)<br>Brown, (7.5 yr 5/4), moist, non plastic, sand med coarse grained, gravel fine | VOC=0.0ppm<br>17:10 at 380'<br>Driller said there was a very hard layer at 377' casing would not advance, possibly a boulder |
| 380 | | | Grab | | SAME AS ABOVE | 4/20/2010<br>VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 390 | | | Grab | | SAME AS ABOVE | VOC=0.0ppm<br>08:50 Making 400-420' connection |
| 400 | | | Grab | | WELL GRADED FINE GRAVEL W/SAND (GW)<br>Brown, (7.5 yr 5/4) moist, non plastic | VOC=0.0ppm |
| | | | Grab | | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 5/4) moist non plastic predom med grained | VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 410 | | | Grab | | SAME AS ABOVE | VOC=0.0ppm |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 8 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY.) | COMMENTS (DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID)) |
|---|---|---|---|---|---|
| 420 | | Grab | | SAME AS ABOVE | 09:21 Making 420-440' connection<br>09:28 Drilling to 440'<br>VOC=0.0ppm |
| 430 | | Grab | 20' 9 5/8" casing | SAME AS ABOVE<br>Fine grained | VOC=0.0ppm<br>09:52 at 440' |
| 440 | | Grab | | POORLY GRADED SAND (SP)<br>Light Brown, (7.5 yr 6/3), moist, non plastic, sand med grained | VOC=0.0ppm |
| 450 | | Grab | 20' 9 5/8" casing | WELL GRADED GRAVEL W/SAND (GW)<br>Brown, (7.5 yr 5/4), moist, non plastic, gravel fine grained sand course grained | VOC=0.0ppm<br>10:32 at 460' making 460-480' connection |
| 460 | | Grab | | SAME AS 440' | VOC=0.0ppm |
| 470 | | Grab | 20' 9 5/8" casing | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 5/3), moist, non plastic | VOC=0.0ppm |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10626 | SHEET 9 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 Drilling | LOCATION : | Anderson and Florida |
| ELEVATION : | | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/4/10 11:00 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 480 | | | Grab | | SAME AS ABOVE | 11:04 Making 480-500' connection |
| | | | | | | VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 490 | | | Grab | | WELL GRADED GRAVEL W/SAND (GW) Brown, (7.5 yr 5/4), wet, non plastic gravel is fine grained, sand coarse grained | |
| | | | | | | VOC=0.0ppm |
| 500 | | | Grab | | SAME AS ABOVE Some course gravel up to ~50mm | |
| | | | | | | VOC=0.0ppm |
| | | | | 20' 9 5/8" casing | | |
| 510 | | | Grab | | | TD of hole 510' 4/20/2010 12:45 |

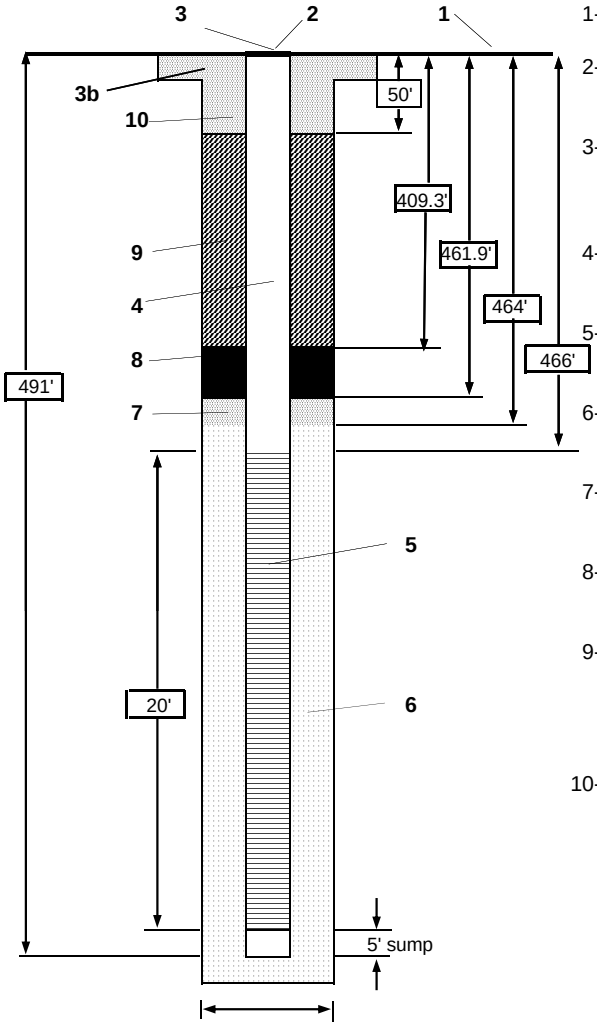
| CH2MHILL | PROJECT NUMBER | WELL NUMBER KAFB-10626 SHEET 1 OF 1 |
|---|---|---|
| | | **WELL COMPLETION DIAGRAM** |

PROJECT : ST-106 KAFB Bulk Fuels Facility LOCATION : Intersection of Anderson SE and Florida SE

DRILLING CONTRACTOR : WDC Exploration & Wells COORDINATES :

DRILLING METHOD AND EQUIPMENT USED : Air Rotary Casing Hammer, Speedstar 30K

WATER LEVEL : 471' START : 4/14/2010 END : 4/23/2010 LOGGER : M. Brislen




| | |
|---|---|
| 1- Ground elevation at well | TBD |
| 2- Top of casing elevation | TBD |
| a) vent hole? | no |
| 3- Wellhead protection cover type | 12" dia. steel vault, flush mount |
| a) weep hole? | no |
| b) concrete pad dimensions | 4' x 4' |
| 4- Dia./type of well casing | 4" schedule 80 PVC |
| 5- Type/slot size of screen | pvc 0.010" slot |
| 6- Type screen filter | 10/20 Colorado Silica Sand |
| 7- Transition sand | 20/40 Colorado Silica Sand |
| 8- Type of seal | hydrated bentonite chips |
| 9- Grout | |
| a) Grout mix used | volclay bentonite grout |
| b) Method of placement | |
| 10- Cement | |
| a) Cement mix used | portland cement grout |
| b) Method of placement | |
| Development method | |
| Estimated purge volume | |
| Comments | |

Not to scale

CH2MHILL

**PROJECT NUMBER** 376387 | **WELL ID** KAFB-10626

# WELL DEVELOPMENT FIELD DATA SHEET

PROJECT: Kirtland AFB Bulk Fuels Facility | LOCATION: Anderson Ave SE at Florida St SE

WEATHER (wind/temp/ppt): Warm | OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS:

INITIAL DEPTH TO WATER: 471.50 ft btoc static 4/27/10 08:35 TOTAL DEPTH OF WELL: 491.0 ft bgs SCREENED INTERVAL: 466-486 ft bgs

PURGE VOLUME CALCULATION: Casing volume = (491-471.5) x 0.653 =12.73 gallons/ 10 casing volumes = 127 gallons

METHOD OF PURGING: Submersible pump

DISPOSITION OF DISCHARGE WATER: In tank at Bulk Fuels Facility compound

MONITORING EQUIPMENT USED: Horiba U-22, Hach Turbidimeter

## Well Purging Information

| Date<br>Time | Total volume (gals) | Temp (°C) | pH | Conductivity (mS/cm) | Turbidity (NTU) | DO | ORP | Remarks (color, odor, sheen, sediment, etc.) |
|---|---|---|---|---|---|---|---|---|
| **4/23/2010** | 100 | Swab and bail well for approximately 4 hours. Development interupted due to asphalt repair and monument completion. All sand bailed out. | | | | | | |
| **4/27/2010** | | | | | | | | |
| 8:35 | 100 | Record static water level. Hard sound at bottom at 491.55 ft btoc. Set pump at bottom of screen at 486 ft bgs. | | | | | | |
| 11:25 | 100 | | | | | | | Start purge at 0.75 gpm |
| 11:30 | 104 | 23.24 | 6.82 | 0.648 | 58.10 | 8.53 | 140 | Use flow-through cell |
| 11:45 | 114 | 21.73 | 6.63 | 0.490 | 73.20 | 8.28 | 129 | |
| 11:55 | 121.5 | 22.39 | 7.01 | 0.501 | 67.90 | 5.70 | 116 | |
| 12:05 | 130 | 21.95 | 7.19 | 0.500 | 148.0 | 5.59 | 113 | Bump up to 1.0 gpm |
| 12:15 | 140 | 22.60 | 7.36 | 0.499 | 87.5 | 5.49 | 99 | |
| 12:30 | 155 | 24.65 | 7.48 | 0.483 | 52.2 | 4.37 | 89 | |
| 12:35 | 170 | 25.78 | 7.50 | 0.495 | 24.4 | 4.43 | 90 | |
| 12:45 | 185 | 26.42 | 7.51 | 0.474 | 46.7 | 6.91* | 93 | Bump to 1.5 gpm *(not able to use flow-through cell) |
| 12:55 | 200 | 27.54 | 7.55 | 0.476 | 41.3 | 6.98* | 89 | |
| 13:05 | 215 | 27.68 | 7.54 | 0.478 | 35.2 | 7.13* | 87 | |
| 13:10 | 220 | 28.34 | 7.61 | 0.487 | 14.6 | 6.24 | 85 | Back to 1gpm for stabalization (resume use of flow-through cell) |
| 13:15 | 225 | 27.57 | 7.63 | 0.488 | 8.3 | 6.01 | 85 | |
| 13:20 | 230 | 27.02 | 7.64 | 0.478 | 2.0 | 5.82 | 85 | wait for DO to stabalize |
| 13:25 | 235 | 26.64 | 7.65 | 0.477 | 3.4 | 5.79 | 86 | |
| 13:30 | 240 | 26.51 | 7.65 | 0.477 | 2.4 | 5.74 | 86 | Sample |
| Total Purged | 248 | | | | | | | |
| 13:38 | | | | | | | | Pump Off |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Initials of sampling personnel BM

# Sample Information

| | | | | | |
|---|---|---|---|---|---|
| SAMPLE DATE: | 4/27/2010 | SAMPLE TYPE: | grab | composite | SAMPLE MATRIX GW |
| SAMPLING PERSONNEL: | B. Moayyad | | SPLIT SAMPLES OBTAINED BY: | | |
| SAMPLING METHOD: | Submersible pump | | SAMPLE TEMP/pH/EC/TURB/DO: | See 13:30 | |
| SAMPLE ID(s): | ST106-GW-10626-27042010 | | DUPLICATE/BLANK SAMPLE ID(s): | | |
| NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): | | | | | |

| Sample ID | Sample Time | Sample Containers No. | Volume/Type | Preservatives (ice, acids, bases, others) | Analytical Method | Laboratory | Comments |
|---|---|---|---|---|---|---|---|
| **ST106-GW-10626-27042010** | 13:30 | 3 | 40-mL VOA | HCl, ice | SW8260 | PEL | |
| | | 3 | 40-mL VOA | ice | SW8011 | PEL | |
| | | 3 | 40-mL VOA | HCl, ice | SW8015B | PEL | |
| | | 2 | 1-L amber | ice | SW8015B | PEL | |
| | | 1 | 1-L amber | ice | SW8270C | PEL | |
| | | 1 | 1-L amber | ice | SW8310 | PEL | |
| | | 1 | 250-mL Poly | ice | E300.0 | PEL | |
| | | 1 | 250-mL Poly | ice | E310 | PEL | |
| | | 1 | 250-mL Poly | HNO3, ice | SW6010 | PEL | |
| | | | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 1 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| | | | | | | 4/27/2010 |
| | | | Grab | | SILT (ML)<br>Lt. reddish brown, (5yr 6/4), dry, non plastic, trace coarse sand | 9:40 Start drilling<br>VOC= 0.0ppm |
| | | | | 20' 11 3/4" casing | | |
| 10 | | | Grab | | SILT W/GRAVEL (ML)<br>Lt. reddish brown, (5yr 6/4), dry non plastic gravel is fine and sub angular | Driller injecting water in cyclone to control dust<br>VOC= 0.0ppm |
| | | | | | | 10:00 at 20' making 20-40' connection |
| 20 | | | Grab | | SILT (ML)<br>Lt. reddish brown, (5yr 6/4), dry, 10% clay in coarse sand to fine gravel sized chunks of med plasticity | 10:15 Drilling to 40'<br>VOC= 0.0ppm |
| | | | | 20' 11 3/4" casing | | |
| 30 | | | Grab | | SAME AS ABOVE | VOC= 0.0 ppm |
| | | | | | | 10:35 at 40' |
| 40 | | | Grab | | LEAN CLAY (CL)<br>Reddish brown, (5yr 4/4), dry, med plasticity, stiff | 10:50 Drilling to 60'<br>VOC= 0.0ppm |
| | | | | 20' 11 3/4" casing | | |
| 50 | | | Grab | | SAME AS 20'<br>30% Clay | VOC= 0.0ppm |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 2 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 60 | | | Grab | | SILT (ML)<br>Brown, (7.5yr 5/4), dry,<br>non plastic | 11:17 Drilling to 80'<br>VOC= 0.0ppm |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 70 | | | Grab | | SAME AS ABOVE | VOC= 0.0ppm |
| 80 | | | Grab | | SILT (ML)<br>Lt. brown, (7.5yr 6/4), dry,<br>dry low plasticity, 20% clay | 11:45 Drilling to 1001<br>VOC= 0.0ppm |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 90 | | | Grab | | WELL GRADED SAND (SW)<br>Brown, (7.5 yr 5/4), dry, non plastic,<br>predom fine med grained | VOC= 0.0 ppm<br>12:06 Drilling to 120' |
| 100 | | | Grab | | WELL GRADED SAND (SW)<br>Pale brown, (10 yr 6/3), dry, non plastic<br>predom. Fine grained sand | VOC= 0.0ppm |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 110 | | | Grab | | SILT (ML)<br>Lt. brown, (7.5 yr 6/3) dry, non plastic | VOC= 0.0ppm<br>12:14 at 120' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 3 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 120 | | Grab | | SILT (ML)<br>Brown, (7.5yr 5/4), dry, non plastic, trace clay | 13:09 Drilling to 140'<br>VOC= 0.0ppm |
| 130 | | Grab | | WELL GRADED SAND (SW)<br>Lt. brownish gray (10yr 6/2), dry, non plastic, 10% clay chunks, sand pred, fine grained | VOC= 0.0ppm<br>13:25 at 140' |
| 140 | | Grab | | SILT W/SAND (ML)<br>Pinkish gray, (7.5 yr 6/2) dry, non plastic | VOC= 0.0ppm |
| 150 | | Grab | | WELL GRADED SAND (SW)<br>Lt. Brownish gray, (10 yr 6/2), dry, non plastic, | VOC= 0.0 ppm<br>13:41 making 160-180' connection |
| 160 | | Grab | | SAME AS ABOVE W/GRAVEL | VOC= 0.0ppm |
| 170 | | Grab | | SAME AS ABOVE<br>Trace gravel | VOC= 0.0ppm<br>13:58 at 180' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 4 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY.) | COMMENTS (DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID)) |
|---|---|---|---|---|---|
| 180 | | Grab | | SAME AS ABOVE | 14:13 Making 180-200' connection |
| | | | | | VOC= 0.0ppm |
| | | | 20' 11 3/4" casing | | |
| 190 | | Grab | | SAME AS ABOVE | |
| | | | | | VOC= 0.0ppm |
| | | | | | 14:30 at 200' |
| 200 | | Grab | | WELL GRADED SAND (SW) Brown, (7.5 yr 5/3), dry, non plastic | 4/28/2010 08:45 Start drilling |
| | | | | | VOC= 0.0ppm |
| | | | 20' 9 5/8" casing | | |
| 210 | | Grab | | SAME AS ABOVE Sand predom, fine to medium grained | VOC= 0.0 ppm |
| | | | | | 09:02 making 220-240' connection |
| 220 | | Grab | | POORLY GRADED SAND (SP) Light brown, (7.5 yr 6/3), predominately fine gavel, dry, non plastic | |
| | | | 20' 9 5/8" casing | | |
| 230 | | Grab | | SAME AS ABOVE | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 5 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 240 | | Grab | | POORLY GRADED SAND (SP)<br>(5 yr 6/3) Light reddish brown, very fine grained, dry, non plastic | VOC= 0.0ppm |
| | | | 20'<br>9 5/8"<br>casing | | |
| 250 | | Grab | | SAME AS ABOVE | VOC= 0.0ppm<br>09:35 Making connection 260-280' |
| 260 | | Grab | | SAME AS ABOVE | VOC= 0.0ppm |
| | | | 20'<br>9 5/8"<br>casing | | |
| 270 | | Grab | | WELL GRADED SAND (SW)<br>(5 yr 6/3) Light reddish brown, predominately fine grained, dry, non plastic | VOC= 0.0 ppm |
| 280 | | Grab | | SAME AS ABOVE | 09:50 Making 280-300' connection |
| | | | 20'<br>9 5/8"<br>casing | | |
| 290 | | Grab | | WELL GRADED SAND W/FINE GRAVEL(SW)<br>(7 yr 5/2) Brown, predominately medium grained dry, non plastic | 10:09 Making 300-320' |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 6 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) / NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|
| 300 | Grab | | SAME AS ABOVE | PID= 0.0 |
| 310 | Grab | | POORLY GRADED SAND (SP)<br>(7.5 yr 6/4) Light brown, fine grained,dry non plastic | PID= 0.0<br>10:26 Add 320-340 |
| 320 | Grab | | SAME AS ABOVE | PID= 0.0 |
| 330 | Grab | | WELL GRADED SAND W/GRAVEL (<br>(7.5 yr 5/4) brown, predominately fine grained, dry, non plastic | PID= 0.0 |
| 340 | Grab | | WELL GRADED SAND W/CLAY (SW-SC)<br>(5 yr 5/3) Reddish brown, predominately medium grained, dry, non plastic | 10:45 Add 340-360<br>PID= 0.0 |
| 350 | Grab | | POORLY GRADED SAND (SP)<br>(5 yr 6/3) Light reddish brown, fine grained dry, non plastic | PID= 0.0<br>11:01 Add 360-380 |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 7 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY.) | COMMENTS (DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID)) |
|---|---|---|---|---|---|
| 360 | | Grab | | SAME AS ABOVE | PID= 0.0 |
| | | | 20' 9 5/8" casing | | |
| 370 | | Grab | | WELL GRADED SAND W/GRAVEL (SW) (5 yr 6/2) Pinkish grey, medium grained,dry non plastic | PID= 0.0 |
| | | | | | 11:19 Making 380-400' connection |
| 380 | | Grab | | SAME AS ABOVE | PID= 0.0 |
| | | | 20' 9 5/8" casing | | |
| 390 | | Grab | | POORLY GRAINED SAND (SP) (5 yr 6/2) Pinkish grey, fine grained, dry non plastic | PID= 0.0 |
| 400 | | Grab | | WELL GRADED SAND (SW) (5 yr 5/3) Reddish brown, predominately medium grained, dry, non plastic | 11:45 Making 400-420 connection |
| | | | 20' 9 5/8" casing | | |
| 410 | | Grab | | POORLY GRADED SAND (SP) (5 yr 3/2) Dark reddish brown, medium grained dry, non plastic | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 8 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 420 | | Grab | | POORLY GRADED SAND (SP)<br>Fine grained, brown, (7.5 yr 5/3), dry, non plastic | 12:54 Making 420-440' connection<br>PID= 0.0 |
| 430 | | Grab | 20' 9 5/6" casing | SAME AS ABOVE | PID= 0.0 |
| 440 | | Grab | | SAME AS ABOVE, MOIST | 13:10 Making 440-460' Connection<br>PID= 0.0 |
| 450 | | Grab | | POORLY GRAINED SAND (SP)<br>Medium grained, (5 yr 5/3) reddish brown, moist non plastic | PID= 0.0 |
| 460 | | Grab | | WELL GRADED SAND (SW)<br>Predominately medium grained (5 yr 4/2) dark, reddish grey, dry, non plastic | 13:25 Making 460-480' connection |
| 470 | | Grab | | WELL GRADED SAND (SW)<br>(5 yr 6/2) Predominantly fine grained, pinkish grey dry, non plastic | |
| 480 | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 382698.02.FF.07.05 | KAFB-10627 | SHEET 9 OF 9 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 TO96 | LOCATION : | NMED 6 up gradient |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch Speedstar 30K | DRILLING CONTRACTOR : | WDC Lee Aylmer driller |
| WATER LEVEL : | START : 4/27/10 9:40 | END : | LOGGER : M. Brislen |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 480 | | Grab | | POORLY GRADED SAND W/GRAVEL<br>Reddish brown, (5 yr 4/3),<br>dry, non plastic, primarily fine grained | 13:55 Making 480-500 connection<br>PID= 0.0 |
| 490 | | Grab | | POORLY GRAINED SAND (SP)<br>(5 yr 6/3), Light reddish brown, dry,<br>non plastic, primarily medium grained | PID= 0.0 |
| 500 | | Grab | | SAME AS ABOVE,<br>(7.5 yr 5/3) Wet, brown | 14:20 Making 500-520' connection<br>3:45 Water at 500'<br>PID= 0.0 |
| 510 | | Grab | | WELL GRADED SAND (SW)<br>Brown, wet, primarily coarse grained (7.5 yr 5/4) | PID= 0.0 |
| 520 | | Grab | | SAME AS ABOVE | 15:06 Making 520-530' connection<br>PID= 0.0 |
| 530 | | | | | |
| 540 | | | | | |

