

APPENDIX B

Data Quality Evaluation Reports and Data Packages

B-1. Data Quality Evaluation Report – Groundwater, April – June 2012

B-2. Data Quality Evaluation Report – Soil, Second and Third Quarter 2011

B-3. Data Quality Evaluation Report – Soil Vapor, April – June 2012

B-4. Groundwater, Soil, and Soil Vapor Data Packages

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
%	percent
%D	percent difference
µg/m ³	micrograms per cubic meter
AFB	Air Force Base
APH	air phase hydrocarbon
ASTM	American Society for Testing and Materials
BFF	Bulk Fuels Facility
CCB	continuing calibration blank
CCV	continuing calibration verification
DL	detection limit
DoD	U.S. Department of Defense
DRO	diesel range organics
EDB	1,2-dibromoethane/ethylene dibromide
EPA	U.S. Environmental Protection Agency
GCAL	Gulf Coast Analytical Laboratories, Inc.
GRO	gasoline range organics
ICB	initial calibration blank
ICP	inductively coupled plasma
ICS	interference check sample
ICV	initial calibration verification
ID	identification
KAFB	Kirtland Air Force Base
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOQ	limit of quantitation
MA DEP	Massachusetts Department of Environmental Protection
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
PAH	polycyclic aromatic hydrocarbon
ppb	parts per billion
ppbv	parts per billion by volume
ppm	parts per million

ACRONYMS AND ABBREVIATIONS (concluded)

QAPjP	Quality Assurance Project Plan
QC	quality control
QSM	Quality Systems Manual
RPD	relative percent difference
RRF	relative response factor
SDG	sample delivery group
SM	Standard Method
SVOC	semivolatile organic compound
TB	Trip Blank
TPH	total petroleum hydrocarbon
USACE	U.S. Army Corps of Engineers
VOC	volatile organic compound

APPENDIX B-1

Data Quality Evaluation Report – Groundwater April – June 2012

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B-1. DATA QUALITY EVALUATION REPORT - GROUNDWATER APRIL – JUNE 2012

1. LABORATORY DATA QUALITY SUMMARY

This laboratory data quality summary report presents the findings of the groundwater data review for the Second Quarter 2012 groundwater monitoring event and is provided to document the quality of the analytical data used in the *Quarterly Pre-Remedy Monitoring and Site Investigation Report, April – June 2012, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111* (hereafter referred to as the quarterly report). Sampling procedures and overall quality control (QC) and quality assurance protocols for the Second Quarter 2012 groundwater monitoring event are presented in the *Quality Assurance Project Plan, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (U.S. Army Corps of Engineers [USACE], 2011).

During the period from April 4 through May 14, 2012, 109 groundwater samples, 12 field duplicates, 2 equipment rinse blanks, 6 ambient blanks, and 19 trip blanks were collected and submitted to Empirical Laboratories LLC in Nashville, Tennessee, for analyses. The laboratory maintains a current U.S. Department of Defense (DoD) Environmental Laboratory Accreditation Program certification to perform the listed analyses.

All groundwater samples were analyzed for the following list of parameters:

- Volatile organic compounds (VOCs) – U.S. Environmental Protection Agency (EPA) Method SW8260B;
- 1,2-Dibromoethane (EDB) – EPA Method SW8011;
- Semivolatile organic compounds (SVOCs) – EPA Method SW8270C;
- Polycyclic aromatic hydrocarbons (PAHs) – EPA Method SW8270C low-level (ST106-VA2 well only);

- Total petroleum hydrocarbons (TPH) as gasoline (C6-C10) – EPA Method SW8015B;
- TPH as diesel (C10-C28) – EPA Method SW8015B;
- Total and dissolved metals – EPA Method SW6010B;
- Anions – EPA Method 300.0;
- Ammonia as nitrogen – Standard Method (SM) 4500 NH3BG;
- Sulfide – SM4500 S2CF;
- Nitrate and nitrite as nitrogen – EPA Method 353.2; and
- Carbonate and bicarbonate alkalinity – SM2320B.

Analytical results for the Second Quarter 2012 groundwater monitoring event are included in sample delivery groups (SDGs) Kirtland-049 through Kirtland-053. Appendix B1 – Table 1 (provided at the end of this report) summarizes each SDG, including sample numbers; sample locations; sample collection dates; and SDG numbers. An EPA Level III data review was performed for all analytical results for each of the five SDGs. The review was performed in accordance with the guidelines and control criteria specified in the following documents:

- The Bulk Fuels Facility (BFF) Spill Quality Assurance Project Plan (QAPjP) (USACE, 2011);
- *DoD Quality Systems Manual for Environmental Laboratories, Version 4.2* (DoD, 2010);
- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (2006), SW-846 (EPA 1996 and updates);
- *Standard Methods for the Examination of Water and Wastewater (21st Edition)* (American Public Health Association et al., 2005);
- *Environmental Quality – Guidance for Evaluating Performance-Based Chemical Data*, EM 200-1-10 (USACE, 2005);
- *USEPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, 2008); and
- *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review*, Final (EPA, 2010).