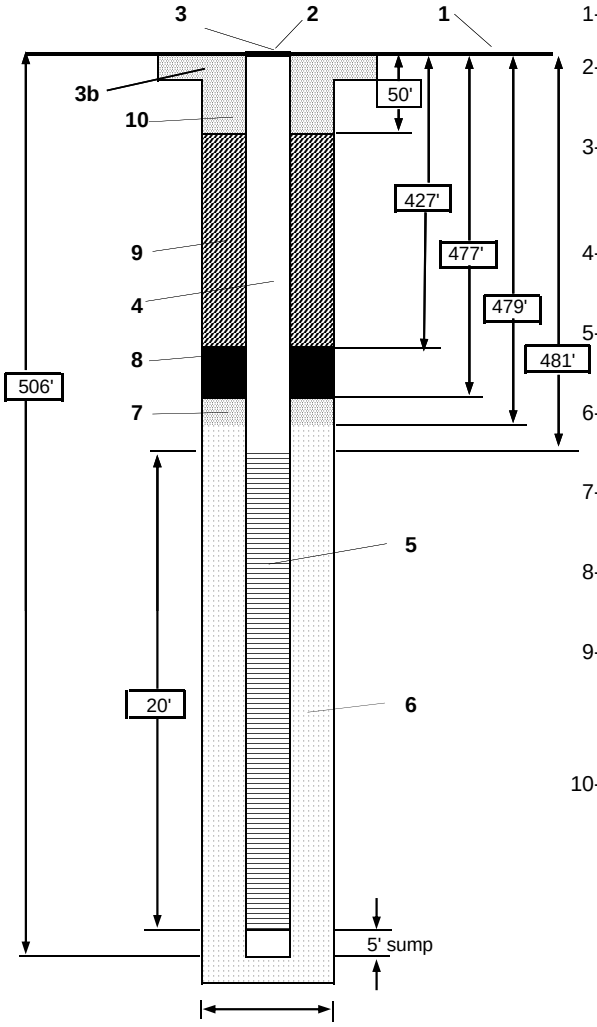
| CH2MHILL | PROJECT NUMBER | WELL NUMBER KAFB-10627 SHEET 1 OF 1 |
|---|---|---|
| | | **WELL COMPLETION DIAGRAM** |

PROJECT : ST-106 KAFB Bulk Fuels Facility LOCATION : KAFB Bulk Fuels Facility

DRILLING CONTRACTOR : WDC Exploration & Wells COORDINATES :

DRILLING METHOD AND EQUIPMENT USED : Air Rotary Casing Hammer, Speedstar 30K

WATER LEVEL : 488' START : 4/29/2010 END : 5/1/2010 LOGGER : M. Brislen and W. Conway




| | |
|---|---|
| 1- Ground elevation at well | TBD |
| 2- Top of casing elevation | TBD |
| a) vent hole? | no |
| 3- Wellhead protection cover type | 12" dia. steel vault, flush mount |
| a) weep hole? | no |
| b) concrete pad dimensions | 4' x 4' |
| 4- Dia./type of well casing | 4" schedule 80 PVC |
| 5- Type/slot size of screen | pvc 0.010" slot |
| 6- Type screen filter | 10/20 Colorado Silica Sand |
| | 36 bags |
| 7- Transition sand | 20/40 Colorado Silica Sand |
| | 2 bags |
| 8- Type of seal | hydrated bentonite chips |
| | 28 bags |
| 9- Grout | |
| a) Grout mix used | volclay bentonite grout |
| b) Method of placement | grout pump |
| | 57 bags |
| 10- Cement | |
| a) Cement mix used | portland cement grout |
| b) Method of placement | |
| Development method | bail, swab, bail, pump, |
| Estimated purge volume | |

| | |
|---|---|
| 11 3/4" | 0 - 200 ft bgs |
| 9 5/8" | 200 - 530 ft bgs |

Comments

Not to scale

CH2MHILL

**PROJECT NUMBER**

**WELL ID** KAFB-10627

# WELL DEVELOPMENT FIELD DATA SHEET

PROJECT: Kirtland AFB Bulk Fuels Facility LOCATION: Bulk Fuels Facility KAFB

WEATHER (wind/temp/ppt): Warm, windy OTHER NOTABLE FIELD CONDITIONS:

INITIAL ORGANIC VAPOR METER READINGS:

INITIAL DEPTH TO WATER: 488.8 static 4/27/10 08:35 TOTAL DEPTH OF WELL: 506 ft bgs SCREENED INTERVAL: 481-501 ft bgs

PURGE VOLUME CALCULATION: Casing volume = (506-488.8) x 0.653 =11.23 gallons 10 casing volumes = 112 gallons

METHOD OF PURGING: Submersible pump

DISPOSITION OF DISCHARGE WATER: In tank at Bulk Fuels Facility compound

MONITORING EQUIPMENT USED: Horiba U-22, Hach Turbidimeter

## Well Purging Information

| Date Time | Total volume (gals) | Temp (°C) | pH | Conductivity (mS/cm) | Turbidity (NTU) | DO | ORP | Remarks (color, odor, sheen, sediment, etc.) |
|---|---|---|---|---|---|---|---|---|
| **5/4/2010** | 100 | Swab and bail well for approximately 5 hours. | | | | | | |
| **5/5/2010** | | | | | | | | |
| 11:01 | 100 | Set pump at botom of screen, pump on | | | 131.0 | | | Pump rate at 0.25 gpm |
| 11:05 | 102 | | | | 76.8 | | | adjust flow to 0.75 gpm |
| 11:08 | 103 | | | | 69.6 | | | |
| 11:12 | 106.5 | | | | 170.0 | | | check flow rate, at 0.75gpm |
| 11:18 | 110 | | | | 254.0 | | | check flow rate, at 0.75gpm |
| 11:22 | 112 | | | | 254.0 | | | |
| 11:28 | 116.5 | | | | 215.0 | | | check flow rate, at 0.75gpm |
| 11:45 | 130 | | | | 46.1 | | | |
| 11:55 | 134.5 | 25 | 7.60 | 0.341 | 15.5 | 5.36 | 84 | Started using U-22 with flow through cell, prior to this using only turbidimeter |
| 12:08 | 142.5 | 25.71 | 7.66 | 0.340 | 8.42 | 5.10 | 67 | |
| 12:12 | checked flow rate 0.75 gal/min (took 1:19 to fill one gallon) | | | | | | | |
| 12:18 | 150.5 | 26.06 | 7.61 | 0.334 | 9.22 | 5.19 | 65 | |
| 12:24 | 153.5 | 26.2 | 7.64 | 0.335 | 5.90 | 5.22 | 64 | |
| 12:36 | 170.5 | 26.27 | 7.67 | 0.334 | 4.75 | 5.37 | 62 | |
| 12:55 | 173.5 | 26.36 | 7.69 | 0.333 | 3.55 | 5.55 | 59 | |
| 13:00 | 176.5 | 26.26 | 7.68 | 0.334 | 3.40 | 5.56 | 58 | |
| 13:05 | 180 | Sample | | | | | | |
| Total Purged | 248 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Initials of sampling personnel MB

# Sample Information

| | | | | | |
|---|---|---|---|---|---|
| SAMPLE DATE: | 5/5/2010 | SAMPLE TYPE: | grab | composite | SAMPLE MATRIX GW |
| SAMPLING PERSONNEL: | M.Brislen | | | SPLIT SAMPLES OBTAINED BY: | |
| SAMPLING METHOD: | Submersible pump | | | SAMPLE TEMP/pH/EC/TURB/DO: | See 13:00 |
| SAMPLE ID(s): | ST106-GW-10627-05052010 | | | DUPLICATE/BLANK SAMPLE ID(s): | |
| NOTABLE OBSERVATIONS (color, odor, sand, headspace, etc.): | | | | | |

| Sample ID | Sample Time | Sample Containers No. | Volume/Type | Preservatives (ice, acids, bases, others) | Analytical Method | Laboratory | Comments |
|---|---|---|---|---|---|---|---|
| **ST106-GW-10625-05052010** | 13:05 | 3 | 40-mL VOA | HCl, ice | SW8260 | PEL | |
| | | 3 | 40-mL VOA | ice | SW8011 | PEL | |
| | | 3 | 40-mL VOA | HCl, ice | SW8015B | PEL | |
| | | 2 | 1-L amber | ice | SW8015B | PEL | |
| | | 1 | 1-L amber | ice | SW8270C | PEL | |
| | | 1 | 1-L amber | ice | SW8310 | PEL | |
| | | 1 | 250-mL Poly | ice | E300.0 | PEL | |
| | | 1 | 250-mL Poly | ice | E310.1 | PEL | |
| | | 1 | 250-mL Poly | HNO3, ice | SW6010 | PEL | field filtered |
| | | | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 1 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 0 | | | Grab | | SILT (ML)<br>Reddish brown, (5 yr 4/4),<br>moist, non plastic | PID= 0.0 |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 10 | | | Grab | | SAME AS ABOVE | PID= 0.0 |
| | | | | | | 9:33 Add 20-40' casing |
| 20 | | | Grab | | SAME AS ABOVE. | PID= 0.0 |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 30 | | | Grab | | LEAN CLAY (CL)<br>(5 yr 5/6), Yellowish-red, moist,<br>low plasticity | PID= 0.0 |
| | | | | | | 10:00 Add 40-60' casing |
| 40 | | | Grab | | CLAYEY SAND (SC)<br>(5 yr 4/6), Yellowish red, moist,<br>low plasticity, predominately medium grained | PID= 0.0 |
| | | | | 20'<br>11 3/4"<br>casing | | |
| 50 | | | Grab | | SAME AS ABOVE | PID= 0.0 |
| 60 | | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 2 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 60 | | Grab | | CLAYEY SAND (SC)<br>(5 yr 4/3) Reddish brown, moist, low plasticity predominately fine grained | 10:17 Added 60-80' casing<br>PID= 0.0 |
| 70 | | Grab | | LEAN CLAY (CL)<br>(5 yr 4/3), Reddish brown, moist, low plasticity | PID= 0.0<br>12:29 Added 80-100' casing |
| 80 | | Grab | | SAME AS ABOVE. | PID= 0.0 |
| 90 | | Grab | | CLAYEY SAND (SL)<br>(5 yr 4/4), Reddish brown, moist, low plasticity, fine grained | PID= 0.0<br>12:50 Added 100-120' casing |
| 100 | | Grab | | POORLY GRADED SAND (SP)<br>(7.5 yr 4/2), Brown, non plastc dry, fine grained | |
| 110 | | Grab | | SAME AS ABOVE | |
| 120 | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 3 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) / NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|
| 120 | Grab | | SILT<br>(5 yr 5/3) Reddish brown, moist, low plasticity | 13:37 Added 120-140' casing<br>PID= 0.0 |
| 130 | Grab | | SAME AS ABOVE | PID= 0.0<br>07:00 Making 140-160' connection |
| 140 | Grab | | SILTY SAND (SM)<br>(7.5 yr 4/4) Brown, moist, non plastic, fine grained | PID= 0.0 |
| 150 | Grab | | SAME AS ABOVE | PID= 0.0<br>07:55 Make 160-180' connection |
| 160 | Grab | | WELL GRADED SAND W/SILT AND GRAVEL<br>(SW-SM), (7.5 yr 4/4), Brown, moist, non plastic, predominately medium grained | |
| 170 | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 4/4), Brown, dry, non plastic predominately medium grained | |
| 180 | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 4 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 180 | | Grab | | POORLY GRADED SAND (SP)<br>(7.5 yr 6/3) Light brown, dry non plasticity fine grained | 08:24 Added 180-200' connection<br>PID= 0.0 |
| | | | 20'<br>11 3/4"<br>casing | | |
| 190 | | Grab | | SAME AS ABOVE | PID= 0.0 |
| | | | | | 08:49 Added 200-220' connection |
| 200 | | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 5/3) Brown, dry, non plastic, predominately medium grained | PID= 0.0 |
| | | | 20'<br>11 3/4"<br>casing | | |
| 210 | | Grab | | POORLY GRADED SAND (SP)<br>(7.5 yr 5/2), Brown, dry, non plastic, fine grained | PID= 0.0 |
| 220 | | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 5/2), Brown, dry, non plastic, predominately fine grained | |
| | | | 20'<br>11 3/4"<br>casing | | |
| 230 | | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 5/2), Brown, dry, non plastic predominately medium grained | |
| 240 | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 5 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) / NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|
| 240 | Grab | | POORLY GRADED SAND (SP)<br>(7.5 yr 6/2) Pinkish grey, dry non plasticity fine grained | 07:10 Make 240-260' connection<br>VOC=0.0 |
| 250 | Grab | | SAME AS ABOVE | VOC=0.0<br>07:40 Added 260-270' |
| 260 | Grab | | LEAN CLAY (CL)<br>(7.5 yr 6/3) Light brown, moist, low plasticity | Used to drive 11 3/4 " Casing to Grour<br>12:40 Added 240-260 casing<br>VOC=0.0 |
| 270 | Grab | | SAME AS ABOVE | VOC=0.0<br>13:23 Add 260-280' casing |
| 280 | Grab | | SAME AS ABOVE | VOC=0.0 |
| 290 | Grab | | SAME AS ABOVE | VOC=0.0 |
| 300 | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 6 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) / RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 300 | | Grab | | WELL GRADED SAND W/GRAVEL (SW)<br>(7.5 yr 6/4) Light brown, dry non plasticity<br>predominately medium grained | 13:50 Added 300-320'<br>PID=0.0 |
| | | | 20'<br>9 3/4"<br>casing | | |
| 310 | | Grab | | SAME AS ABOVE<br>Sand = Gravel<br>50% - 50% | PID= 0.0<br>14:03 Added 320-340 Casing |
| 320 | | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 5/3) Brown, dry, non plastic<br>predominately medium grained | PID= 0.0 |
| | | | 20'<br>9 3/4"<br>casing | | |
| 330 | | Grab | | POORLY GRADED SAND W/ GRAVEL (SP)<br>(7.5 yr 5/3) Brown, dry, non plastic, fine grained | PID= 0.0 |
| 340 | | Grab | | WELL GRADED SAND (SW)<br>(10 yr 5/2), Greyish brown, dry, non plastic<br>predominately coarse grained | 14:19 Added 340-360' casing<br>PID= 0.0 |
| | | | 20'<br>9 3/4"<br>casing | | |
| 350 | | Grab | | WELL GRADED SAND W/ GRAVEL (SW)<br>(10 yr 5/2), Greyish brown, dry, non plastic,<br>predominately medium grained | PID= 0.0 |
| 360 | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 7 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 360 | | | Grab | | WELL GRADED SAND (SW)<br>(10 yr 5/6) Yellowish brown, dry, non plastic<br>predominately medium grained | 14:46 Added 360-380'<br>PID=0.0 |
| | | | | 20'<br>9 3/4"<br>casing | | |
| 370 | | | Grab | | WELL GRADED GRAVEL W/SAND (GW)<br>(7.5 yr 5/3), Brown, dry, non plastic,<br>fine grained | PID= 0.0<br>15:17 Added 380-400 casing |
| 380 | | | Grab | | WELL GRADED SAND (SW)<br>(7.5 yr 5/3) Brown, dry, non plastic<br>predominately coarse grained | PID= 0.0 |
| | | | | 20'<br>9 3/4"<br>casing | | |
| 390 | | | Grab | | WELL GRADED SAND (SW)<br>(10 yr 5/3), Brown, dry, non plastic<br>fine grained | PID= 0.0 |
| 400 | | | Grab | | SAME AS ABOVE | 15:39 Added 400-420' |
| | | | | 20'<br>9 3/4"<br>casing | | |
| 410 | | | Grab | | SAME AS ABOVE | |
| 420 | | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 8 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 420 | | | Grab | | POORLY GRADED SAND (SP) (7.5 yr 4/3), Brown, fine grained, dry, non plastic | 16:00 420-440' casing<br>PID=0.0 |
| 430 | | | Grab | 20' 9 3/4" casing | SAME AS ABOVE | PID= 0.0 |
| 440 | | | Grab | | POORLY GRADED SAND W/ GRAVE (7.5 yr 4/3) Brown, dry, fine grained, non plastic | 16:18 Added 440-460' casing<br>PID= 0.0 |
| 450 | | | Grab | | WELL GRADED SAND (SW) (7.5 yr 4/3), Brown, predominately fine grained, non plastic | PID= 0.0 |
| 455 | | | | | | |
| 460 | | 0/60 | Grab | | | PID=0.0 |
| 461.5 | | 0/18 | SS | | POORLY GRADED SAND (SP) (7.5 yr 6/4), Light brown, fine grained, non plastic | |
| 465 | | | SS | | | |
| 470 | | | SS | | | |
| | | | SS | | | |
| 480 | | | | | | |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 9 OF 10 |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) | INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|---|
| 468 | | | | | WELL GRADED SAND (SW) | PID=2.5 |
| | | 12/18 | SS-1 | | predominately medium grained, dry, non plastic | |
| 469.5 | | | | | | |
| 470 | | | | | (7.5 yr 5/4), brown | PID=0.0 Disturbed sample |
| | 471.5 | 8/17 | SS-2 | | | |
| | 472<br>473 | 0/13 | SS-3 | | NO RECOVERY | |
| | 473<br>474.5 | 8/18 | SS-4 | | WELL GRADED SAND W/ GRAVEL (SW)<br>Predominately fine grained, dry, non plastic<br>(7.5 yr 6/3), Light brown | PID= 0.8 |
| | 475<br>476.3 | 8/15 | SS-5 | | | PID=1.0 |
| | 477<br>478.5 | 12/18 | SS-6 | | POORLY GRADED SAND (SP)<br>(7.5 yr 6/3) Light Brown, dry, medium grained, non plastic | PID= .15<br>Added 570-575 casing |
| | 479<br>480.4 | 8/17 | SS-7 | | | PID=1.1<br>Odor in cuttings, not noticed in sampl |
| | 481<br>482.5 | 8/18 | SS-8 | | | PID=1.3 |
| | 483<br>484.5 | 12/18 | SS-9 | | Some dark staining, 483' | PID=2.8<br>Odor in sample |
| | 485<br>486.5 | 7/18 | SS-10 | | WELL GRADED SAND (SW)<br>(7.5 yr 6/3) Light brown, predominately fine grained, dry, non plastic | PID= 1.0 |
| | 487 | 2/16 | SS-11 | | | PID=.8<br>Broke Sand Catcher |

| PROJECT NUMBER | BORING NUMBER | |
|---|---|---|
| 376920.05.02.01 | KAFB-10628 | SHEET 10 OF 10 |

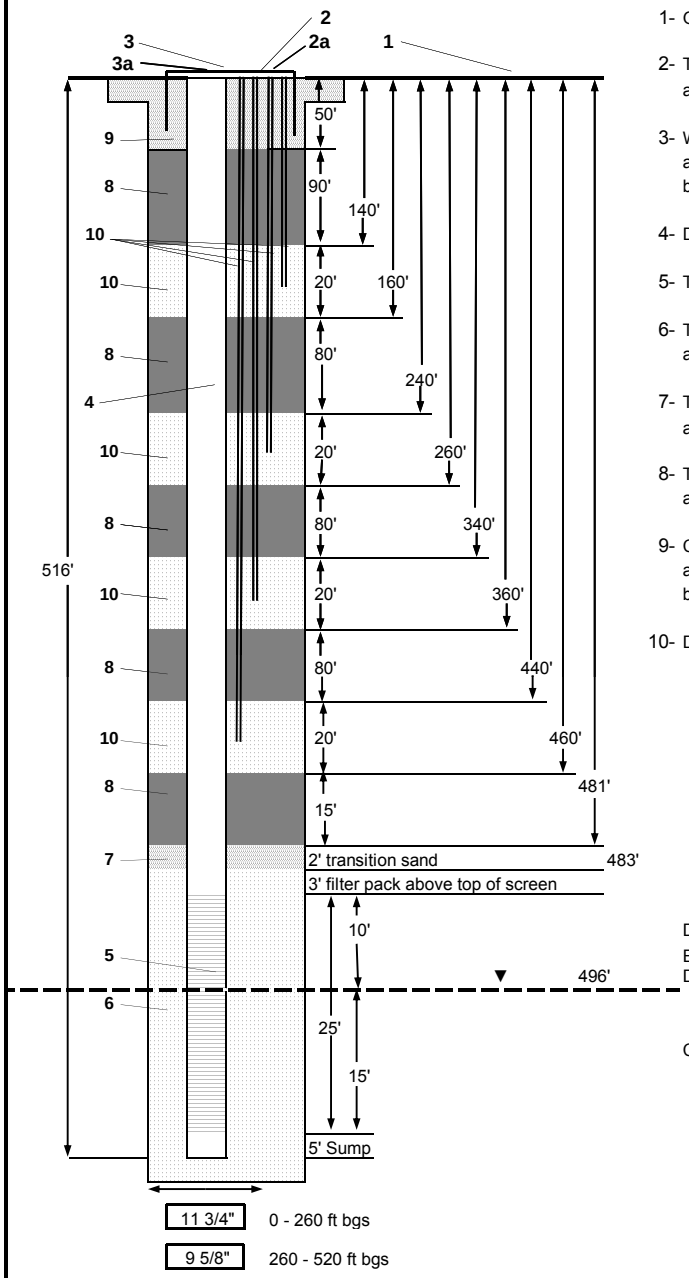
# SOIL BORING LOG

| | | | |
|---|---|---|---|
| PROJECT : | ST 106 | LOCATION : | NMED 6 |
| ELEVATION : | TBD | COORDINATES : | |
| DRILLING METHOD AND EQUIPMENT USED : | Arch | DRILLING CONTRACTOR : | WDC |
| WATER LEVEL : | START : 5/5/10 9:00 | END : | LOGGER : W. Conway |

| DEPTH BELOW SURFACE (FT) INTERVAL (FT) | RECOVERY (FT) | NUMBER AND TYPE | STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N) | SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS: DEPTH OF CASING, DRILLING RATE, TESTS, INSTRUMENTATION, SAMPLE ID, AND ORGANIC VAPOR READING (PID) |
|---|---|---|---|---|---|
| 489 – 490.3 | 7/15 | SS-12 | | WELL GRADED SAND (SW) (7.5 yr 5/3), Brown, predominately coarse grained, non plastic, light petroleum odor | PID=.2 |
| 491 – 792.3 | 5/15 | SS-13 | | WELL GRADED SAND W/ GRAVEL (SW) (7.5 yr 5/4), Brown, predominately medium grained, non plastic, moist | PID=.4 |
| 493 – 494.4 | 4/15 | SS-14 | | POORLY GRADED GRAVEL W/ SAND (GP) Wet, fine grained, Note: color is color of gravel, smokey quartz to K span | PID=2.3 Water at 495' |
| 495 – 496.4 | 4/15 | SS-15 | | POORLY GRADED GRAVEL W/ SAND (GP) Wet, fine grained, Note: color is color of gravel, smokey quartz to K span | PID=.8 |
| 497 – 498.4 | 10/15 | SS-16 | | WELL GRADED SAND (SW) (7.5 yr 3/3), Dark brown, predominately medium grained, non plastic, wet, strc petroleum odor | PID=1376 |
| 499 – 500.4 | 3/15 | SS-17 | | WELL GRADED SAND (SW) (7.5 yr 3/3), Dark brown, predominately medium grained, non plastic, wet, strc petroleum odor | PID=0.0 |
| 500 – 510 | | Grab | | WELL GRADED SAND (SW) (7.5 yr 4/3) Brown, predominately medium grained, non plastic, wet | PID= 0.0 |
| 510 – 520 | | | | WELL GRADED SAND (SW) (7.5 yr 4/3) Brown, predominately mec grained, non plastic, wet | |

| CH2MHILL | PROJECT NUMBER | WELL NUMBER **KAFB-10628** SHEET 1 OF 1 |
|---|---|---|
| | | **WELL COMPLETION DIAGRAM** |