The following QC elements were included in the EPA Level III data review:

- Sample preservation, and sample extraction/ analysis holding times;
- Laboratory method blanks;
- Initial and continuing calibration blanks (metals, anions, ammonia as nitrogen, and nitrate and nitrite as nitrogen analyses only);
- Surrogate recoveries (organic analyses);
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries;
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries;
- Relative percent differences (RPDs);
- Initial calibration and verification;
- Continuing calibration verification (CCV);
- Inductively coupled plasma (ICP) interference check samples (ICS) (metal analysis only);
- ICP serial dilutions (metal analysis only);
- Sample confirmation (EDB analysis only);
- Field blanks; and
- Field duplicate samples.

Analytical data were reviewed in terms of precision, bias, representativeness, comparability, and completeness as follows:

- *Bias* is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD, and MS/MSD, respectively. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. The recovery of target analytes from fortified samples is compared with the acceptance criteria defined in the QAPjP (USACE, 2011) and DoD Quality Systems Manual (QSM) (DoD, 2010). When the acceptance criteria are not available in the QAPjP or DoD QSM, results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly.
- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates, LCSDs, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.

- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods.
- *Completeness* is expressed as a ratio of the number of usable data points to the total number of analytical data results.

The following sections present the EPA Level III data review findings. The discussion summarizes data quality exceedances and their potential impact on the quality and usability of analytical results.

Appendix B1 – Table 2 presents definitions of data qualification and reason codes applied to the analytical results. Appendix B1 – Table 3 summarizes the qualified data. For informational purposes, qualified field QC data are also presented in this table.

1.1 Reason Codes

1.1.1 Sample Preservation, and Sample Extraction/Analysis Holding Times (Reason Code H)

The sample coolers and samples contained within were received intact at the laboratory and were within the required 0 to 6 degrees Celsius, in compliance with EPA and SM preservation requirements.

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of the sample results. Holding time exceedances were observed for EPA Methods SW8011 for EDB, and SW8015B for TPH diesel analyses. The holding time exceedance and associated sample numbers are listed as follows:

Analytical Method	Holding Time Outlier	Holding Time Requirement	Non-Compliant Sample
SW8011	17 days for analysis	14 days for analysis	GW0517
SW8011	15 days for analysis	14 days for analysis	GW0518, GW0563, GW0564, and GW0565
SW8011	21 days for analysis	14 days for analysis	GW0597
SW8015B	23 days for extraction	7 days for extraction	GW0511 and GW0512

In the original sample GW0597 for the EDB analysis by EPA Method SW8011, EDB concentrations were reported at 0.0429 and 0.0241 parts per billion (ppb) in the primary and secondary columns, respectively. The EDB in the same sample was also reported using EPA Method SW8260B. The reported EDB concentrations from the EDB analysis were approximately 10 times lower than those for the VOCs analysis. As requested, the laboratory re-extracted and re-analyzed the EDB sample by EPA Method SW8011 and reported an EDB concentration of 0.344 ppb for the second EDB analysis. The EDB result for the second analysis is comparable to that for the original VOC analysis and therefore is reported in this quarterly report. The second EDB analysis was performed 7 days outside the 14-day analysis holding time requirement. As a result of the holding time exceedance, the EDB result from the second analysis was qualified as estimated (J-).

Due to laboratory oversight, five EDB samples (GW0517, GW0518, GW0563, GW0564, and GW0565) for EPA Method SW8011 required re-extraction and re-analysis. The re-analysis was completed 1 to 3 days after the 14-day analysis holding time had expired. As a result, the detected results and the limit of quantitation (LOQ) for nondetected results were qualified as estimated (J- and UJ, respectively). It is unlikely that low-biased results or false negative results were reported for these five EDB samples.

In the original TPH diesel analysis by EPA Method SW8015B, TPH diesel was reported as nondetected in the primary sample (GW0511), but at 6.79 parts per million (ppm) in the duplicate sample. As a result, the duplicate pair was re-extracted; however the re-extraction occurred 16 days after the 7-day extraction holding time had expired. TPH diesel concentrations from the re-analysis were reported at 7.31 and 8.71 ppm in the primary sample (GW0511) and its duplicate (GW0512), respectively, and were qualified as estimated (J-) because of the additional sample storage time. The TPH diesel results in the duplicate pair from the re-analysis are comparable and are reported in this quarterly report.