PROJECT : KAFB Bulk Fuels Facility, LOCATION : USS Bullhead Park
DRILLING CONTRACTOR : WDC Exploration & Wells COORDINATES : TBD
DRILLING METHOD AND EQUIPMENT USED : Air Rotary Casing Hammer, Speedstar 30K DRILLER: Lee Alymer
WATER LEVEL : 496' START : 5/4/2010 END : 5/16/2010 LOGGER : W.Conway and M.Brislen

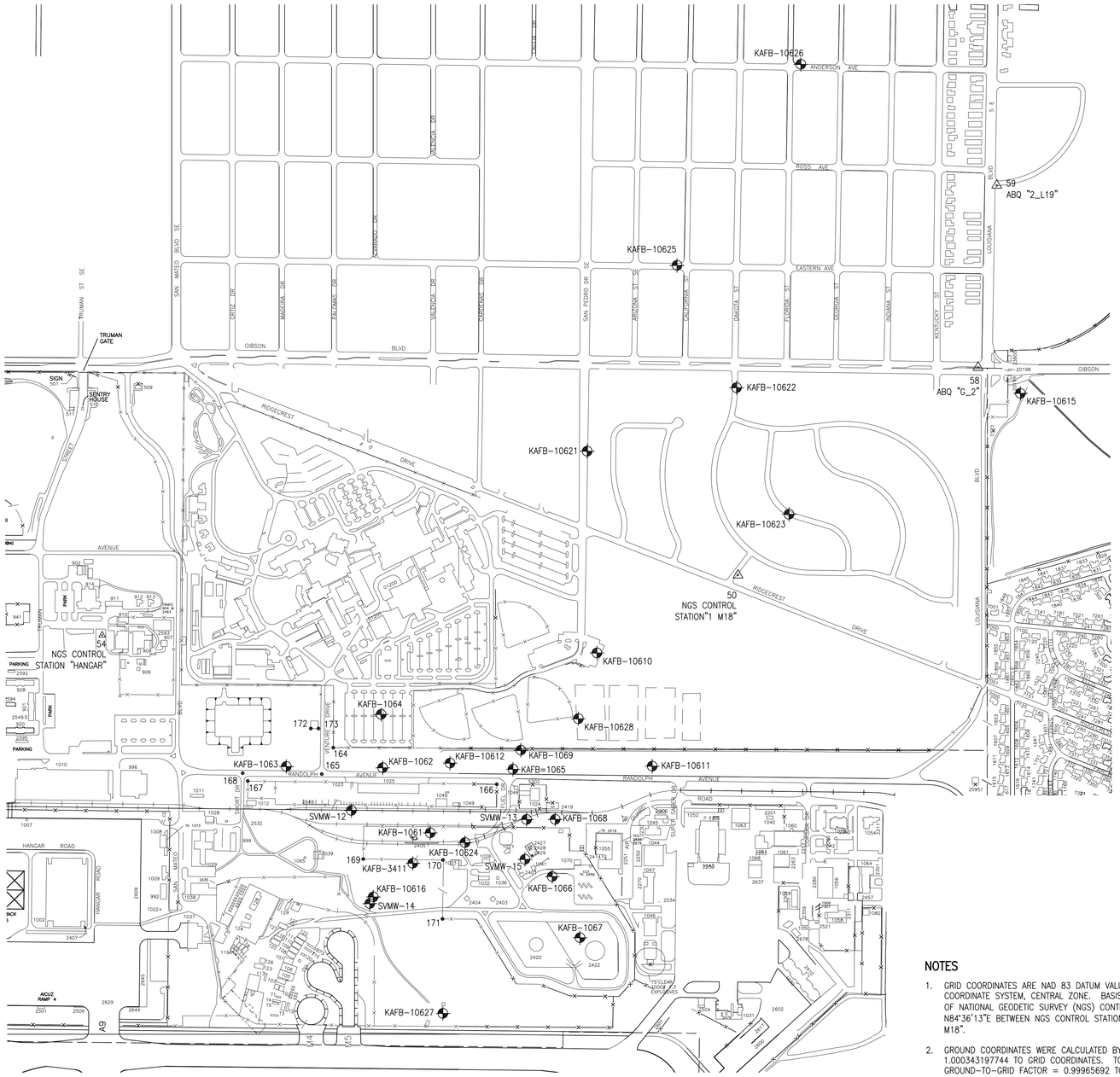



Not to scale

| | |
|---|---|
| 1- Ground elevation at well | TBD |
| 2- Top of casing elevation | Surface elevation |
| a) vent hole? | no |
| 3- Wellhead protection cover type | Surface completion |
| a) weep hole? | no |
| b) concrete pad dimensions | 4' x 4' |
| 4- Dia./type of well casing | 4" schedule 80 PVC |
| 5- Type/slot size of screen | Stainless Steel 0.010" slot |
| 6- Type screen filter | 10-20 Colorado Silica Sand |
| a) thickness installed | |
| 7- Transition sand | 20-40 Colorado Silica Sand |
| a) thickness installed | |
| 8- Type of seal | Hydrated bentonite chips |
| a) thickness installed | |
| 9- Cement | |
| a) Cement mix used | portland cement grout |
| b) thickness installed | 50' (from ground surface to 50' bgs) |
| 10- Dia./type of vapor wells | 3/4" PVC vapor wells to be installed with 2.5' of 0.050" slot PVC screen and 8-16 Colorado Silica Sand filter pack. Installed at 450' bgs, 350' bgs, 250' bgs, and 150' bgs. Vapor wells will be spaced in well vault at ground surface with at least 1" of clearance between vapor well groundwater monitoring well. WDC indicated building a metal plate to aid well spacing in the vault. |
| Development method | None expected |
| Estimated purge volume | |
| Development time | |

Comments: Borehole drilled to 520' bgs.
All depths below ground surface.

Well vault will need to be of suffiecient size for access to all wells




# SURVEY OF
# MONITORING WELLS
# BULK FUELS FACILITY (ST-106)
# KIRTLAND AIR FORCE BASE

BERNALILLO COUNTY, NEW MEXICO

MAY, 2010

## GROUND COORDINATES

### MONITORING WELLS SURVEYED 5/5/2006

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 107 | 1,474,088.0363 | 1,541,888.8345 | 5344.19 | KAFB-1061 PVC |
| 106 | 1,474,088.5827 | 1,541,888.8474 | 5344.98 | KAFB-1061 CASING |
| 104 | 1,474,089.4495 | 1,541,888.5214 | 5341.76 | KAFB-1061 NG |
| 105 | 1,474,088.6696 | 1,541,888.6361 | 5342.14 | KAFB-1061 CONCRETE |
| 108 | 1,473,914.3024 | 1,542,508.9250 | 5347.09 | SVMW-15 CASING |
| 109 | 1,473,915.9121 | 1,542,509.0615 | 5347.08 | SVMW-15 NG |
| 110 | 1,474,175.6449 | 1,542,520.5833 | 5347.90 | SVMW-13 CASING |
| 111 | 1,474,177.1230 | 1,542,520.2909 | 5347.63 | SVMW-13 NG |
| 112 | 1,474,235.0292 | 1,541,372.6299 | 5340.28 | SVMW-12 CASING |
| 113 | 1,474,236.1306 | 1,541,372.6422 | 5340.25 | SVMW-12 NG |
| 114 | 1,473,625.5848 | 1,541,492.8330 | 5339.38 | SVMW-14 CASING |
| 115 | 1,473,627.1528 | 1,541,492.8356 | 5339.10 | SVMW-14 NG |
| 119 | 1,473,888.6775 | 1,541,774.4440 | 5343.29 | KAFB-3411 PVC |
| 118 | 1,473,889.0073 | 1,541,774.3633 | 5343.67 | KAFB-3411 CASING |
| 116 | 1,473,890.1425 | 1,541,774.2250 | 5340.30 | KAFB-3411 NG |
| 117 | 1,473,889.0886 | 1,541,774.0957 | 5340.72 | KAFB-3411 CONCRETE |
| 121 | 1,474,522.6436 | 1,540,946.3106 | 5339.55 | KAFB-1063 PVC |
| 120 | 1,474,523.1044 | 1,540,946.2907 | 5340.25 | KAFB-1063 CASING |
| 123 | 1,474,524.3176 | 1,540,946.3981 | 5337.40 | KAFB-1063 NG |
| 122 | 1,474,523.2589 | 1,540,946.4360 | 5337.45 | KAFB-1063 CONCRETE |
| 127 | 1,474,514.7727 | 1,541,578.3275 | 5341.82 | KAFB-1062 PVC |
| 126 | 1,474,515.0899 | 1,541,578.4150 | 5342.23 | KAFB-1062 CASING |
| 124 | 1,474,516.7674 | 1,541,578.4773 | 5339.69 | KAFB-1062 NG |
| 125 | 1,474,515.3529 | 1,541,578.3440 | 5340.12 | KAFB-1062 CONCRETE |
| 130 | 1,474,864.0870 | 1,541,567.3785 | 5345.47 | KAFB-1064 PVC |
| 129 | 1,474,864.4108 | 1,541,567.4979 | 5345.80 | KAFB-1064 CASING |
| 128 | 1,474,867.2384 | 1,541,567.4958 | 5343.03 | KAFB-1064 ASPHALT |
| 131 | 1,474,864.6573 | 1,541,567.5482 | 5343.10 | KAFB-1064 CONCRETE |

### MONITORING WELLS SURVEYED 2/21/2007

| | | | | |
|---|---|---|---|---|
| 180 | 1,474,504.5202 | 1,542,430.6855 | 5346.59 | KAFB-1065 PVC |
| 181 | 1,474,504.7331 | 1,542,430.6848 | 5346.96 | KAFB-1065 CASING |
| 182 | 1,474,504.9422 | 1,542,430.6771 | 5343.98 | KAFB-1065 CONCRETE |
| 183 | 1,474,506.5072 | 1,542,430.8488 | 5343.83 | KAFB-1065 NG |

### MONITORING WELLS SURVEYED 5/19/2008

| | | | | |
|---|---|---|---|---|
| 204 | 1,473,801.9593 | 1,542,687.4539 | 5351.38 | KAFB-1066 PVC |
| 205 | 1,473,802.1103 | 1,542,687.4239 | 5351.55 | KAFB-1066 CASING |
| 206 | 1,473,802.2153 | 1,542,687.4119 | 5348.93 | KAFB-1066 CONCRETE |
| 207 | 1,473,803.9293 | 1,542,687.2599 | 5348.49 | KAFB-1066 NG |
| 200 | 1,473,401.1623 | 1,542,869.4129 | 5349.41 | KAFB-1067 PVC |
| 201 | 1,473,401.2173 | 1,542,869.3879 | 5349.69 | KAFB-1067 CASING |
| 202 | 1,473,401.3643 | 1,542,869.4239 | 5344.91 | KAFB-1067 CONCRETE |
| 203 | 1,473,403.1393 | 1,542,869.6699 | 5344.21 | KAFB-1067 NG |
| 196 | 1,474,176.3263 | 1,542,707.2449 | 5351.67 | KAFB-1068 PVC |
| 197 | 1,474,176.5573 | 1,542,707.1849 | 5351.84 | KAFB-1068 CASING |
| 198 | 1,474,176.6623 | 1,542,707.0819 | 5349.01 | KAFB-1068 CONCRETE |
| 199 | 1,474,178.3823 | 1,542,707.1239 | 5348.66 | KAFB-1068 NG |
| 192 | 1,474,629.7653 | 1,542,482.1449 | 5344.34 | KAFB-1069 PVC |
| 193 | 1,474,630.1703 | 1,542,482.2249 | 5344.88 | KAFB-1069 CASING |
| 194 | 1,474,631.7053 | 1,542,482.1729 | 5344.81 | KAFB-1069 CONCRETE |
| 195 | 1,474,631.8233 | 1,542,482.1479 | 5344.75 | KAFB-1069 NG |
| 208 | 1,475,266.8613 | 1,542,980.1899 | 5343.20 | KAFB-10610 PVC |
| 209 | 1,475,267.2453 | 1,542,980.3139 | 5343.44 | KAFB-10610 CASING |
| 210 | 1,475,268.6913 | 1,542,980.7059 | 5343.39 | KAFB-10610 CONCRETE |
| 211 | 1,475,268.6943 | 1,542,980.7049 | 5343.39 | KAFB-10610 ASPHALT |

### MONITORING WELLS SURVEYED 11/16/2009

| | | | | |
|---|---|---|---|---|
| 216 | 1,474,025.0914 | 1,542,116.4684 | 5343.35 | KAFB-10624 PVC |
| 217 | 1,474,025.3142 | 1,542,116.4614 | 5343.63 | KAFB-10624 CASING |
| 218 | 1,474,025.3658 | 1,542,116.4706 | 5343.59 | KAFB-10624 CONCRETE |
| 219 | 1,474,027.0437 | 1,542,116.5919 | 5343.55 | KAFB-10624 NG |
| 220 | 1,473,669.2767 | 1,541,515.7017 | 5342.34 | KAFB-10616 PVC |
| 221 | 1,473,669.6486 | 1,541,515.7597 | 5342.45 | KAFB-10616 CASING |
| 222 | 1,473,669.9272 | 1,541,515.7100 | 5339.48 | KAFB-10616 CONCRETE |
| 223 | 1,473,671.4613 | 1,541,515.7522 | 5339.13 | KAFB-10616 NG |
| 224 | 1,474,545.7247 | 1,542,018.4249 | 5345.31 | KAFB-10612 PVC |
| 225 | 1,474,546.0334 | 1,542,018.5463 | 5345.49 | KAFB-10612 CASING |
| 226 | 1,474,546.3052 | 1,542,018.4521 | 5342.73 | KAFB-10612 CONCRETE |
| 227 | 1,474,547.7185 | 1,542,018.4151 | 5342.24 | KAFB-10612 NG |
| 228 | 1,474,525.7227 | 1,543,342.2560 | 5353.01 | KAFB-10611 PVC |
| 229 | 1,474,525.8940 | 1,543,342.3215 | 5353.16 | KAFB-10611 CASING |
| 230 | 1,474,526.0397 | 1,543,342.2533 | 5350.46 | KAFB-10611 CONCRETE |
| 231 | 1,474,527.6462 | 1,543,342.2966 | 5350.02 | KAFB-10611 NG |
| 232 | 1,476,968.3094 | 1,545,753.0683 | 5342.31 | KAFB-10615 PVC |
| 233 | 1,476,968.5871 | 1,545,752.9418 | 5342.54 | KAFB-10615 CASING |
| 234 | 1,476,968.6744 | 1,545,752.7833 | 5339.99 | KAFB-10615 CONCRETE |
| 235 | 1,476,970.0445 | 1,545,752.0967 | 5339.61 | KAFB-10615 NG |
| 236 | 1,476,588.9829 | 1,542,916.4412 | 5314.31 | KAFB-10621 PVC |
| 237 | 1,476,589.4096 | 1,542,916.4872 | 5314.59 | KAFB-10621 CASING |
| 238 | 1,476,589.4397 | 1,542,916.4968 | 5314.45 | KAFB-10621 CONCRETE |
| 239 | 1,476,590.0148 | 1,542,916.4808 | 5314.40 | KAFB-10621 ASPHALT |
| 240 | 1,477,005.3224 | 1,543,894.6746 | 5318.02 | KAFB-10622 PVC |
| 241 | 1,477,005.6971 | 1,543,894.7330 | 5318.34 | KAFB-10622 CASING |
| 242 | 1,477,005.8748 | 1,543,894.7262 | 5318.18 | KAFB-10622 ASPHALT |
| 243 | 1,476,176.1860 | 1,544,238.0822 | 5328.43 | KAFB-10623 PVC |
| 244 | 1,476,176.5574 | 1,544,238.2766 | 5328.78 | KAFB-10623 CASING |
| 245 | 1,476,176.7461 | 1,544,238.2843 | 5328.81 | KAFB-10623 ASPHALT |

### MONITORING WELLS SURVEYED 05/21/2010

| | | | | |
|---|---|---|---|---|
| 4887 | 1,472,906.3514 | 1,541,971.6123 | 5348.36 | KAFB-10627 PVC |
| 4888 | 1,472,906.6098 | 1,541,971.5217 | 5348.65 | KAFB-10627 CASING |
| 4889 | 1,472,906.7331 | 1,541,971.4329 | 5345.63 | KAFB-10627 CONC. |
| 4890 | 1,472,908.3955 | 1,541,971.2911 | 5345.46 | KAFB-10627 NG |
| 4891 | 1,474,836.3800 | 1,542,859.0056 | 5348.75 | KAFB-10628-510 PVC |
| 4892 | 1,474,836.2868 | 1,542,858.6850 | 5348.60 | KAFB-10628-150 PVC |
| 4893 | 1,474,836.5391 | 1,542,858.7694 | 5348.50 | KAFB-10628-250 PVC |
| 4894 | 1,474,836.6497 | 1,542,858.9511 | 5348.41 | KAFB-10628-350 PVC |
| 4895 | 1,474,836.6493 | 1,542,859.1406 | 5348.36 | KAFB-10628-450 PVC |
| 4896 | 1,474,836.8281 | 1,542,858.8236 | 5349.03 | KAFB-10628 NR/CONC. |
| 4897 | 1,4748.38.3673 | 1,542,858.7328 | 5348.99 | KAFB-10628 NG/CONC. |
| 4898 | 1,477,806.2749 | 1,543,504.8599 | 5317.05 | KAFB-10625 PVC |
| 4899 | 1,477,806.5147 | 1,543,504.9227 | 5317.31 | KAFB-10625 N.RIM |
| 4900 | 1,477,808.1885 | 1,543,505.0691 | 5317.35 | KAFB-10625 CONC/ASPH |
| 4901 | 1,479,123.5411 | 1,544,315.3072 | 5322.39 | KAFB-10626 PVC |
| 4902 | 1,479,123.9535 | 1,544,315.2396 | 5322.63 | KAFB-10626 N.RIM |
| 4903 | 1,479,125.3221 | 1,544,315.0909 | 5322.58 | KAFB-10626 CONC/ASPH |

## GRID COORDINATES

### MONITORING WELLS SURVEYED 5/5/2006

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 107 | 1,473,582.3062 | 1,541,359.8433 | 5344.19 | KAFB-1061 PVC |
| 106 | 1,473,582.8524 | 1,541,359.8562 | 5344.98 | KAFB-1061 CASING |
| 104 | 1,473,583.7189 | 1,541,359.5303 | 5341.76 | KAFB-1061 NG |
| 105 | 1,473,582.9393 | 1,541,359.6449 | 5342.14 | KAFB-1061 CONCRETE |
| 108 | 1,473,408.6319 | 1,541,979.7210 | 5347.09 | SVMW-15 CASING |
| 109 | 1,473,410.2410 | 1,541,979.8575 | 5347.08 | SVMW-15 NG |
| 110 | 1,473,669.8847 | 1,541,991.3753 | 5347.90 | SVMW-13 CASING |
| 111 | 1,473,671.3623 | 1,541,991.0830 | 5347.63 | SVMW-13 NG |
| 112 | 1,473,729.2486 | 1,540,843.8158 | 5340.28 | SVMW-12 CASING |
| 113 | 1,473,730.3497 | 1,540,843.8281 | 5340.25 | SVMW-12 NG |
| 114 | 1,473,120.0133 | 1,540,963.9776 | 5339.38 | SVMW-14 CASING |
| 115 | 1,473,121.5808 | 1,540,963.9802 | 5339.10 | SVMW-14 NG |
| 119 | 1,473,383.0158 | 1,541,245.4920 | 5343.29 | KAFB-3411 PVC |
| 118 | 1,473,383.3455 | 1,541,245.4114 | 5343.67 | KAFB-3411 CASING |
| 116 | 1,473,384.4803 | 1,541,245.2731 | 5340.30 | KAFB-3411 NG |
| 117 | 1,473,383.4267 | 1,541,245.1438 | 5340.72 | KAFB-3411 CONCRETE |
| 121 | 1,474,016.7644 | 1,540,417.6427 | 5339.55 | KAFB-1063 PVC |
| 120 | 1,474,017.2250 | 1,540,417.6228 | 5340.25 | KAFB-1063 CASING |
| 123 | 1,474,018.4378 | 1,540,417.7302 | 5337.40 | KAFB-1063 NG |
| 122 | 1,474,017.3795 | 1,540,417.7681 | 5337.45 | KAFB-1063 CONCRETE |
| 127 | 1,474,008.8962 | 1,541,049.4428 | 5341.82 | KAFB-1062 PVC |
| 126 | 1,474,009.3132 | 1,541,049.5303 | 5342.23 | KAFB-1062 CASING |
| 124 | 1,474,010.8902 | 1,541,049.5926 | 5339.69 | KAFB-1062 NG |
| 125 | 1,474,009.4762 | 1,541,049.4593 | 5340.12 | KAFB-1062 CONCRETE |
| 130 | 1,474,358.0906 | 1,541,038.4976 | 5345.47 | KAFB-1064 PVC |
| 129 | 1,474,358.4143 | 1,541,038.6169 | 5345.80 | KAFB-1064 CASING |
| 128 | 1,474,361.2409 | 1,541,038.6148 | 5343.03 | KAFB-1064 ASPHALT |
| 131 | 1,474,358.6607 | 1,541,038.6672 | 5343.10 | KAFB-1064 CONCRETE |

### MONITORING WELLS SURVEYED 2/21/2007

| | | | | |
|---|---|---|---|---|
| 180 | 1,473,998.6472 | 1,541,901.5085 | 5346.59 | KAFB-1065 PVC |
| 181 | 1,473,998.8600 | 1,541,901.5077 | 5346.96 | KAFB-1065 CASING |
| 182 | 1,473,999.0690 | 1,541,901.5000 | 5343.98 | KAFB-1065 CONCRETE |
| 183 | 1,474,000.6335 | 1,541,901.6716 | 5343.83 | KAFB-1065 NG |

### MONITORING WELLS SURVEYED 5/19/2008

| | | | | |
|---|---|---|---|---|
| 204 | 1,473,296.3273 | 1,542,158.1887 | 5351.38 | KAFB-1066 PVC |
| 205 | 1,473,296.4782 | 1,542,158.1587 | 5351.55 | KAFB-1066 CASING |
| 206 | 1,473,296.5832 | 1,542,158.1467 | 5348.93 | KAFB-1066 CONCRETE |
| 207 | 1,473,298.2966 | 1,542,157.9947 | 5348.49 | KAFB-1066 NG |
| 200 | 1,472,895.6678 | 1,542,340.0852 | 5349.41 | KAFB-1067 PVC |
| 201 | 1,472,895.7228 | 1,542,340.0602 | 5349.69 | KAFB-1067 CASING |
| 202 | 1,472,895.8697 | 1,542,340.0962 | 5344.91 | KAFB-1067 CONCRETE |
| 203 | 1,472,897.6441 | 1,542,340.3421 | 5344.21 | KAFB-1067 NG |
| 196 | 1,473,670.5658 | 1,542,177.9729 | 5351.67 | KAFB-1068 PVC |
| 197 | 1,473,670.7968 | 1,542,177.9129 | 5351.84 | KAFB-1068 CASING |
| 198 | 1,473,670.9017 | 1,542,177.8099 | 5349.01 | KAFB-1068 CONCRETE |
| 199 | 1,473,672.6211 | 1,542,177.8519 | 5348.66 | KAFB-1068 NG |
| 192 | 1,474,123.8493 | 1,541,952.9501 | 5344.34 | KAFB-1069 PVC |
| 193 | 1,474,124.2541 | 1,541,953.0301 | 5344.88 | KAFB-1069 CASING |
| 194 | 1,474,125.7886 | 1,541,952.9781 | 5344.81 | KAFB-1069 CONCRETE |
| 195 | 1,474,125.9066 | 1,541,952.9531 | 5344.75 | KAFB-1069 NG |
| 208 | 1,474,760.7267 | 1,542,450.8242 | 5343.20 | KAFB-10610 PVC |
| 209 | 1,474,761.1106 | 1,542,450.9482 | 5343.44 | KAFB-10610 CASING |
| 210 | 1,474,762.4561 | 1,542,451.3400 | 5343.39 | KAFB-10610 CONCRETE |
| 211 | 1,474,762.5591 | 1,542,451.3390 | 5343.39 | KAFB-10610 ASPHALT |

### MONITORING WELLS SURVEYED 11/16/2009

| | | | | |
|---|---|---|---|---|
| 216 | 1,473,519.3828 | 1,541,587.3991 | 5343.35 | KAFB-10624 PVC |
| 217 | 1,473,519.6055 | 1,541,587.3921 | 5343.63 | KAFB-10624 CASING |
| 218 | 1,473,519.6571 | 1,541,587.4013 | 5343.59 | KAFB-10624 CONCRETE |
| 219 | 1,473,521.3345 | 1,541,587.5225 | 5343.55 | KAFB-10624 NG |
| 220 | 1,473,163.6902 | 1,540,986.8385 | 5342.34 | KAFB-10616 PVC |
| 221 | 1,473,164.0620 | 1,540,986.8964 | 5342.45 | KAFB-10616 CASING |
| 222 | 1,473,164.3405 | 1,540,986.8468 | 5339.48 | KAFB-10616 CONCRETE |
| 223 | 1,473,165.8740 | 1,540,986.8889 | 5339.13 | KAFB-10616 NG |
| 224 | 1,474,039.8375 | 1,541,489.3892 | 5345.31 | KAFB-10612 PVC |
| 225 | 1,474,040.1461 | 1,541,489.5105 | 5345.49 | KAFB-10612 CASING |
| 226 | 1,474,040.4178 | 1,541,489.4164 | 5342.73 | KAFB-10612 CONCRETE |
| 227 | 1,474,041.8306 | 1,541,489.3794 | 5342.24 | KAFB-10612 NG |
| 228 | 1,474,019.8424 | 1,542,812.7661 | 5353.01 | KAFB-10611 PVC |
| 229 | 1,474,020.0136 | 1,542,812.8316 | 5353.16 | KAFB-10611 CASING |
| 230 | 1,474,020.1593 | 1,542,812.7634 | 5350.46 | KAFB-10611 CONCRETE |
| 231 | 1,474,021.7652 | 1,542,812.8067 | 5350.02 | KAFB-10611 NG |
| 232 | 1,476,461.5911 | 1,545,222.7513 | 5342.31 | KAFB-10615 PVC |
| 233 | 1,476,461.8687 | 1,545,222.6248 | 5342.54 | KAFB-10615 CASING |
| 234 | 1,476,461.9559 | 1,545,222.4664 | 5339.99 | KAFB-10615 CONCRETE |
| 235 | 1,476,463.3256 | 1,545,221.7800 | 5339.61 | KAFB-10615 NG |
| 236 | 1,476,082.3947 | 1,542,387.0974 | 5314.31 | KAFB-10621 PVC |
| 237 | 1,476,082.8213 | 1,542,387.1434 | 5314.59 | KAFB-10621 CASING |
| 238 | 1,476,082.8513 | 1,542,387.1530 | 5314.45 | KAFB-10621 CONCRETE |
| 239 | 1,476,083.4263 | 1,542,387.1370 | 5314.40 | KAFB-10621 ASPHALT |
| 240 | 1,476,498.5914 | 1,543,364.9952 | 5318.02 | KAFB-10622 PVC |
| 241 | 1,476,498.9659 | 1,543,365.0536 | 5318.34 | KAFB-10622 CASING |
| 242 | 1,476,499.1436 | 1,543,365.0468 | 5318.18 | KAFB-10622 ASPHALT |
| 243 | 1,475,669.7394 | 1,543,708.2850 | 5328.43 | KAFB-10623 PVC |
| 244 | 1,475,670.1107 | 1,543,708.4793 | 5328.78 | KAFB-10623 CASING |
| 245 | 1,475,670.2993 | 1,543,708.4870 | 5328.81 | KAFB-10623 ASPHALT |

### MONITORING WELLS SURVEYED 05/21/2010

| | | | | |
|---|---|---|---|---|
| 4887 | 1,472,401.0267 | 1,541,442.5927 | 5348.36 | KAFB-10627 PVC |
| 4888 | 1,472,401.2850 | 1,541,442.5021 | 5348.65 | KAFB-10627 CASING |
| 4889 | 1,472,401.4083 | 1,541,442.4133 | 5345.63 | KAFB-10627 CONC. |
| 4890 | 1,472,403.0701 | 1,541,442.2716 | 5345.46 | KAFB-10627 NG |
| 4891 | 1,474,330.3931 | 1,542,329.6815 | 5348.75 | KAFB-10628-510 PVC |
| 4892 | 1,474,330.3000 | 1,542,329.3610 | 5348.60 | KAFB-10628-150 PVC |
| 4893 | 1,474,330.5522 | 1,542,329.4454 | 5348.50 | KAFB-10628-250 PVC |
| 4894 | 1,474,330.6627 | 1,542,329.6271 | 5348.41 | KAFB-10628-350 PVC |
| 4895 | 1,474,330.6623 | 1,542,329.8165 | 5348.36 | KAFB-10628-450 PVC |
| 4896 | 1,474,330.8411 | 1,542,329.4996 | 5349.03 | KAFB-10628 NR/CONC. |
| 4897 | 1,474,332.3798 | 1,542,329.4088 | 5348.99 | KAFB-10628 NG/CONC. |
| 4898 | 1,477,299.2691 | 1,542,975.3143 | 5317.05 | KAFB-10625 PVC |
| 4899 | 1,477,299.5088 | 1,542,975.3770 | 5317.31 | KAFB-10625 N.RIM |
| 4900 | 1,477,301.1821 | 1,542,975.5234 | 5317.35 | KAFB-10625 CONC/ASPH |
| 4901 | 1,478,616.0834 | 1,543,785.4835 | 5322.39 | KAFB-10626 PVC |
| 4902 | 1,478,616.4957 | 1,543,785.4159 | 5322.63 | KAFB-10626 N.RIM |
| 4903 | 1,478,617.8638 | 1,543,785.2673 | 5322.58 | KAFB-10626 CONC/ASPH |

## LEGEND

- CONTROL POINT
- MONITORING WELL
- SITE IMPROVEMENT POINTS

## NOTES

1. GRID COORDINATES ARE NAD 83 DATUM VALUES BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE. BASIS OF COORDINATES ARE PUBLISHED VALUES OF NATIONAL GEODETIC SURVEY (NGS) CONTROL STATION "HANGAR" AND BEARING N84°36'13"E BETWEEN NGS CONTROL STATION "HANGAR" AND NGS CONTROL STATION "1 M18".
2. GROUND COORDINATES WERE CALCULATED BY APPLYING GRID-TO-GROUND FACTOR = 1.000343197744 TO GRID COORDINATES. TO OBTAIN GRID COORDINATES APPLY GROUND-TO-GRID FACTOR = 0.99965692 TO GROUND COORDINATES.
3. ELEVATIONS ARE NAVD 88 DATUM VALUES BASED ON NGS CONTROL STATION "HANGAR", ELEVATION = 5,343.43 FEET. GPS/RTK METHODS AND GEOID99 MODEL WERE USED TO DETERMINE ELEVATIONS OF ALL SURVEYED POINTS.
4. DRAWING COORDINATES ARE GROUND, NAD83 DATUM.
5. MONITORING WELL KAFB-1065 WAS ADDED TO THE DRAWING ON 2/21/2007. ORIGINAL SURVEY WAS DATED 5/5/2006.
6. MONITORING WELLS KAFB-1066, KAFB-1067, KAFB-1068, KAFB-1069 AND KAFB-10610 WERE ADDED TO DRAWING ON 5/19/2008.
7. MONITORING WELLS KAFB-10611, KAFB-10612, KAFB-10615, KAFB-10615, KAFB-10616, KAFB-10621, KAFB-10622, KAFB-10623 AND KAFB-10624 WERE ADDED TO THE DRAWING ON 11/16/2009.
8. MONITORING WELLS KAFB-10625, KAFB-10626, KAFB-10627 AND KAFB-10628 WERE ADDED TO THE DRAWING ON 05/21/2010.

## CONTROL POINTS

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 50 | 1,475,776.5261 | 1,543,904.0041 | 5340.01 | NGS 1 M18 |
| 54 | 1,475,383.2253 | 1,539,740.5499 | 5343.43 | NGS HANGAR |
| 58 | 1,477,137.2462 | 1,545,476.0769 | 5337.43 | ABQ "G_2" |
| 59 | 1,478,330.7497 | 1,545,598.4449 | 5339.76 | ABQ "2_L19" |
| 60 | 1,480,708.2824 | 1,534,917.7646 | 5319.34 | ABQ "14_L17" |

## SITE IMPROVEMENT POINTS

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 164 | 1,474,646.7881 | 1,541,253.4136 | 5340.93 | F_COR |
| 165 | 1,474,473.2461 | 1,541,177.6105 | 5339.58 | C/L |
| 166 | 1,474,406.4650 | 1,542,324.9798 | | WALL |
| 167 | 1,474,427.4386 | 1,540,692.6270 | | WALL |
| 168 | 1,474,479.4725 | 1,540,659.4196 | 5336.76 | C/L |
| 169 | 1,473,916.2225 | 1,541,449.3822 | 5340.00 | F_COR |
| 170 | 1,473,910.2427 | 1,541,971.9330 | 5343.64 | F_COR |
| 171 | 1,473,524.1169 | 1,541,968.3346 | 5343.47 | F_COR |
| 172 | 1,474,771.9681 | 1,541,105.8894 | | BLDG. 1190 CORNER |
| 173 | 1,474,771.6295 | 1,541,156.1182 | | BLDG. 1190 CORNER |

## CONTROL POINTS

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 50 | 1,475,270.2167 | 1,543,374.3215 | 5340.01 | NGS 1 M18 |
| 54 | 1,474,877.0508 | 1,539,212.2957 | 5343.43 | NGS HANGAR |
| 58 | 1,476,630.4470 | 1,544,945.855 | 5337.43 | ABQ "G_2" |
| 59 | 1,477,823.564 | 1,545,068.181 | 5339.76 | ABQ "2_L19" |
| 60 | 1,480,200.281 | 1,534,391.165 | 5319.34 | ABQ "14_L17" |

## SITE IMPROVEMENT POINTS

| Pnt. # | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 164 | 1,474,140.8663 | 1,540,724.6404 | 5340.93 | F_COR |
| 165 | 1,473,967.3838 | 1,540,648.8633 | 5339.58 | C/L |
| 166 | 1,473,900.6256 | 1,541,795.8389 | | WALL |
| 167 | 1,473,921.5920 | 1,540,164.0462 | | WALL |
| 168 | 1,473,973.6081 | 1,540,130.8502 | 5336.76 | C/L |
| 169 | 1,473,410.5513 | 1,540,920.5417 | 5340.00 | F_COR |
| 170 | 1,473,404.5736 | 1,541,442.9133 | 5343.64 | F_COR |
| 171 | 1,473,018.5802 | 1,541,439.3161 | 5343.47 | F_COR |
| 172 | 1,474,266.0034 | 1,540,577.1668 | | BLDG. 1190 CORNER |
| 173 | 1,474,265.6649 | 1,540,627.3783 | | BLDG. 1190 CORNER |

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO NO. 10464 VLADIMIR JIRIK

VLADIMIR JIRIK, NMPS NO. 10464

MAY 26, 2010
DATE

SHEET 1 OF 1

26033MW-2-05-26-2010

*Plat & Survey By:*
*ALBUQUERQUE SURVEYING CO. INC., 2119 Menaul Blvd. N.E., Albuquerque, New Mexico 87107 Ph. (505) 884-2036*

# ATTACHMENT 3

## OFFICE OF THE STATE ENGINEER DOCUMENTATION

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| POD NUMBER (WELL NUMBER) | OSE FILE NUMBER(S) |
|---|---|
| POD 70 KAFB 10626 | RG-1579 |
| WELL OWNER NAME(S): KIRTLAND AIR FORCE BASE- ENVIROMENTAL MANAGEMENT | PHONE (OPTIONAL): 505-853-3484 |
| WELL OWNER MAILING ADDRESS: 2050 WYOMING BLVD KIRTLAND AIR FORCE BASE | CITY: ALBUQUERQUE STATE: NM ZIP: 87117 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 35 | 3 | 49.00 | N |
| LONGITUDE | 106 | 34 | 23.00 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

**2. OPTIONAL**

| (2.5 ACRE) | (10 ACRE) | (40 ACRE) | (160 ACRE) | SECTION | TOWNSHIP ☐ NORTH ☐ SOUTH | RANGE ☐ EAST ☐ WEST |
|---|---|---|---|---|---|---|
| ¼ | ¼ | ¼ | ¼ | | | |

| SUBDIVISION NAME | LOT NUMBER | BLOCK NUMBER | UNIT/TRACT |
|---|---|---|---|
| | | | |

| HYDROGRAPHIC SURVEY | MAP NUMBER | TRACT NUMBER |
|---|---|---|
| | | |

**3. DRILLING INFORMATION**

| LICENSE NUMBER | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1210 | BRYAN NYDOSKE | WDC EXPLORATION & WELLS |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 4-14-10 | 5-23-10 | 491 | 510 | |

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☑ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

| DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | CASING MATERIAL | CONNECTION TYPE (CASING) | INSIDE DIA. CASING (IN) | CASING WALL THICKNESS (IN) | SLOT SIZE (IN) |
|---|---|---|---|---|---|---|---|
| 0 | 200 | 12" | PVC | Flush | 4" | 80 | RISER |
| 200 | 466 | 10" | PVC | Flush | 4" | 80 | RISER |
| 466 | 486 | 10" | PVC | Flush | 4" | 80 | 010 |
| 486 | 491 | 10" | PVC | Flush | 4" | 80 | SUMP |

**4. WATER BEARING STRATA**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | YIELD (GPM) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | TOTAL ESTIMATED WELL YIELD (GPM) |
|---|---|
| | |

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 1 OF 2 |

# NEW MEXICO OFFICE OF THE STATE ENGINEER
# PERMIT TO EXPLORE
# CONDITIONS OF APPROVAL

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the following conditions of approval:

**Permittee:** Kirtland Air Force Base
377 MSG/CEANR
2050 Wyoming Blvd., SE
Kirtland Air Force Base, NM 87117-5720

**Permit Number:** RG-1579

**Application File Date:** March 30, 2010

**Point of Diversion:** RG-1579 POD70 (KAFB-10626) located at Latitude 35 deg., 03 min., 49.22 sec.; Longitude 106 deg., 34 min., 22.82 sec.

1. No water shall be appropriated and beneficially used under this permit.

2. Well RG-1579 POD70 shall be drilled by a driller licensed in the State of New Mexico in accordance with 19.27.4 NMAC.

3. A complete and properly executed Well Record on the form provided by the State Engineer shall be filed within 10 days after the well is drilled.

4. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

5. Well RG-1579 POD70 (KAFB-10626) shall be plugged upon completion of permitted use, and a plugging report shall be filed with the State Engineer within 10 days after the well is plugged.

6. Water shall be used from well RG-1579 POD70 (KAFB-10626) for monitoring purposes only unless and until a permit for a specific use has been issued by the State Engineer.

7. RG-1579 POD70 (KAFB-10626) must be completed and the Well Record filed on or before April 15, 2011.

Witness my hand and seal this 8th day of April, 2010.

John R. D'Antonio, Jr., P.E., State Engineer

By: _____
Doug Crosby
Water Resource Specialist, District 1

**5. SEAL AND PUMP**

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

| ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|---|
| | 50 | 409.3 | 12 & 10 | 20 % SOLID VOLCLAY GROUT | 206 CF. | TRIMMIED |
| | 409.3 | 461.9 | 10 | 3/8 BENTONITE CHIP | 20 CF | TRIMMIED |
| | 461.9 | 510 | 10 | 10/20 & 20/40 SAND | 18 CF | TRIMMIED |

**6. GEOLOGIC LOG OF WELL**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? |
|---|---|---|---|---|
| | | | See Attached | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☑ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

**7. TEST & ADDITIONAL INFO**

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

**8. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER DATE

FOR OSE INTERNAL USE WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 2 OF 2 |

H/-46625
$15.00

File Number: 86-1505
POD 70

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT TO DRILL A MONITORING WELL

**1. APPLICANT:**

Name: Kirtland Air Force Base-Environmental Management Work Phone: 505/853-3484
Contact: Wayne Bitner 377MSG/CEANR Home Phone: 505/853-3484
Address: 2050 Wyoming Blvd, SE
Kirtland Air Force Base
City: Albuquerque State: NM Zip: 87117-5720

**2. LOCATION OF WELL (A, B, C, or D required, E or F if known):**

A. ___1/4 ___1/4 ___1/4 Section:___ Township:___ Range:___ N.M.P.M. in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant. U.S.G.S. Quad Map _____

C. Latitude: 35 d 03 m 49.22 Longitude: 106 d 34 m 22.82 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD 83 (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Kirtland Air Force Base

**3. WELL INFORMATION:**

Approximate depth 495 feet; Outside diameter of casing 4 inches.
Name of well driller and driller license number Mark Green, NMWD1210

**4. ADDITIONAL STATEMENT OR EXPLANATIONS:**

Diagram showing proposed well completion details is attached.
Well will be used for groundwater monitoring at Kirtland AFB.
Drilling is scheduled to begin on 12 April 2010.
Monitoring well will be in service for a minimum of five years.
Well ID = KAFB-10626.

File Number: _____ Trn Number: _____
Form: wr-07 page 1 of 2

File Number: _____

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT TO DRILL AN EXPLORATORY WELL

### ACKNOWLEDGEMENT FOR NATURAL PERSONS

(I, We) KIRTLAND AFB affirm that the
(Please Print)

foregoing statements are true to the best of my knowledge and belief.