Except as noted, the extraction and analysis holding time requirements were met for all other samples and methods.

1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and for each analytical method. Positive analyte detections in the laboratory method blanks were observed for EPA Method SW8260B. Specific contaminants, their detected levels, and the LOQs are summarized as follows:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (ppb)	LOQ (ppb)
SW8260B	2D13002	Hexachlorobutadiene	0.28	1.0
	2D16005	Hexachlorobutadiene	0.36	1.0
	2E03012	Hexachlorobutadiene	0.31	1.0
	2E07001	Hexachlorobutadiene	0.28	1.0

Based on the DoD QSM requirements (DoD, 2010), laboratory method blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants, such as acetone and methylene chloride. As indicated in the preceding table, all four laboratory method blank levels are less than one-half the LOQ and thus meet the blank acceptance criteria. None of these blank detections has any impact on the data quality of the sample results as the analyte hexachlorobutadiene was not detected in samples processed with these laboratory method blanks. No data qualification was applied to any sample results because of the laboratory method blank detections.

Except as noted, no other target analytes were detected in laboratory method blanks for SVOCs, PAHs, EDB, TPH as gasoline or diesel, metals, sulfide, ammonia as nitrogen, anions, and alkalinity analyses.

1.1.3 Initial and Continuing Calibration Blanks (Reason Code B2)

Initial and continuing calibration blanks were analyzed for metal, anion, nitrate and nitrite as nitrogen, and ammonia as nitrogen analyses, to ensure that instrumentation was free of contamination prior to the analyses. One positive result in a CCB was reported for EPA Method 300.0, shown as follows:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (ppm)	LOQ (ppm)
EPA 300.0	2E12211-CCB5	Chloride	0.27	1.0

The chloride detection in the CCB is below one-half the LOQ and thus meets the calibration blank acceptance criteria defined in the DoD QSM (DoD, 2010). The chloride blank detection does not affect the data quality of the sample results as the concentrations of chloride in the associated samples exceed five times the level reported in the CCB. No data qualification was required as a result of the chloride calibration blank detection. All other initial and continuing calibration blanks were free of metals, nitrate and nitrite as nitrogen and ammonia as nitrogen detections.

1.1.4 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate matrix effect and method performance on an individual sample basis. Acceptable surrogate recoveries were reported for all samples analyzed for VOCs, PAHs, and TPH gasoline. Surrogate recovery outliers were observed for a few samples analyzed for SVOCs and TPH diesel.

One surrogate recovery in either the acid fraction or neutral/base fraction in three SVOC samples was outside the control criteria. The recoveries of the remaining surrogates in the same SVOC samples meet the method criteria. Data qualification is applied only to the SVOC sample results when more than one of the surrogates either in the acid or base/neutral fractions are recovered outside the control criteria.

As a result of the elevated TPH diesel concentration in one sample, the laboratory performed necessary dilutions on the sample to bring the concentration of TPH diesel within the instrument range. In this case, surrogates were diluted out of measurable range in the affected sample. No data qualification was applied to the associated sample results.

Surrogate spiking is not a requirement for samples analyzed for EDB by EPA Method SW8011. The bias of the EDB analysis is assessed through LCS/LCSD and MS/MSD recoveries.

1.1.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precision Results (Reason Code L)

The LCS is an aliquot of analyte-free matrix spiked with target analytes that is prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. A number of LCS and LCSD recovery biases were reported for EPA Method SW8270C for two analytes. The LCS recovery outliers that resulted in data qualification are presented as follows:

Analytical Method	Laboratory QC Batch #	LCS Recovery Outlier (%)	Control Limit (%)
SW8270C	2D13010	Caprolactam: 19.9%	20-110%
	2D23009	Caprolactam: 19.3%	20-110%
	2D30008	Caprolactam: 17.6/16.9%	20-110%
	2E04003	Caprolactam: 16.1%	20-110%
	2E08006	Caprolactam: 14.3%	20-110%
	2E10006	Caprolactam: 12.9/14.5%	20-110%
	2E11005	Caprolactam: 17.2%	20-110%
	2E11005	Acetophenone: 98.7/121%	20-110%

As shown in the table, the LCSD recovery for the analyte acetophenone exceeds its upper control limit; however, the LCS recovery is acceptable. As a result of the high-biased LCSD recovery, the detected results for acetophenone were qualified as estimated (J+) with a potential high bias. The low biased LCS or LCS and LCSD recoveries for the analyte caprolactam led to qualification of the detected results and

the LOQs for nondetected results as estimated (J- and UJ, respectively). Although for the Second Quarter 2012 groundwater monitoring event, the majority of the LCS recoveries for the analyte caprolactam fall below the lower control limit, the analyte has not been identified as a chemical of concern at the site; thus data qualification of sample results for this analyte has minimal impact on the project data quality objectives. Surrogate recoveries for all SVOC samples qualified for the LCS recovery outliers were recovered within the accuracy specification, indicating acceptable sample preparation procedures.