Applicant Signature _____ Applicant Signature _____

### ACTION OF STATE ENGINEER

This application is approved/~~denied/partially approved~~ provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare, and further subject to the following conditions: _____

SEE ATTACHED
CONDITIONS OF APPROVAL

Witness my hand and seal this 8th day of April, 2010

[illegible], State Engineer

By: [illegible]

File Number: _____ Trn Number: _____

Form: wr-07 page 2 of 2

CH2MHILL

| PROJECT NUMBER | WELL NUMBER KAFB-10626 | SHEET 1 OF 1 |
|---|---|---|

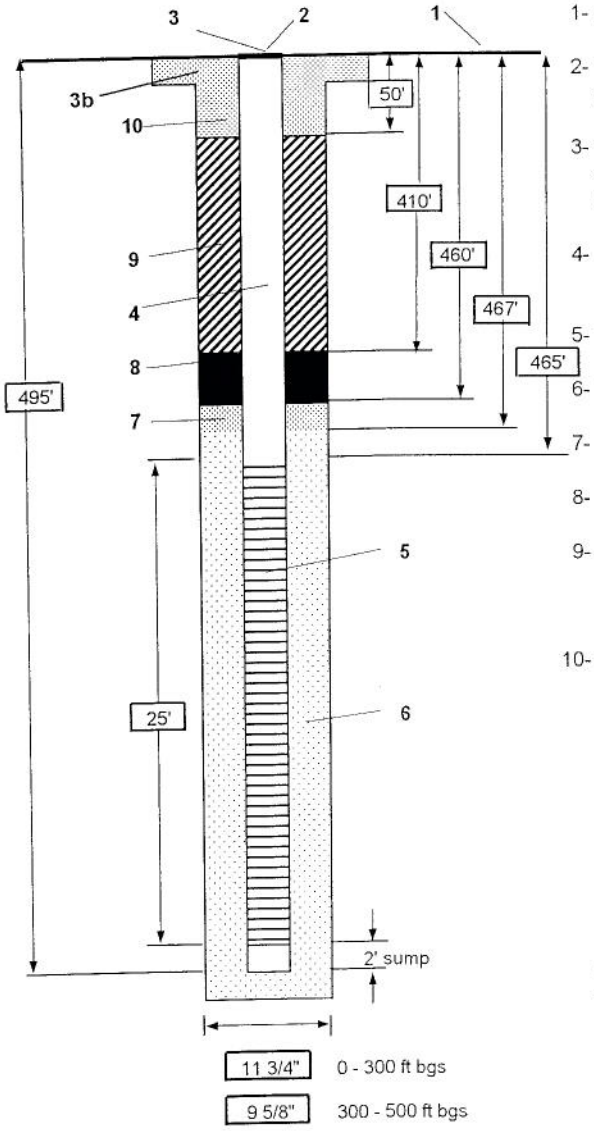
# PROPOSED WELL COMPLETION DIAGRAM

PROJECT : ST-106 KAFB Bulk Fuels Facility LOCATION : Intersection of Anderson SE and Florida SE

DRILLING CONTRACTOR : WDC Exploration & Wells COORDINATES :

DRILLING METHOD AND EQUIPMENT USED : Air Rotary Casing Hammer, Speedstar 30K

WATER LEVEL : approximately 470' bgs START : END : LOGGER :




| | |
|---|---|
| 1- Ground elevation at well | TBD |
| 2- Top of casing elevation | TBD |
| a) vent hole? | no |
| 3- Wellhead protection cover type | 12" dia. steel vault, flush mount |
| a) weep hole? | no |
| b) concrete pad dimensions | 4' x 4' |
| 4- Dia./type of well casing | 4" schedule 80 PVC |
| 5- Type/slot size of screen | stainless steel 0.010" slot |
| 6- Type screen filter | 10/20 Colorado Silica Sand |
| 7- Transition sand | 20/40 Colorado Silica Sand |
| 8- Type of seal | hydrated bentonite chips |
| 9- Grout | |
| a) Grout mix used | volclay bentonite grout |
| b) Method of placement | |
| 10- Cement | |
| a) Cement mix used | portland cement grout |
| b) Method of placement | |
| Development method | |
| Estimated purge volume | |

Comments

Not to scale

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| POD NUMBER (WELL NUMBER) | OSE FILE NUMBER(S) |
|---|---|
| POD 71 KAFB 10627 | RG-1579 |
| WELL OWNER NAME(S): KIRTLAND AIR FORCE BASE- ENVIROMENTAL MANAGEMENT | PHONE (OPTIONAL): 505-853-3484 |
| WELL OWNER MAILING ADDRESS: 2050 WYOMING BLVD KIRTLAND AIR FORCE BASE | CITY: ALBUQUERQUE STATE: NM ZIP: 87117 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 35 | 2 | 47.00 | N |
| LONGITUDE | 106 | 34 | 51.00 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

**2. OPTIONAL**

| (2.5 ACRE) | (10 ACRE) | (40 ACRE) | (160 ACRE) | SECTION | TOWNSHIP ☐ NORTH ☐ SOUTH | RANGE ☐ EAST ☐ WEST |
|---|---|---|---|---|---|---|
| ¼ | ¼ | ¼ | ¼ | | | |

| SUBDIVISION NAME | LOT NUMBER | BLOCK NUMBER | UNIT/TRACT |
|---|---|---|---|
| | | | |

| HYDROGRAPHIC SURVEY | MAP NUMBER | TRACT NUMBER |
|---|---|---|
| | | |

**3. DRILLING INFORMATION**

| LICENSE NUMBER | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1210 | BRYAN NYDOSKE | WDC EXPLORATION & WELLS |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 4-29-10 | 5-6-10 | 506 | 530 | |

STATIC WATER LEVEL IN COMPLETED WELL (FT):

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☑ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

| DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | CASING MATERIAL | CONNECTION TYPE (CASING) | INSIDE DIA. CASING (IN) | CASING WALL THICKNESS (IN) | SLOT SIZE (IN) |
|---|---|---|---|---|---|---|---|
| 0 | 200 | 12" | PVC | Flush | 4" | 80 | RISER |
| 200 | 481 | 10" | PVC | Flush | 4" | 80 | RISER |
| 481 | 501 | 10" | PVC | Flush | 4" | 80 | 010 |
| 501 | 506 | 10" | PVC | Flush | 4" | 80 | SUMP |

**4. WATER BEARING STRATA**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | YIELD (GPM) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | TOTAL ESTIMATED WELL YIELD (GPM) |
|---|---|
| | |

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 1 OF 2 |

**5. SEAL AND PUMP**

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

| ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|---|
| | 50 | 427 | 12 & 10 | 20 % SOLID VOLCLAY GROUT | 2140 GAL. | TRIMMIED |
| | 427 | 477 | 10 | 3/8 BENTONITE CHIP | 42 CF | TRIMMIED |
| | 477 | 530 | 10 | 10/20 & 20/40 SAND | 20 CF | TRIMMIED |

**6. GEOLOGIC LOG OF WELL**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? |
|---|---|---|---|---|
| | | | See Attached | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☑ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

**7. TEST & ADDITIONAL INFO**

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

**8. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER DATE

FOR OSE INTERNAL USE WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 2 OF 2 |

Kl-466 25
$15.00

File Number: RA-1576
PoD 71

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT TO DRILL A MONITORING WELL

**1. APPLICANT:**

Name: Kirtland Air Force Base-Environmental Management Work Phone: 505/853-3484
Contact: Wayne Bitner 377MSG/CEANR Home Phone: 505/853-3484
Address: 2050 Wyoming Blvd, SE
Kirtland Air Force Base
City: Albuquerque State: NM Zip: 87117-5720

**2. LOCATION OF WELL (A, B, C, or D required, E or F if known):**

A. ___1/4 ___1/4 ___1/4 Section:___ Township:___ Range:___ N.M.P.M. in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant. U.S.G.S. Quad Map _____

C. Latitude: 35 d 03 m 08.75 Longitude: 106 d 34 m 40.20 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD 83 (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Kirtland Air Force Base

**3. WELL INFORMATION:**

Approximate depth 515 feet; Outside diameter of casing 4 inches.
Name of well driller and driller license number Mark Green, NMWD1210

**4. ADDITIONAL STATEMENT OR EXPLANATIONS:**

Diagram showing proposed well completion details is attached.
Well will be used for groundwater monitoring at Kirtland AFB.
Drilling is scheduled to begin on 12 April 2010.
Monitoring well will be in service for a minimum of five years.
Well ID = KAFB-10627.

2010 MAR 30 PM 1:25

File Number: _____ Trn Number: _____
Form: wr-07

File Number: _____

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT TO DRILL AN EXPLORATORY WELL

### ACKNOWLEDGEMENT FOR NATURAL PERSONS

(I, We) KIRTLAND AFB (Please Print) affirm that the foregoing statements are true to the best of my knowledge and belief.

Applicant Signature _____ Applicant Signature _____.

### ACTION OF STATE ENGINEER

This application is approved/~~denied/partially approved~~ provided it is not exercised to the ~~detriment of~~ any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare, and further subject to the following conditions: _____

SEE ATTACHED
CONDITIONS OF APPROVAL

Witness my hand and seal this 8th day of April, 20 10

_____, State Engineer

By: _____

File Number: _____ Trn Number: _____

Form: wr-07

CH2MHILL

PROJECT NUMBER

WELL NUMBER KAFB-10627

SHEET 1 OF 1

# PROPOSED WELL COMPLETION DIAGRAM

PROJECT : KAFB Bulk Fuels Facility, TO-96 Drilling

LOCATION : Bullhead Park

DRILLING CONTRACTOR :

COORDINATES :

DRILLER:

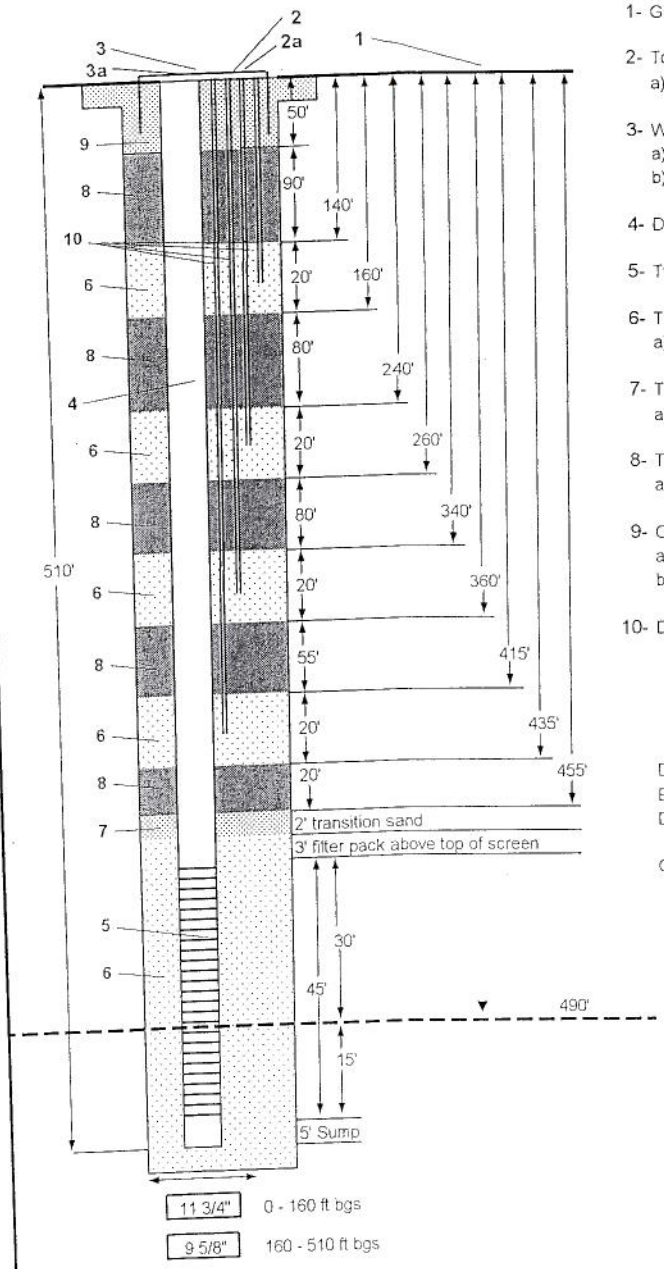
DRILLING METHOD AND EQUIPMENT USED :

LOGGER :

WATER LEVEL : approximate 490'

START :

END :




Not to scale

1- Ground elevation at well: TBD

2- Top of casing elevation: surface elevation
a) vent hole?: no

3- Wellhead protection cover type: surface completion
a) weep hole?: no
b) concrete pad dimensions: 4' x 4'

4- Dia./type of well casing: 4" schedule 80 PVC

5- Type/slot size of screen: Stainless Steel 0.010" slot

6- Type screen filter: 10/20 Colorado Silica Sand
a) thickness installed:

7- Transition sand: 20/40 Colorado Silica Sand
a) thickness installed:

8- Type of seal: hydrated bentonite chips
a) thickness installed:

9- Cement
a) Cement mix used: portland cement grout
b) thickness installed: 50' (from ground surface to 50' bgs)

10- Dia./type of vapor tubing: 1/4" tubing with vapor sampling ports vapor monitoring points to be installed at 425' bgs, 350' bgs, 250' bgs, and 150' bgs

Development method:
Estimated purge volume:
Development time:

Comments: Borehole drilled to 515' bgs.
All depths below ground surface.
Construction details based on 490' bgs depth to water

# NEW MEXICO OFFICE OF THE STATE ENGINEER
# PERMIT TO EXPLORE
# CONDITIONS OF APPROVAL

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the following conditions of approval:

**Permittee:** Kirtland Air Force Base
377 MSG/CEANR
2050 Wyoming Blvd., SE
Kirtland Air Force Base, NM 87117-5720

**Permit Number:** RG-1579

**Application File Date:** March 30, 2010

**Point of Diversion:** RG-1579 POD71 (KAFB-10627) located at Latitude 35 deg., 03 min., 08.75 sec.; Longitude 106 deg., 34 min., 40.20 sec.

1. No water shall be appropriated and beneficially used under this permit.

2. RG-1579 POD71 (KAFB-10627) shall be drilled by a driller licensed in the State of New Mexico in accordance with 19.27.4 NMAC.

3. A complete and properly executed Well Record on the form provided by the State Engineer shall be filed within 10 days after the well is drilled.

4. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

5. RG-1579 POD71 (KAFB-10627) shall be plugged upon completion of permitted use, and a plugging report shall be filed with the State Engineer within 10 days after the well is plugged.

6. Water shall be used from well RG-1579 POD71 (KAFB-10627) for monitoring purposes only unless and until a permit for a specific use has been issued by the State Engineer.

7. RG-1579 POD71 (KAFB-10627) must be completed and the Well Record filed on or before April 15, 2011.

Witness my hand and seal this 8th day of April, 2010.

John R. D'Antonio, Jr., P.E., State Engineer

By: _____
Doug Crosby
Water Resource Specialist, District 1

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| POD NUMBER (WELL NUMBER) | OSE FILE NUMBER(S) |
|---|---|
| POD 72 KAFB 10628 | RG-1579 |
| WELL OWNER NAME(S): KIRTLAND AIR FORCE BASE- ENVIROMENTAL MANAGEMENT | PHONE (OPTIONAL): 505-853-3484 |
| WELL OWNER MAILING ADDRESS: 2050 WYOMING BLVD KIRTLAND AIR FORCE BASE | CITY: ALBUQUERQUE STATE: NM ZIP: 87117 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 35 | 3 | 7.00 | N |
| LONGITUDE | 106 | 34 | 40.00 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

**2. OPTIONAL**

| (2.5 ACRE) | (10 ACRE) | (40 ACRE) | (160 ACRE) | SECTION | TOWNSHIP ☐ NORTH ☐ SOUTH | RANGE ☐ EAST ☐ WEST |
|---|---|---|---|---|---|---|
| ¼ | ¼ | ¼ | ¼ | | | |

| SUBDIVISION NAME | LOT NUMBER | BLOCK NUMBER | UNIT/TRACT |
|---|---|---|---|
| | | | |

| HYDROGRAPHIC SURVEY | MAP NUMBER | TRACT NUMBER |
|---|---|---|
| | | |

**3. DRILLING INFORMATION**

| LICENSE NUMBER | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1210 | BRYAN NYDOSKE | WDC EXPLORATION & WELLS |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 5-5-10 | 5-16-10 | 516 | 518 | 496 |

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 496

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☑ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

| DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | CASING MATERIAL | CONNECTION TYPE (CASING) | INSIDE DIA. CASING (IN) | CASING WALL THICKNESS (IN) | SLOT SIZE (IN) |
|---|---|---|---|---|---|---|---|
| 0 | 260 | 12" | PVC | Flush | 4" | 80 | RISER |
| 260 | 486 | 10" | PVC | Flush | 4" | 80 | RISER |
| 486 | 511 | 10" | SS | Flush | 4" | 80 | 010 |
| 511 | 516 | 10" | SS | Flush | 4" | 80 | SUMP |

**4. WATER BEARING STRATA**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | YIELD (GPM) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | TOTAL ESTIMATED WELL YIELD (GPM) |
|---|---|
| | |

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 1 OF 2 |

**5. SEAL AND PUMP**

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

| ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) FROM | DEPTH (FT) TO | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|---|
| | | | | SEE ATTACHED | | |
| | | | | | | |
| | | | | | | |

**6. GEOLOGIC LOG OF WELL**

| DEPTH (FT) FROM | DEPTH (FT) TO | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? |
|---|---|---|---|---|
| | | | See Attached | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☑ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
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| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |
| | | | | ☐ YES ☐ NO |

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

**7. TEST & ADDITIONAL INFO**

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

**8. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER DATE

FOR OSE INTERNAL USE WELL RECORD & LOG (Version 6/9/08)

| FILE NUMBER | POD NUMBER | TRN NUMBER |
|---|---|---|
| LOCATION | | PAGE 2 OF 2 |

1-46625
$15.00

File Number: 86-4579 APPENDIX E ATTACHMENT 3

POD 72

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT TO DRILL A MONITORING WELL

**1. APPLICANT:**

Name: Kirtland Air Force Base-Environmental Management Work Phone: 505/853-3484
Contact: Wayne Bitner 377MSG/CEANR Home Phone: 505/853-3484
Address: 2050 Wyoming Blvd, SE
Kirtland Air Force Base
City: Albuquerque State: NM Zip: 87117-5720

**2. LOCATION OF WELL (A, B, C, or D required, E or F if known):**

A. ___1/4 ___1/4 ___1/4 Section:___ Township:___ Range:___ N.M.P.M. in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant. U.S.G.S. Quad Map _____

C. Latitude: 35 d 03 m 06.61 Longitude: 106 d 34 m 40.04 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD 83 (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Kirtland Air Force Base

**3. WELL INFORMATION:**

Approximate depth 515 feet; Outside diameter of casing 4 inches.
Name of well driller and driller license number Mark Green, NMWD1210

**4. ADDITIONAL STATEMENT OR EXPLANATIONS:**

Diagram showing proposed well completion details is attached.
Well will be used for groundwater monitoring at Kirtland AFB.
Drilling is scheduled to begin on 12 April 2010.
Monitoring well will be in service for a minimum of five years.
Well ID = KAFB-10628.

File Number: _____ Trn Number: _____
Form: wr-07 page 1 of 2

# NEW MEXICO OFFICE OF THE STATE ENGINEER
## APPLICATION FOR PERMIT
## TO DRILL AN EXPLORATORY WELL

### ACKNOWLEDGEMENT FOR NATURAL PERSONS

(I, We) KIRTLAND AFB affirm that the
(Please Print)
foregoing statements are true to the best of my knowledge and belief.

Applicant Signature _____ Applicant Signature _____.

### ACTION OF STATE ENGINEER

This application is approved/~~denied/partially approved~~ provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare, and further subject to the following conditions: _____

SEE ATTACHED
CONDITIONS OF APPROVAL

Witness my hand and seal this 8th day of April, 20 10

JOHN E. D'ANTONIO, JR. P.E.
STATE ENGINEER _____, State Engineer

By: _____

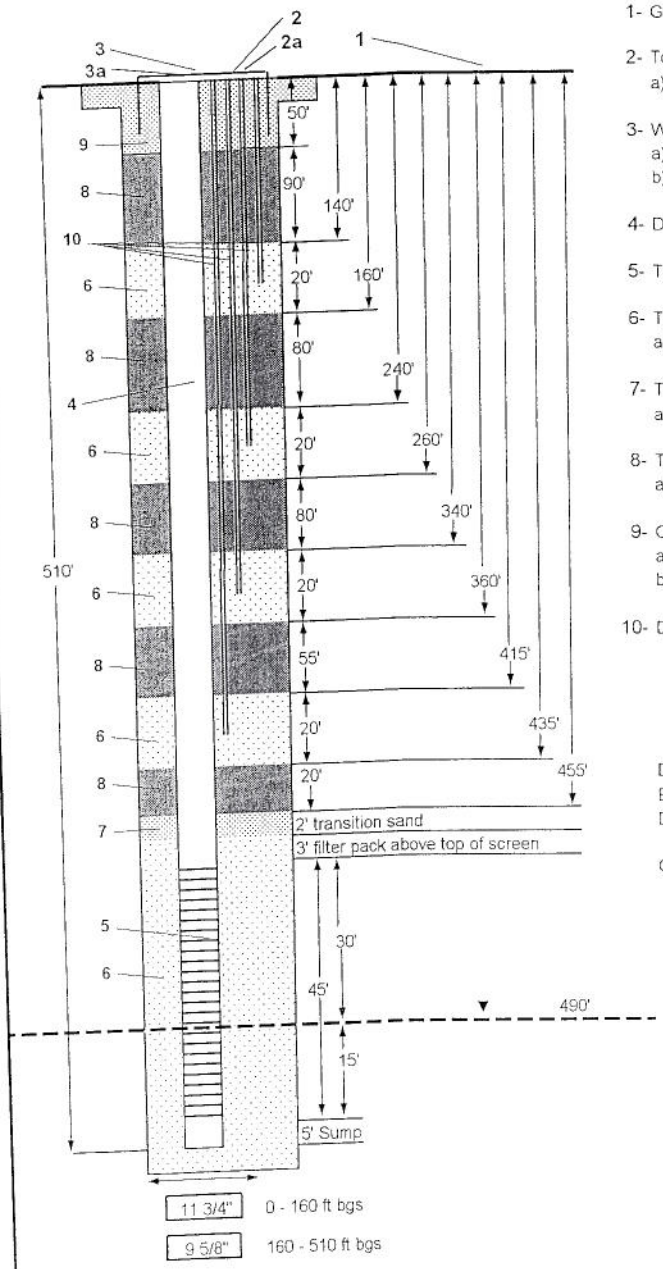
CH2MHILL

PROJECT NUMBER

WELL NUMBER KAFB-10628 SHEET 1 OF 1

# PROPOSED WELL COMPLETION DIAGRAM

PROJECT : KAFB Bulk Fuels Facility, TO-96 Drilling
LOCATION : Bullhead Park
DRILLING CONTRACTOR :
COORDINATES :
DRILLING METHOD AND EQUIPMENT USED :
DRILLER:
WATER LEVEL : approximate 490'
START :
END :
LOGGER :




Not to scale

| | |
|---|---|
| 1- Ground elevation at well | TBD |
| 2- Top of casing elevation | surface elevation |
| a) vent hole? | no |
| 3- Wellhead protection cover type | surface completion |
| a) weep hole? | no |
| b) concrete pad dimensions | 4' x 4' |
| 4- Dia./type of well casing | 4" schedule 80 PVC |
| 5- Type/slot size of screen | Stainless Steel 0.010" slot |
| 6- Type screen filter | 10/20 Colorado Silica Sand |
| a) thickness installed | |
| 7- Transition sand | 20/40 Colorado Silica Sand |
| a) thickness installed | |
| 8- Type of seal | hydrated bentonite chips |
| a) thickness installed | |
| 9- Cement | |
| a) Cement mix used | portland cement grout |
| b) thickness installed | 50' (from ground surface to 50' bgs) |
| 10- Dia./type of vapor tubing | 1/4" tubing with vapor sampling ports vapor monitoring points to be installed at 425' bgs, 350' bgs, 250' bgs, and 150' bgs |
| Development method | |
| Estimated purge volume | |
| Development time | |

Comments: Borehole drilled to 515' bgs.
All depths below ground surface.
Construction details based on 490' bgs depth to water

# NEW MEXICO OFFICE OF THE STATE ENGINEER
# PERMIT TO EXPLORE
# CONDITIONS OF APPROVAL

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the following conditions of approval:

**Permittee:** Kirtland Air Force Base
377 MSG/CEANR
2050 Wyoming Blvd., SE
Kirtland Air Force Base, NM 87117-5720

**Permit Number:** RG-1579

**Application File Date:** March 30, 2010

**Point of Diversion:** RG-1579 POD72 (KAFB-106268) located at Latitude 35 deg., 03 min., 49.22 sec.; Longitude 106 deg., 34 min., 22.82 sec.

1. No water shall be appropriated and beneficially used under this permit.

2. RG-1579 POD72 (KAFB-106268) shall be drilled by a driller licensed in the State of New Mexico in accordance with 19.27.4 NMAC.

3. A complete and properly executed Well Record on the form provided by the State Engineer shall be filed within 10 days after the well is drilled.

4. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

5. RG-1579 POD72 (KAFB-106268) shall be plugged upon completion of permitted use, and a plugging report shall be filed with the State Engineer within 10 days after the well is plugged.

6. Water shall be used from well RG-1579 POD72 (KAFB-106268) for monitoring purposes only unless and until a permit for a specific use has been issued by the State Engineer.

7. RG-1579 POD72 (KAFB-106268) must be completed and the Well Record filed on or before April 15, 2011.

Witness my hand and seal this 8th day of April, 2010.

John R. D'Antonio, Jr., P.E., State Engineer

By: _____
Doug Crosby
Water Resource Specialist, District 1

# ATTACHMENT 4

# INVESTIGATION-DERIVED WASTE DISPOSAL DOCUMENTATION

**CH2M HILL**
4041 Jefferson Plaza NE
Suite 200
Albuquerque, NM 87109
**Tel 505.884.5600**
**Fax 505.883.7507**

June 17, 2010

VIA EMAIL

Mr. Steve Kitt
377 MSG/CEANC
2050 Wyoming Boulevard SE
Kirtland AFB, NM 87117-5270

Reference: AFCEE Contract No. FA8903-04-D-8670 / Task Order No. 313
AFCEE Contract No. FA8903-08-D-8769 / Task Order No. 096

Subject: Disposal of Soil Drill Cuttings - Monitoring Wells KAFB-10626, KAFB-10627, and KAFB-10628, Bulk Fuels Facility, Kirtland AFB, NM

Dear Mr. Kitt:

CH2M HILL is requesting permission to dispose of soil drill cuttings into the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The soil was generated and subsequently analyzed as discussed below.

During the spring of 2010, CH2M HILL conducted drilling operations in association with the ongoing investigation at the Bulk Fuels Facility. Drilling operations completed three monitoring wells during April and May of 2010. Drilling activities generated approximately 120 cubic yards of soil which are stored in six 20-cubic yard roll-off containers. Soil contamination was not anticipated in the soil from monitoring wells KAFB-10626 and KAFB-10627; the drilling locations were located away from the source area. Monitoring well KAFB-10628 was drilled inside the current estimated plume boundary at Bulk Fuels Facility where soil contamination was possible. One composite sample was collected from the cuttings from each of the three monitoring wells. The composite soil samples were analyzed for Toxic Characteristic Leaching Procedures (TCLP) semi-volatile organic compounds (SVOCs), TCLP volatile organic compounds (VOCs), TCLP herbicides, TCLP pesticides, TCLP metals, Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO), TPH Gasoline Range Organics (GRO), and ignitability analysis.

Table 1 presents a summary of the reportable concentrations from the analyses of the composite samples collected from the KAFB-10626, KAFB-10627, and KAFB-10628 monitoring well drill cuttings. Low concentrations of arsenic, barium, cadmium, chromium, TPH DRO, heptachlor, and tetrachloroethene were detected in the samples but were orders of magnitude below TCLP regulatory levels.

Please review the attached analytical data and determine if the soil is suitable for disposal at the Kirtland AFB C&D landfill. Two of the roll-off dumpsters are owned by Rinchem and are roll-off numbers are 104056, and 22027. The other four dumpsters are owned by MCT Waste, leased to

Rinchem, these are numbered A20-029, A20-023, A20-062 and A20-077. Upon receiving notification of Kirtland AFB's acceptance of the soil, CH2M HILL will coordinate receipt of the landfill pass with Chugach and transport of the soil with Rinchem.

Should you have any questions regarding this request please feel free to contact me at 884-5600. Thank you for your assistance.

Sincerely,
CH2M HILL

Todd Arrowood
Project Consultant

Attachments:
Table 1: Summary of Reportable Concentrations for Drill Cuttings Analyses from Monitoring Well KAFB-10626, KAFB-10627, and KAFB-10628, KAFB Bulk Fuels Facility, Kirtland AFB, NM.

c: Mr. Mark Holmes/377 MSG/CEANR
Ms. Sharon Minchak/CH2M HILL ABQ Office

Table 1: Summary of Reportable Concentrations for Drill Cuttings Analyses from Monitoring Wells KAFB-10626, KAFB-10627, and KAFB-10628,
KAFB Bulk Fuels Facility, Kirtland AFB, New Mexico

| **Chemical Class** (units) and Laboratory Method | **Analyte** | **Drilling Location, Sample ID, Sample Date** | | |
|---|---|---|---|---|
| | | Monitoring Well 10626 | Monitoring Well 10627 | Monitoring Well 10628 |
| | | ST106-IDW-10626 | ST106-IDW-10627 | ST106-IDW-10628 |
| **TCLP Metals** (mg/L) EPA Method 6010_TCLP | Arsenic | 0.0426 J | 0.0593 J | 0.062 J |
| | Barium | 0.752 | 0.534 E | 0.61 |
| | Cadmium | 0.05 U | 0.0115 J | 0.0114 J |
| | Chromium | 0.00761 J | 0.007 J | 0.00874 J |
| **TCLP Pesticides_TCLP** (mg/L) EPA Method 8081 | Heptachlor | 0.000031 JPB | 0.000011 U | 0.000017 JPB |
| **TCLP Volatiles** (mg/L) EPA Method 8260_TCLP | Tetrachloroethene | 0.005 U | 0.005 U | 0.0045 J |
| **Total Petroleum Hydrocarbons** (mg/kg) EPA Method 8015 | Diesel Range Organics | 4 J | 3.6 J | 4.7 J |

Data Qualifiers: J -- Estimated result. Result is less than reporting limit.
B -- Analyte found in blank as well as sample, possible contamination of sample
E -- Serial Dilution percent difference not within control limits. Concentration should be considered estimated.
P -- Difference of detected concentration > 25% between two GC columns
U -- Analyte not detected above reporting limit.

# PEL a division of Spectrum Analytical, Inc.

featuring HANIBAL TECHNOLOGY

**TEST REPORT**

| | | | |
|---|---|---|---|
| Florida | # E84207 | California | # 07253CA |
| Texas | # T104704408-08A-TX | Louisiana | # 02025 |
| South Carolina | # 96011001 | Kansas | # E-10385 |
| North Dakota | # R-178 | Arkansas | # 09-031-0 |

| | |
|---|---|
| Customer Name: | CH2M Hill |
| Date and Time Received: | 5/19/2010 8:40:00 AM |
| Date Reported: | 5/26/2010 |
| Laboratory Submission Number/SDG: | 2515963 |
| Project: | ST106-TO96 |

The submission consisted of 3 samples with sample identification shown in the attached data tables.

The samples were analyzed for the methods listed on the attached table of contents. See the attached data tables for results.

Distribution of Report to:

CH2M Hill
Attn: Daniel Moore
Phone: W (314)421-0313
F (414)454-8704

Respectfully Submitted,

Brian Spann
Laboratory Director
PEL a division of Spectrum Analytical, Inc.

Soil samples are reported on dry weight basis, unless otherwise noted.

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our Letters and reports apply to the sample tested and are not necessarily indicative of the quali of apparently identical or similar materials. This report shall not be reproduced except in full without written approval from PEL.

8405 Benjamin Road, Suite A• Tampa, Florida 33634
813-888-9507• FAX: 813-889-7128
Website: www.pelab.com

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# EXECUTIVE SUMMARY - Detection Highlights

## 2515963

**SAMPLE ID:** ST106-1DW-10626

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| Arsenic | 0.0426 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| Barium | 0.752 | 0.100 | MG/L | SW6010B TCLP TCLP |
| Chromium | 0.00761 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| TPH C10-C28 | 4 J | 5.6 | MG/KG | SW8015C-E |
| Heptachlor | 0.000031 JPB | 0.00011 | MG/L | SW8081A TCLP SPLP |
| pH | 8.39 | 0 | pH | SW9045 |

**SAMPLE ID:** ST106-1DW-10627

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| Arsenic | 0.0593 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| Barium | 0.534 E | 0.100 | MG/L | SW6010B TCLP TCLP |
| Cadmium | 0.0115 J | 0.0500 | MG/L | SW6010B TCLP TCLP |
| Chromium | 0.007 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| TPH C10-C28 | 3.6 J | 5.3 | MG/KG | SW8015C-E |
| pH | 8.05 | 0 | pH | SW9045 |

**SAMPLE ID:** ST106-1DW-10628

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| Arsenic | 0.062 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| Barium | 0.61 | 0.100 | MG/L | SW6010B TCLP TCLP |
| Cadmium | 0.0114 J | 0.0500 | MG/L | SW6010B TCLP TCLP |
| Chromium | 0.00874 J | 0.100 | MG/L | SW6010B TCLP TCLP |
| TPH C10-C28 | 4.7 J | 5.5 | MG/KG | SW8015C-E |
| Heptachlor | 0.000017 JPB | 0.00011 | MG/L | SW8081A TCLP SPLP |
| Tetrachloroethene | 0.0045 J | 0.0050 | MG/L | SW8260B TCLP SPLP |
| pH | 8.49 | 0 | pH | SW9045 |

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# Organics

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# Organic Data Qualifiers

**U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.

**J** Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.

**B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.

**E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.

**D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.

**C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.

**P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.

**N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

**A** This qualifier indicates that a TIC is a suspected aldol-condensation product.

**X** Data flagged as rejected by analyst utilizing analytical judgement.

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# Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

**DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

**R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

**RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

**MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

**SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

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# GC/MS VOLATILE ORGANICS

# METHOD 8260 TCLP

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# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 96301.D

Sample wt/vol: 0.5 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/22/10 Time: 1610

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260 TCLP

GPC Cleanup : ( Y/N ) pH:

Column(1): DB-624 ID: 0.18 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 75-01-4 | Vinyl chloride | 0.01 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.005 | U |
| 78-93-3 | 2-Butanone | 0.04 | U |
| 67-66-3 | Chloroform | 0.005 | U |
| 56-23-5 | Carbon tetrachloride | 0.005 | U |
| 71-43-2 | Benzene | 0.005 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.005 | U |
| 79-01-6 | Trichloroethene | 0.005 | U |
| 127-18-4 | Tetrachloroethene | 0.005 | U |
| 108-90-7 | Chlorobenzene | 0.005 | U |

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 96302.D

Sample wt/vol: 0.5 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/22/10 Time: 1632

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260 TCLP

GPC Cleanup : ( Y/N ) pH:

Column(1): DB-624 ID: 0.18 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 75-01-4 | Vinyl chloride | 0.01 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.005 | U |
| 78-93-3 | 2-Butanone | 0.04 | U |
| 67-66-3 | Chloroform | 0.005 | U |
| 56-23-5 | Carbon tetrachloride | 0.005 | U |
| 71-43-2 | Benzene | 0.005 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.005 | U |
| 79-01-6 | Trichloroethene | 0.005 | U |
| 127-18-4 | Tetrachloroethene | 0.005 | U |
| 108-90-7 | Chlorobenzene | 0.005 | U |

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 96303.D

Sample wt/vol: 0.5 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/22/10 Time: 1655

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260 TCLP

GPC Cleanup : ( Y/N ) pH:

Column(1): DB-624 ID: 0.18 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 75-01-4 | Vinyl chloride | 0.01 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.005 | U |
| 78-93-3 | 2-Butanone | 0.04 | U |
| 67-66-3 | Chloroform | 0.005 | U |
| 56-23-5 | Carbon tetrachloride | 0.005 | U |
| 71-43-2 | Benzene | 0.005 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.005 | U |
| 79-01-6 | Trichloroethene | 0.005 | U |
| 127-18-4 | Tetrachloroethene | 0.0045 | J |
| 108-90-7 | Chlorobenzene | 0.005 | U |

# GC VOLATILE ORGANICS

# METHOD 8015

260510 1842

1

## VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 96301.D

Sample wt/vol: 4.44 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/24/10 Time: 1548

PercentSolids: 97.4 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C610 | TPH C6-C10 | 1.4 | U |

260510 1842

Form I

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 96302.D

Sample wt/vol: 5.45 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/24/10 Time: 1614

PercentSolids: 91.2 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C610 | TPH C6-C10 | 1.2 | U |

260510 1842

Form I

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 96303.D

Sample wt/vol: 4.78 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/24/10 Time: 1639

PercentSolids: 94.2 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C610 | TPH C6-C10 | 1.3 | U |

260510 1842

Form I

# GC/MS SEMI-VOLATILE ORGANICS

# METHOD 8270 TCLP

260510 1843

# SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 963-01.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 0451

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8270 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

*CONCENTRATION UNITS:* MG/L

## TCLP Analysis

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 110-86-1 | Pyridine | 0.00933 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.012 | U |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 0.0116 | U |
| 67-72-1 | Hexachloroethane | 0.0116 | U |
| 106-44-5 | 4-Methylphenol | 0.0271 | U |
| 98-95-3 | Nitrobenzene | 0.0124 | U |
| 87-68-3 | Hexachlorobutadiene | 0.0111 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.016 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0151 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0124 | U |
| 118-74-1 | Hexachlorobenzene | 0.0116 | U |
| 87-86-5 | Pentachlorophenol | 0.0222 | U |

# SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 963-02.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 0520

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8270 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

*CONCENTRATION UNITS:* MG/L

## TCLP Analysis

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 110-86-1 | Pyridine | 0.00933 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.012 | U |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 0.0116 | U |
| 67-72-1 | Hexachloroethane | 0.0116 | U |
| 106-44-5 | 4-Methylphenol | 0.0271 | U |
| 98-95-3 | Nitrobenzene | 0.0124 | U |
| 87-68-3 | Hexachlorobutadiene | 0.0111 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.016 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0151 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0124 | U |
| 118-74-1 | Hexachlorobenzene | 0.0116 | U |
| 87-86-5 | Pentachlorophenol | 0.0222 | U |

# SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 963-03.D

Sample wt/vol: 460 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 0549

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8270 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

*CONCENTRATION UNITS:* MG/L

## TCLP Analysis

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 110-86-1 | Pyridine | 0.00913 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.0117 | U |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 0.0113 | U |
| 67-72-1 | Hexachloroethane | 0.0113 | U |
| 106-44-5 | 4-Methylphenol | 0.0265 | U |
| 98-95-3 | Nitrobenzene | 0.0122 | U |
| 87-68-3 | Hexachlorobutadiene | 0.0109 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0156 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0148 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0122 | U |
| 118-74-1 | Hexachlorobenzene | 0.0113 | U |
| 87-86-5 | Pentachlorophenol | 0.0217 | U |

# GC/ECD PESTICIDE ORGANICS

# METHOD 8081 TCLP

260510 1843

# PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 963-1.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 1451

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8081 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 58-89-9 | gamma-BHC (Lindane) | 0.00011 | U |
| 76-44-8 | Heptachlor | 0.00011 | U |
| 1024-57-3 | Heptachlor epoxide | 0.00011 | U |
| 72-20-8 | Endrin | 0.00011 | U |
| 72-43-5 | Methoxychlor | 0.00011 | U |
| 57-74-9 | Chlordane | 0.0011 | U |
| 8001-35-2 | Toxaphene | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 963-2.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 1556

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8081 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 58-89-9 | gamma-BHC (Lindane) | 0.00011 | U |
| 76-44-8 | Heptachlor | 0.000031 | JPB |
| 1024-57-3 | Heptachlor epoxide | 0.00011 | U |
| 72-20-8 | Endrin | 0.00011 | U |
| 72-43-5 | Methoxychlor | 0.00011 | U |
| 57-74-9 | Chlordane | 0.0011 | U |
| 8001-35-2 | Toxaphene | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 963-3.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 1629

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8081 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 58-89-9 | gamma-BHC (Lindane) | 0.00011 | U |
| 76-44-8 | Heptachlor | 0.000017 | JPB |
| 1024-57-3 | Heptachlor epoxide | 0.00011 | U |
| 72-20-8 | Endrin | 0.00011 | U |
| 72-43-5 | Methoxychlor | 0.00011 | U |
| 57-74-9 | Chlordane | 0.0011 | U |
| 8001-35-2 | Toxaphene | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# GC/ECD HERBICIDE ORGANICS

# METHOD 8151 TCLP

260510 1843

# HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 963-1.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 2121

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8151 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0011 | U |
| 94-75-7 | 2,4'-D | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 963-2.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 2158

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8151 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0011 | U |
| 94-75-7 | 2,4'-D | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 963-3.D

Sample wt/vol: 450 Units: ML Date Received: 05/19/10

Concentrated Extract Volume: 10 Date Extracted: 05/24/10

Level:(low/med) LOW Date Analyzed: 05/25/10 Time: 2310

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Method: 8151 TCLP

GPC Cleanup : ( Y/N ) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm) Column(2): STX-CLP2 ID: 0.32 (mm)

*CONCENTRATION UNITS:* MG/L

**TCLP Analysis**

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0011 | U |
| 94-75-7 | 2,4'-D | 0.0011 | U |

Higher value of the two columns reported as result unless %D between the columns is >40%, then the lower of the two results is reported

260510 1843

Form I

# GC 8015 DRO ORGANICS

# METHOD 8015

260510 1843

# 8015 DRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301 Lab File ID 963-1.D

Sample wt/vol: 33.47 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/21/10

Level:(low/med) LOW Date Analyzed: 05/21/10 Time: 1807

PercentSolids: 97.4 decanted : Dilution Factor: 1

Extraction: SONC Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C1028 | TPH C10-C28 | 3.6 | J |

260510 1843

Form I

# 8015 DRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302 Lab File ID 963-2.D

Sample wt/vol: 33.56 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/21/10

Level:(low/med) LOW Date Analyzed: 05/21/10 Time: 1835

PercentSolids: 91.2 decanted : Dilution Factor: 1

Extraction: SONC Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C1028 | TPH C10-C28 | 4 | J |

260510 1843

Form I

# 8015 DRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc Contract: ST106-TO96

Lab Code : PEL Case No. SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303 Lab File ID 963-3.D