In all cases, data qualification was applied to the control criteria exceedances for the listed analytes in all samples in the batch. As presented in the preceding table, the reported LCS recoveries do not significantly deviate from their control limits and thus the data usability of the qualified data is not affected.

In addition, high-biased LCS recoveries and precisions were observed for other VOCs and SVOCs in several batches; however, as these analytes were not detected in any associated samples, no data qualification was warranted.

The LCS results meet the acceptance criteria for PAHs, TPH as gasoline and diesel, metal, ammonia as nitrogen, nitrate and nitrate as nitrogen, sulfide, and alkalinity analyses. Additionally, the LCS bias and precision results are within the acceptable control criteria for both the primary and secondary columns for the EDB analysis by EPA Method SW8011.

1.1.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Precision Results (Reason Code M)

The MS and MSD samples are a portion of a field sample spiked with target analytes that are prepared with each analytical and method. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference and to measure bias and precision for each analytical batch.

In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), the MS/MSD samples are to be collected at a rate of 1 per 20 groundwater samples or 5%. During the Second Quarter 2012 groundwater monitoring event, five MS/MSD samples were collected from locations 2819R-CRT, KAFB-106101, KAFB-106053, KAFB-106036, KAFB-106074; therefore, the 5% MS/MSD sample frequency goal was achieved for all methods. Although additional MS/MSD sample volume was not provided to the laboratory for all parameters, the laboratory still performed MS/MSD analyses for Kirtland Air Force Base (AFB) BFF Spill site-specific groundwater samples to verify the presence of a matrix effect and its potential impact on the precision and bias of the analytical results.

The following Kirtland AFB BFF Spill site-specific groundwater samples were spiked for MS/MSD analysis:

Well Location	Sample Number	MS/MSD Analysis
2819R-CRT	GW0499	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106101	GW0614	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106053	GW0558	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106036	GW0538	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106074	GW0581	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-003	GW0500	TPH as gasoline, anions, ammonia as nitrogen, and alkalinity
KAFB-106001	GW0506	Anions
KAFB-106019	GW0523	Anions, nitrate and nitrite as nitrogen
KAFB-106026	GW0529	TPH as gasoline, ammonia as nitrogen, and alkalinity
KAFB-106042	GW0544	Anions
KAFB-106044	GW0548	Alkalinity
KAFB-106072	GW0579	Metals
KAFB-106084	GW0592	Metals
KAFB-106096	GW0605	Nitrate and nitrite as nitrogen
KAFB-3411	GW0505	TPH as gasoline and alkalinity
KAFB-106046	GW0550	Alkalinity
KAFB-106011	GW0515	Ammonia as nitrogen
KAFB-106029	GW0530	Anions
KAFB-106065	GW0571	Alkalinity
KAFB-106050	GW0554	Anions
KAFB-106104	GW0618	Anions

Well Location	Sample Number	MS/MSD Analysis
KAFB-106004	GW0609	Anions
KAFB-106008	GW0511	Anions and alkalinity
KAFB-106014	GW0517	Metals
KAFB-106061	GW0565	Anions
KAFB-106078	GW0585	Ammonia as nitrogen
KAFB-106080	GW0587	Ammonia as nitrogen and alkalinity

The majority of the MS results meet the established bias and precision requirements; however, MS recovery biases were observed for the SVOC, metal, and nitrate analyses, summarized as follows:

Analytical Method	Spiked Sample	MS Recovery Outlier (%)	Control Limit (%)
SW8270C	GW0558	Caprolactam: 20.3/18.7%	20-110%
	GW0538	Caprolactam: 16.2%	20-110%
	GW0581	Caprolactam: 11.8%	20-110%
SW6010B	GW0614	Calcium: 71/33.5%	80-120%
	GW0614	Sodium: 122/94%	80-120%
	GW0538	Calcium: 122/133%	80-120%
EPA 353.2	GW0558	Nitrate: 111/111%	90-110%

In the spiked samples (GW0558, GW0538, and GW0581), the analyte caprolactam analyzed by EPA Method SW8270C was not detected. As a result of the low-biased MS recoveries indicated in the table, the analyte LOQ was qualified as estimated (UJ). Additionally, nitrate in the spiked sample (GW0558) was recovered slightly higher than the upper control limit in both the MS and MSD samples. The high MS/MSD recoveries led to qualification of the detected nitrate result as estimated (J+). This data qualification was applied to the results for caprolactam and nitrate in the spiked samples only. As presented in the table, the reported MS recoveries for both analytes do not significantly deviate from the lower or upper control limits; therefore, the data usability of the qualified results is not affected.