Sample wt/vol: 33.28 Units: G Date Received: 05/19/10

Concentrated Extract Volume: 1 Date Extracted: 05/21/10

Level:(low/med) LOW Date Analyzed: 05/21/10 Time: 1903

PercentSolids: 94.2 decanted : Dilution Factor: 1

Extraction: SONC Station ID: Method: 8015

GPC Cleanup : ( Y/N ) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

*CONCENTRATION UNITS:* MG/KG

| *CAS NO.* | *ANALYTE* | *RESULT* | *Q* |
|---|---|---|---|
| TPH-C1028 | TPH C10-C28 | 4.7 | J |

260510 1843

Form I

# Inorganics

260510 1843

# Inorganic Data Qualifiers

**C (Concentration) Qualifier - Entries and their meanings are:**

**J** The reported value obtained was less than the RL but greater than or equal to the MDL.

**E** The reported value obtained was over calibration or linear range.

**U** The reported value obtained was less than the MDL or was not detected.

**Q Qualifier - Entries and their meanings are:**

**U** The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

**M** Duplicate injection precision was not met (two analyses of the same sample did not agree).

**N** Spiked sample recovery not within control limits.

**E** Serial Dilution percent difference not within control limits.

**S** The reported value was determined by the Method of Standard Additions (MSA).

**W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

**+** Correlation coefficient for the MSA is less than 0.995.

**X** The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

**M (Method) Qualifier - Enter one of the following:**

**P** ICP
**A** Flame AA
**F** Furnace AA
**CV** Manual Cold Vapor AA
**TC** Total Organic Carbon
**AS** Semi-Automated Spectrophotometric
**CA** Midi-Distillation Spectrophotometric
**T** Titrimetric
**C** Manual Spectrophotometric
**GR** Gravimetric
**NR** Analyte was not required by your lab

260510 1843

# Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

**DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

**R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

**RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

**MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

**SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

**A** Post Digestion Spike.

**L** Serial Dilution.

260510 1843

# METALS DATA PACKAGE
# TCLP

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260510 1843

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

**TCLP Analysis**

*CONCENTRATION UNITS: MG/L*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.0593 | J | | P |
| 7440-39-3 | Barium | 0.534 | | E | P |
| 7440-43-9 | Cadmium | 0.0115 | J | | P |
| 7440-47-3 | Chromium | 0.007 | J | | P |
| 7439-92-1 | Lead | 0.15 | U | | P |
| 7439-97-6 | Mercury | 0.002 | U | | CV |
| 7782-49-2 | Selenium | 0.2 | U | | P |
| 7440-22-4 | Silver | 0.1 | U | | P |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1843

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

**TCLP Analysis**

*CONCENTRATION UNITS: MG/L*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.0426 | J | | P |
| 7440-39-3 | Barium | 0.752 | | | P |
| 7440-43-9 | Cadmium | 0.05 | U | | P |
| 7440-47-3 | Chromium | 0.00761 | J | | P |
| 7439-92-1 | Lead | 0.15 | U | | P |
| 7439-97-6 | Mercury | 0.002 | U | | CV |
| 7782-49-2 | Selenium | 0.2 | U | | P |
| 7440-22-4 | Silver | 0.1 | U | | P |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1843

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

**TCLP Analysis**

*CONCENTRATION UNITS: MG/L*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.062 | J | | P |
| 7440-39-3 | Barium | 0.61 | | | P |
| 7440-43-9 | Cadmium | 0.0114 | J | | P |
| 7440-47-3 | Chromium | 0.00874 | J | | P |
| 7439-92-1 | Lead | 0.15 | U | | P |
| 7439-97-6 | Mercury | 0.002 | U | | CV |
| 7782-49-2 | Selenium | 0.2 | U | | P |
| 7440-22-4 | Silver | 0.1 | U | | P |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1843

# WET CHEMISTRY DATA PACKAGE
# pH

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260510 1844

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10627

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596301

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

*CONCENTRATION UNITS: pH*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 1-00-6 | pH | 8.05 | | | N/A |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1844

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10626

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596302

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

*CONCENTRATION UNITS: pH*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 1-00-6 | pH | 8.39 | | | N/A |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1844

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

ST106-1DW-10628

Lab Name: PEL, Spectrum Analytical, Inc. Contract: ST106-TO96

Lab Code : PEL Case No.: SAS No: SDG No.: 2515963

Matrix: SOIL Lab Sample ID: 251596303

Level:(low/med) LOW Date Received: 5/19/2010

PercentSolids: 0 Station ID:

*CONCENTRATION UNITS: pH*

| CAS NO. | ANALYTE | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 1-00-6 | pH | 8.49 | | | N/A |

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260510 1844

# OUTSIDE LAB DATA PACKAGE TOTALS

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260510 1844

# Mitkem Laboratories

**Date:** *25-May-10*

**Client:** PEL Laboratories Inc.
**Client Sample ID:** ST106-1DW-10627
**Lab ID:** J1052-01

**Project:** CH2M Hill - Kirtland (TO-38)
**Collection Date:** 05/18/10 11:30

| Analyses | Result | Qual | MDL | RL | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|---|
| **SW846 1010 -- FLASHPOINT BY PENSKY-MARTENS CLOSED-CUP METHOD** | | | | | | **SW1010_S** | | |
| Ignitability | NO FLASH @ 140 | | 140 | 200 | °F | 1 | 05/24/2010 10:40 | R49261 |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mLIMS-002

# Mitkem Laboratories

**Date:** *25-May-10*

**Client:** PEL Laboratories Inc.
**Client Sample ID:** ST106-1DW-10626
**Lab ID:** J1052-02

**Project:** CH2M Hill - Kirtland (TO-38)
**Collection Date:** 05/18/10 12:40

| Analyses | Result | Qual | MDL | RL | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|---|
| **SW846 1010 -- FLASHPOINT BY PENSKY-MARTENS CLOSED-CUP METHOD** | | | | | | | **SW1010_S** | |
| Ignitability | NO FLASH @ 140 | | 140 | 200 | °F | 1 | 05/24/2010 11:20 | R49261 |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mLIMS-002

# Mitkem Laboratories

**Date:** *25-May-10*

**Client:** PEL Laboratories Inc.
**Client Sample ID:** ST106-1DW-10628
**Lab ID:** J1052-03

**Project:** CH2M Hill - Kirtland (TO-38)
**Collection Date:** 05/18/10 13:10

| Analyses | Result | Qual | MDL | RL | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|---|
| **SW846 1010 -- FLASHPOINT BY PENSKY-MARTENS CLOSED-CUP METHOD** | | | | | | | **SW1010_S** | |
| Ignitability | NO FLASH @ 140 | | 140 | 200 | °F | 1 | 05/24/2010 11:46 | R49261 |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mLIMS-002

# Chain of Custody Documentation

260510 1844

2515963 TSC

PEL Laboratories, Inc.

# Chain of Custody Record
# Record/Work Request

8405 Benjamin Rd, Ste A
Tampa, FL 33634
Phone: 813-888-9507
E-Mail: login@pelab.com

Page 1 of 1

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:

Company: CH2M HILL
Address: 4041 Jefferson Plaza, ABQ, NM, 87109
Phone: 505 884-5600 Fax: 505 816-0574
Print Names(s) / Affiliation: MBrisken, field team lead
Sampler(s) Signature(s): MBrisken

Project Name/Number: ST106 - T096
Project Manager: S. Minchak
Purchase Order:

REQUESTED DUE DATE: 7 DAY / TAT

Preservatives (see codes): 1 1 1 1 1 1 1 1 0

Analyses Requested

| Item No. | Field ID No. | Sampled Date | Sampled Time | Grab or Composite | Matrix (see codes) | Number of Containers | 8260 TCLP | 8270 TCLP | 8081 TCLP | 8151 TCLP | 6010/7470 TCLP | 1010 Flashpoint | 9045 pH | 8015 DRO | 8015 GRO | Remarks | Lab. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ST106-1DW-10627 | 5/18/10 | 1130 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -01 |
| 2 | ST106-1DW-10626 | " | 1240 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -02 |
| 3 | ST106-1DW-10628 | " | 1310 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -03 |

2515963

Shipment Method: Fed Ex — 30 ← Total Number of Containers

| Out: / / | Via: | Item Nos. | Relinquished by / Affiliations | Date | Time | Accepted by / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|---|
| Returned: / / | Via. | | MBrisken | 5/18/10 | 1435 | TC / PEL | 05/19/10 | 0840 |

Additional Comments:
EDD to Paul Clement,
Hard Copy to Shane Lowe
CH2M St. Louis office,

| Cooler No. (s) / Temperature(s) (C) | Sampling Kit No. | Equipment ID No. |
|---|---|---|
| TEMP 3.5 C | | |

pd TJC 5/19/10

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

304

**DEPARTMENT OF THE AIR FORCE**
377th Civil Engineer Division (AFMC)

23 June, 2010

MEMORANDUM FOR: 377 MSG/CEANR

FROM: 377 MSG/CEANC (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CH2MHill Ltr. dated: 17 June, 2010
AFCEE Contract No. FA8903-04-D-8670 / Task Order No. 313
AFCEE Contract No. FA8903-08-D-8769 / Task Order No. 096

1. Authorization is granted to CH2MHILL to dispose of 120 cubic yards of soil drill cuttings and debris from soil drill cuttings at wells KAFB-10626; 10627 & 10628 in support of continuing investigation at the Bulk Fuels Facility at the Kirtland AFB construction and demolition landfill. Debris will be delivered in 6 each roll-offs, two are Rinchem serial numbers 104056 and 22027 and three each MCT owned with serial numbers A20-023; A20-029; A20-062; and A20-077 to the landfill. Debris will consist of drill cuttings and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CH2MHill shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany the roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 846-9014.

STEVEN C. KITT
Solid Waste Program Manager
Natural Resource Asset Management

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE, N.M. 87107
PHONE (505) 345-3655

BOL# 10629

RINCHEM COMPANY., INC
Carrier

06 / 29 /2010

CH2M HILL
KAFB DRILLING PROJECT
MERIDITH 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

[X] DELIVERY OF ~~EMPTY~~ Loaded ROLL-OFF BIN to Land Fill
BIN # A20-029 ✓

[X] DELIVERY OF ~~EMPTY~~ Loaded ROLL-OFF BIN to Land Fill
BIN # A20-023 ✓

[ ] DELIVERY OF _____ ROLL-OFF LINERS

[ ] DELIVERY OF _____ TARP

WE DO IT WELL

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATION OF THE DEPARTMENT OF TRANSPORTATION.

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DELIVERED
Deposit Drums _____

RETURNED
Deposit Drum _____

RECEIVED BY _____

**FOR CHEMICAL EMERGENCY**
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PHONE (505) 345-3655

BOL# 10626

RINCHEM COMPANY., INC
Carrier

06 /28 /2010

CH2MHILL
KAFB Drilling Project
Meridith 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

☒ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Landfill
BIN # 104056 ✓

☒ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to land fill
BIN # 22027 ✓

☐ DELIVERY OF _____ ROLL-OFF LINERS

☐ DELIVERY OF _____ TARP

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATION OF THE DEPARTMENT OF TRANSPORTATION.

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BOL# _____.

RINCHEM COMPANY., INC
Carrier

_____/_____/2010

CH2MHILL
KAFB Drilling Project
MEREDITH 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

☐ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Land Fill
BIN # A20-077 ✓

~~Acct Bill~~
~~937792~~

☐ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Land Fill
BIN # A20-062 ✓

☐ DELIVERY OF _____ ROLL-OFF LINERS

☐ DELIVERY OF _____ TARP

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**800-424-9300**

# Mitkem Laboratories

**Date:** *25-May-10*

**Client:** PEL Laboratories Inc.
**Client Sample ID:** ST106-1DW-10626
**Lab ID:** J1052-02

**Project:** CH2M Hill - Kirtland (TO-38)
**Collection Date:** 05/18/10 12:40

| Analyses | Result | Qual | MDL | RL | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|---|
| **SW846 1010 -- FLASHPOINT BY PENSKY-MARTENS CLOSED-CUP METHOD** | | | | | | | **SW1010_S** | |
| Ignitability | NO FLASH @ 140 | | 140 | 200 | °F | 1 | 05/24/2010 11:20 | R49261 |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mLIMS-002

# Mitkem Laboratories

**Date:** *25-May-10*

**Client:** PEL Laboratories Inc.
**Client Sample ID:** ST106-1DW-10628
**Lab ID:** J1052-03

**Project:** CH2M Hill - Kirtland (TO-38)
**Collection Date:** 05/18/10 13:10

| Analyses | Result | Qual | MDL | RL | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|---|
| **SW846 1010 -- FLASHPOINT BY PENSKY-MARTENS CLOSED-CUP METHOD** | | | | | | | **SW1010_S** | |
| Ignitability | NO FLASH @ 140 | | 140 | 200 | °F | 1 | 05/24/2010 11:46 | R49261 |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mLIMS-002

# Chain of Custody Documentation

260510 1844

2515963 TSC

PEL Laboratories, Inc.

# Chain of Custody Record
# Record/Work Request

8405 Benjamin Rd, Ste A
Tampa, FL 33634
Phone: 813-888-9507
E-Mail: login@pelab.com

Page 1 of 1

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:

Company: CH2M HILL
Address: 4041 Jefferson Plaza, ABQ, NM, 87109
Phone: 505 884-5600 Fax: 505 816-0574
Print Names(s) / Affiliation: MBrisken, field team lead
Sampler(s) Signature(s): MBrisken

Project Name/Number: ST106 - T096
Project Manager: S. Minchak
Purchase Order:

REQUESTED DUE DATE: 7 DAY / TAT

Preservatives (see codes): 1 1 1 1 1 1 1 1 0

Analyses Requested

| Item No. | Field ID No. | Sampled Date | Sampled Time | Grab or Composite | Matrix (see codes) | Number of Containers | 8260 TCLP | 8270 TCLP | 8081 TCLP | 8151 TCLP | 6010/7470 TCLP | 1010 Flashpoint | 9045 pH | 8015 DRO | 8015 GRO | Remarks | Lab. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ST106-1DW-10627 | 5/18/10 | 1130 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -01 |
| 2 | ST106-1DW-10626 | " | 1240 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -02 |
| 3 | ST106-1DW-10628 | " | 1310 | C | So | 10 | X | X | X | X | X | X | X | X | X | | -03 |

2515963

Shipment Method: Fed Ex — 30 ← Total Number of Containers

| Out: / / | Via: | Item Nos. | Relinquished by / Affiliations | Date | Time | Accepted by / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|---|
| Returned: / / | Via. | | MBrisken | 5/18/10 | 1435 | TC / PEL | 05/19/10 | 0840 |

Additional Comments:
EDD to Paul Clement,
Hard Copy to Shane Lowe
CH2M St. Louis office,

| Cooler No. (s) / Temperature(s) (C) | Sampling Kit No. | Equipment ID No. |
|---|---|---|
| TEMP 3.5 C | | |

pd TJC 5/19/10

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

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377th Civil Engineer Division (AFMC)

23 June, 2010

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PHONE (505) 345-3655

BOL# 10629

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06 / 29 /2010

CH2M HILL
KAFB DRILLING PROJECT
MERIDITH 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

[X] DELIVERY OF ~~EMPTY~~ Loaded ROLL-OFF BIN to Land Fill
BIN # A20-029 ✓

[X] DELIVERY OF ~~EMPTY~~ Loaded ROLL-OFF BIN to Land Fill
BIN # A20-023 ✓

[ ] DELIVERY OF _____ ROLL-OFF LINERS

[ ] DELIVERY OF _____ TARP

WE DO IT WELL

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Deposit Drum _____

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RINCHEM COMPANY., INC
Carrier

06 /28 /2010

CH2MHILL
KAFB Drilling Project
Meridith 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

☒ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Landfill
BIN # 104056 ✓

☒ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to landfill
BIN # 22027 ✓

☐ DELIVERY OF _____ ROLL-OFF LINERS

☐ DELIVERY OF _____ TARP

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BOL# _____.

RINCHEM COMPANY., INC
Carrier

_____/_____/2010

CH2MHILL
KAFB Drilling Project
MEREDITH 301-1758

RINCHEM COMPANY, INC
6133 EDITH NE
ALBUQUERQUE, NM 87107

☐ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Land Fill
BIN # A20-077 ✓

~~Acct Bill~~
~~937792~~

☐ DELIVERY OF ~~EMPTY~~ loaded ROLL-OFF BIN to Land Fill
BIN # A20-062 ✓

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☐ DELIVERY OF _____ TARP

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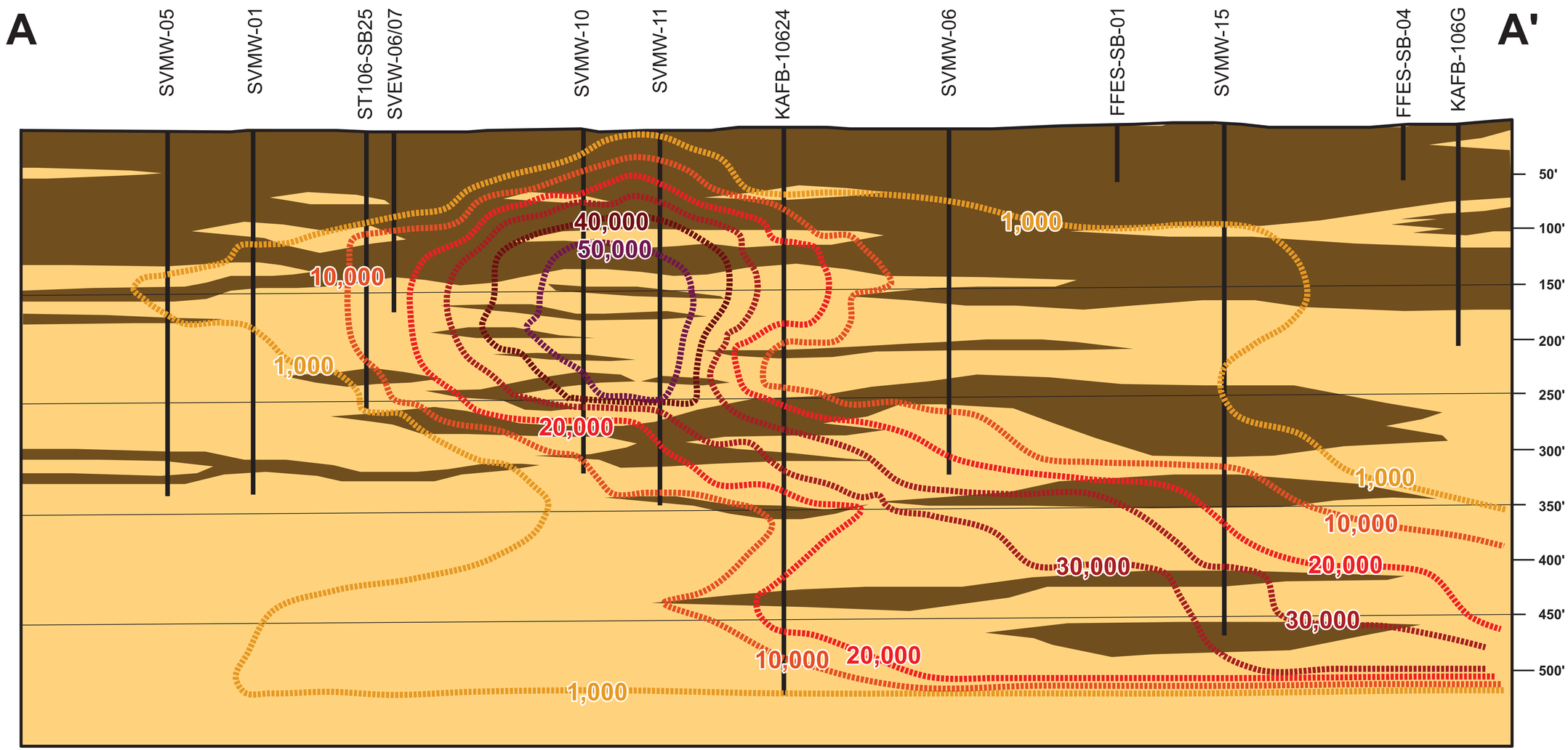
# PLATES

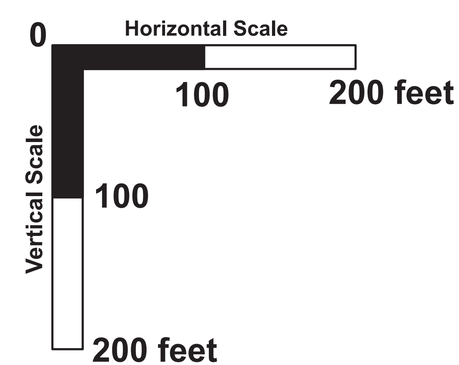
## Full Size Version of Figures in Text

4-6 Geologic Cross-Section A-A' Total Petroleum Hydrocarbons in Soil
4-7 Geologic Cross-Section B-B' Total Petroleum Hydrocarbons in Soil
4-8 Geologic Cross-Section C-C' Total Petroleum Hydrocarbons in Soil
4-9 Geologic Cross-Section D-D' Total Petroleum Hydrocarbons in Soil
5-3 Geologic Cross-Section A-A' Dissolved-Phase Fuel
5-4 Geologic Cross-Section B-B', C-C', D-D' Dissolved-Phase Fuel




## LEGEND

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)



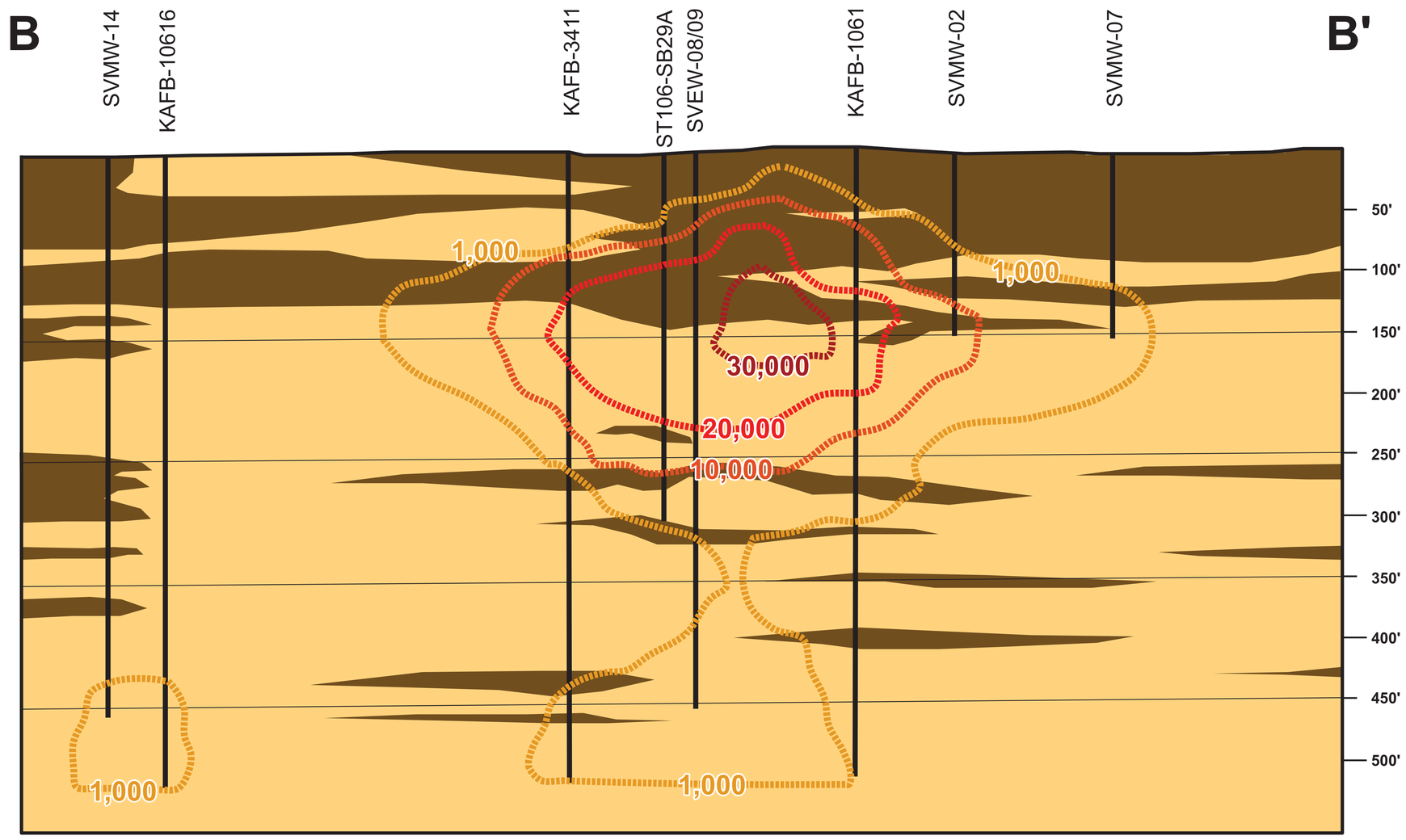

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-6

Geologic Cross-Section A-A'
Total Petroleum Hydrocarbons in Soil

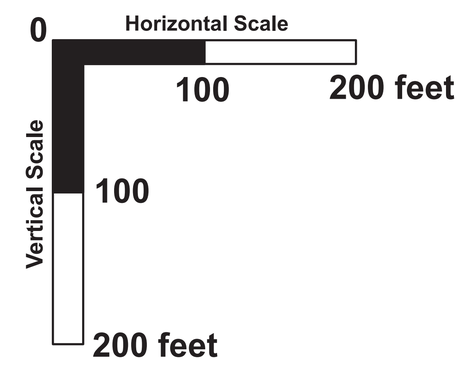
Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.




**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)



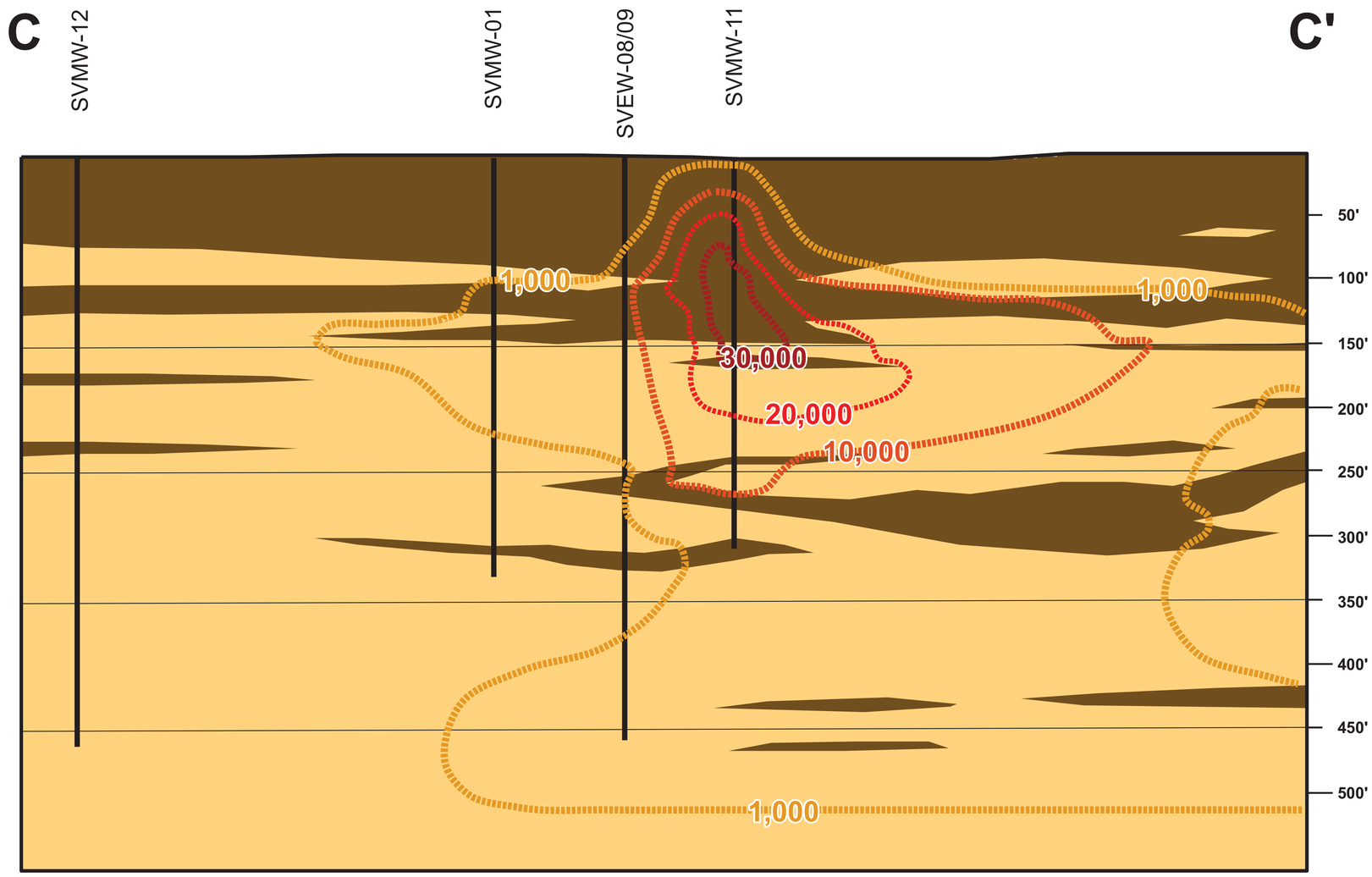

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-7

Geologic Cross-Section B-B'
Total Petroleum Hydrocarbons in Soil

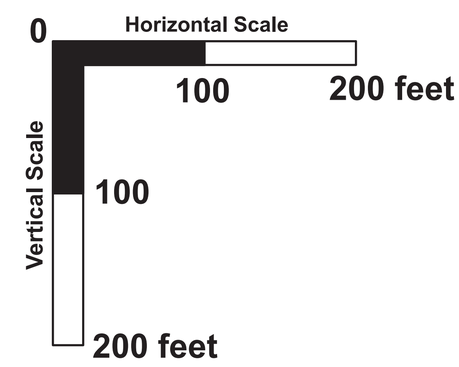
Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.




**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)



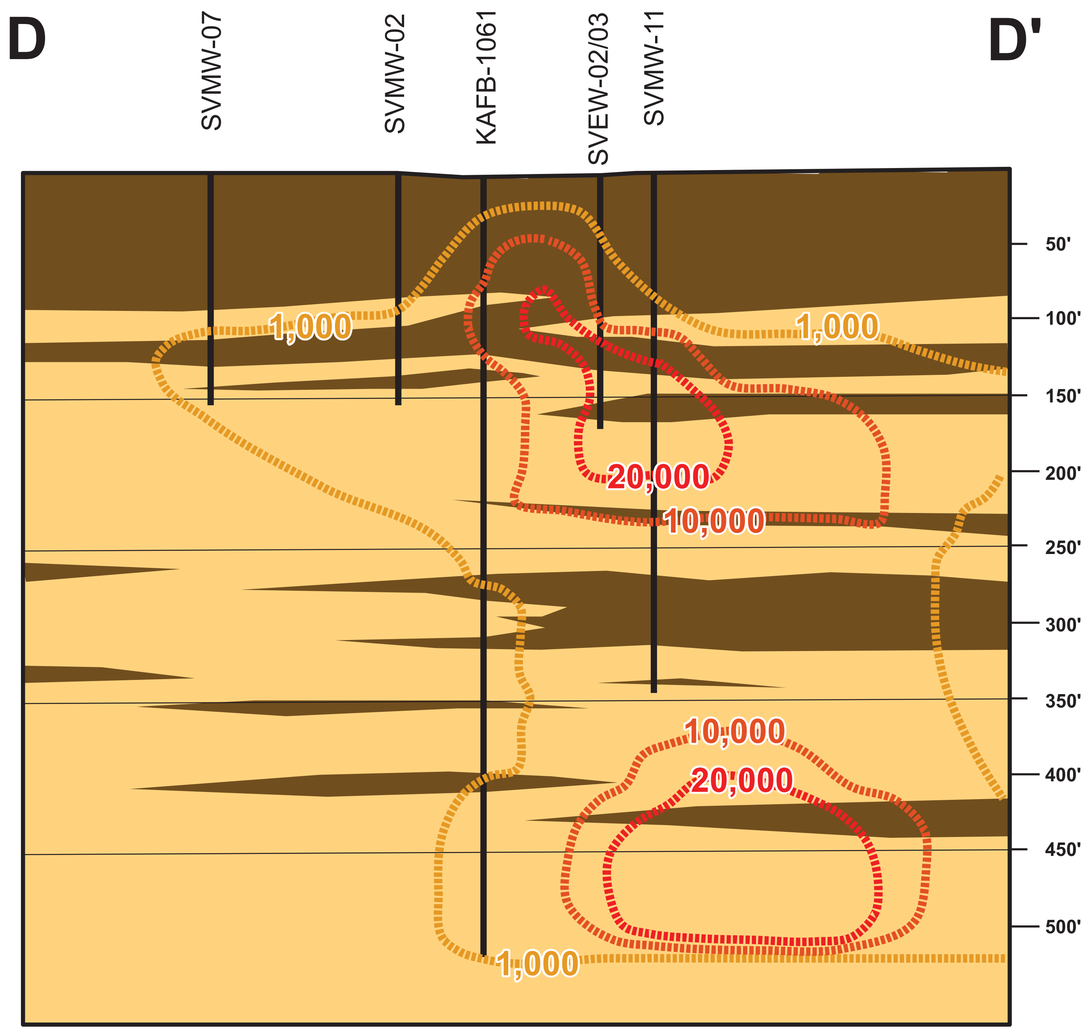

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-8

Geologic Cross-Section C-C'
Total Petroleum Hydrocarbons in Soil

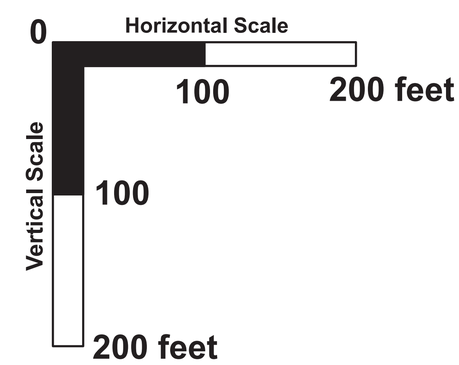
Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.




**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Total Petroleum Hydrocarbons in Soil Vapor (ppmv)



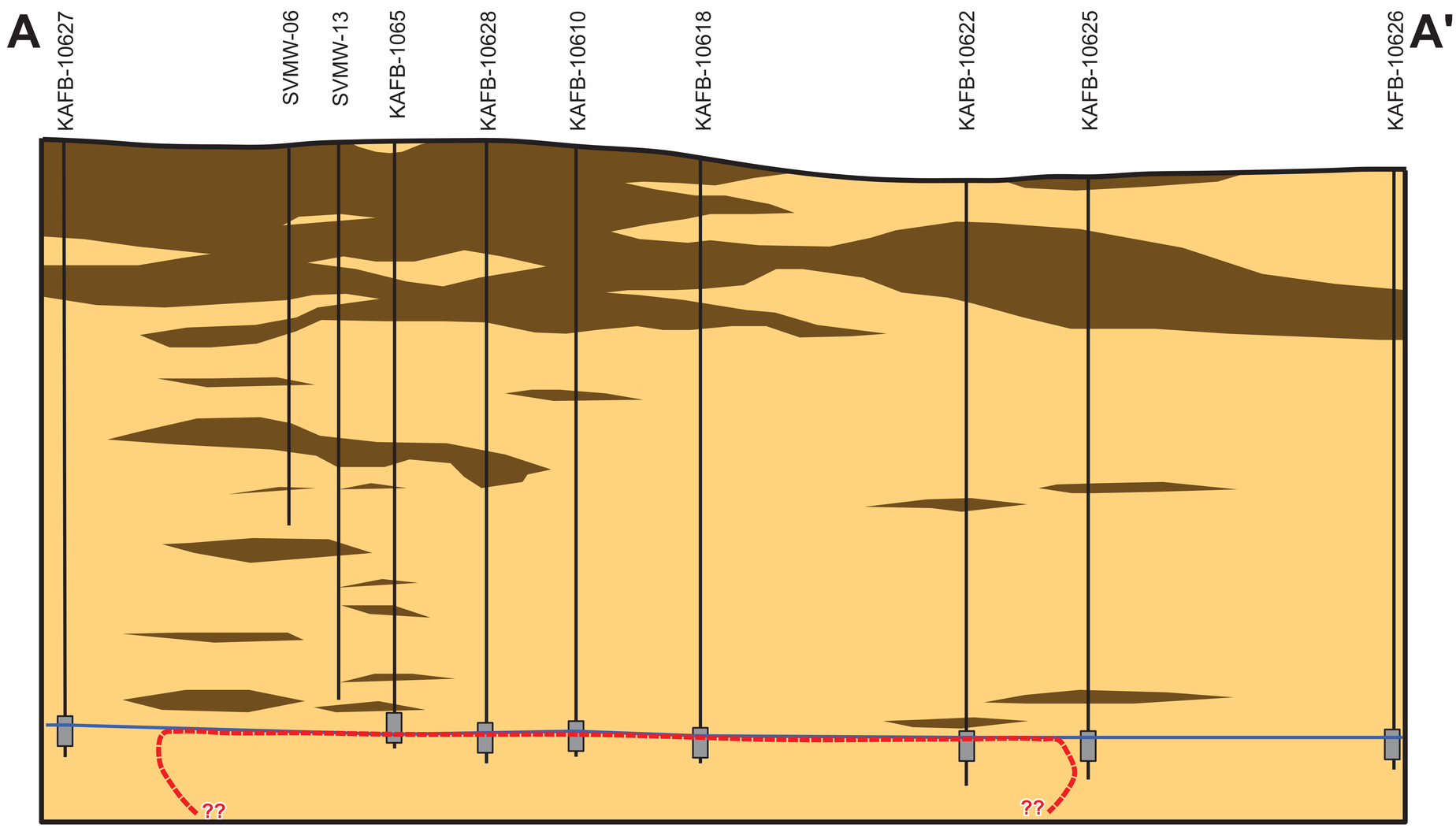

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 4-9

Geologic Cross-Section D-D'
Total Petroleum Hydrocarbons in Soil

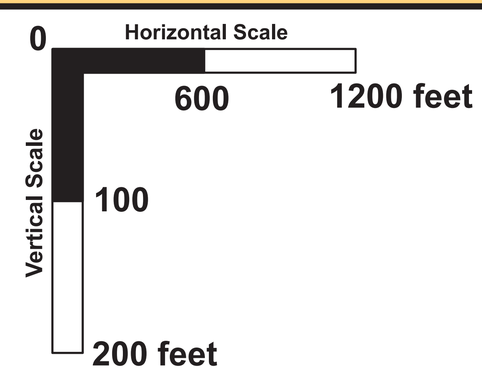
Revision Date: 14 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from 2D contours presented in Figures 4-2 through 4-5, with condsideration for subsurface lithology.




**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Extent of Dissolved-Phase Fuel above the Maximum Contaminant Level
- Well Screen



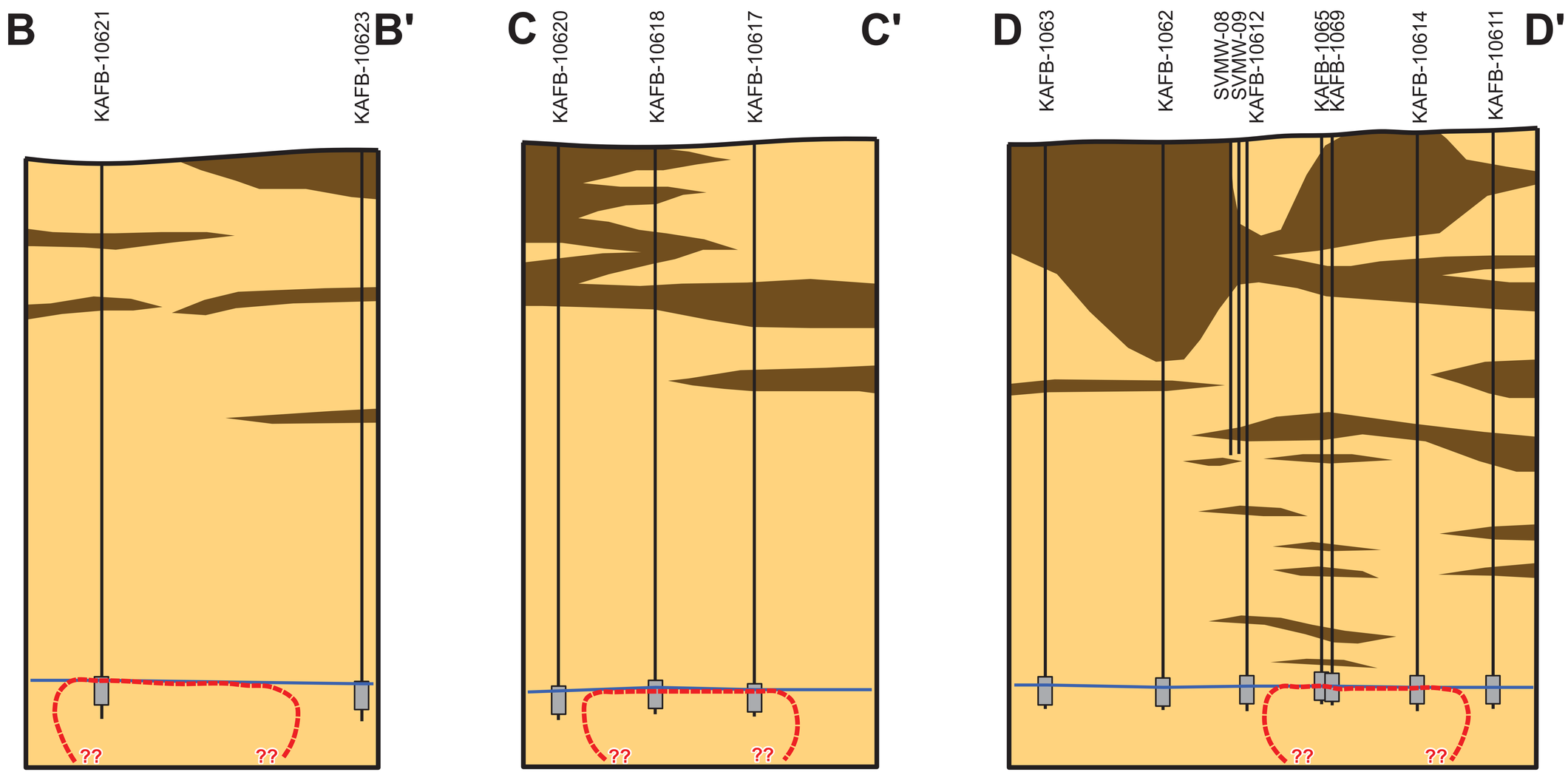

Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 5-3

Geologic Cross-Section A-A'
Dissolved-Phase Fuel

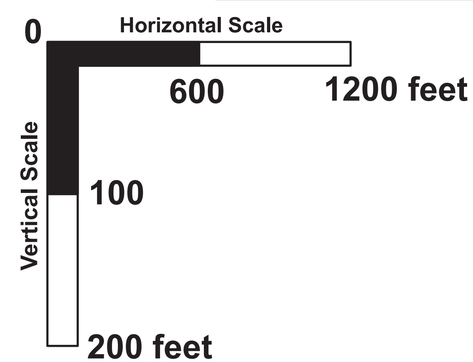
Revision Date: 15 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from contours shown on Figure 5-2.




**LEGEND**

- Silts and Clays (Fine-Grained Sediments)
- Sands and Gravels (Coarse-Grained Sediments)
- Extent of Dissolved-Phase Fuel above the Maximum Contaminant Level
- Well Screen




Quarterly Summary and Performance Report
April 2010 through June 2010
Bulk Fuels Facility

Figure 5-4

Geologic Cross-Sections B-B', C-C', D-D'
Dissolved-Phase Fuel

Revision Date: 15 August 2010

Geologic cross-section interpolated from 3D lithologic model created using Mining Visualization Software (MVS).
Concentration contours interpolated from contours shown on Figure 5-2.