As shown in the preceding table, the reported MS recoveries for calcium and sodium exceed the upper or lower control limits in both spiked samples (GW0614 and GW0538). These non-compliant MS results could be attributed to a matrix effect. In the spiked samples the parent concentrations of calcium and

sodium far exceed four times the spiked level. These elevated sample concentrations produced matrix interference, which led to the non-compliant MS recoveries. Because the sample concentrations are greater than four times the spiked levels, no data qualification was applied to the calcium and sodium results.

Except as noted, the MS precision and bias results are acceptable for all other analyses.

1.1.7 Initial Calibration (Reason Code G)

Instrument calibration is performed for VOCs, PAHs, SVOCs, EDB, TPH as gasoline and diesel, metal, anion, ammonia as nitrogen, and nitrate and nitrite as nitrogen analyses according to the EPA method requirements (EPA, 1996). The linear analytical range is established for each method by analysis of calibration standards prepared at increasing concentrations that cover the expected sample concentrations. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient. The initial calibration results are acceptable for all the listed methods.

Immediately after the initial calibration for each method, initial calibration verification (ICV) was conducted at the mid-point of instrument calibration range by using a second source calibration standard to verify the accuracy of the initial calibration. The review indicated acceptable ICV results for all target analytes.

1.1.8 Continuing Calibration Verification (Reason Code C)

Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference (%D) values between the relative response factor (RRF) in the initial calibration and the RRF in the continuing calibration exceed the acceptance criteria for VOC and PAH analyses for

the analytes listed in the following table. The continuing calibration verification (CCV) outliers that resulted in data qualification are summarized as follows:

Analytical Method	Calibration ID	CCV Outlier (%)	Control Limit (%)
SW8260B	2D10704--CCV1	Bromomethane: -20.5%	<20%
	2D10810-CCV1	Bromomethane: -23.2%	<20%
	2D10810-CCV1	Chloromethane: -21.6%	<20%
	2E12303-CCV1	Dichlorodifluoromethane: +26.1%	<20%
	2E12505-CCV1	Bromomethane: -22.1%	<20%
	2E12505-CCV1	Chloromethane: -24.3%	<20%
	2E12512-CCV1	Hexachlorobutadiene: -22.3%	<20%
	2E12804-CCV1	Bromomethane: -21.4%	<20%
	2E12903-CCV1	Bromomethane: -25.4%	<20%
	2E12903-CCV1	Chloromethane: -25.6%	<20%
	2E13201-CCV1	Acetone: -21.6%	<20%
	2E13604-CCV1	Chloromethane: -21.7%	<20%
	2E13704-CCV1	Bromomethane: -27.7%	<20%
	2E13704-CCV1	Chloromethane: -23.4%	<20%
2E13906-CCV1	Bromomethane: -21.6%	<20%	
SW8270C, LL	1D16613-CCV1	Naphthalene: -24.3%	<20%

LL low level

As a result of the low-biased %D values, the detected results and the LOQs for the nondetected analytes were qualified as estimated (J- and UJ, respectively). The high-biased %D values led to qualification of the detected results as estimated (J+), but do not affect the nondetected results. This data qualification was applied to the results for the listed analytes in all samples associated with the non-compliant CCVs. In all cases, the degree of calibration exceedances for the listed VOC and PAH analytes is minimal and therefore does not impact data usability..

Additionally, high-biased %D values were reported for other VOCs and SVOCs. Because these analytes were not detected in samples associated with the CCV outliers, the high-biased %D values do not affect the sample results and therefore did not warrant any data qualification. Except as noted, the CCV results are acceptable for all other analyses.

1.1.9 Interference Check Samples (Reason Code O)

The ICP ICS verifies the inter-element and background correction factors. An ICS was analyzed at the required frequencies, and all ICS results are within the established control limit for EPA Method SW6010B for the Second Quarter 2012 groundwater monitoring event.

1.1.10 ICP Serial Dilutions (Reason Code A)

The ICP serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution was performed on six project samples (GW0579, GW0614, GW0499, GW0558, GW0538, and GW0581) collected during the Second Quarter 2012 groundwater monitoring event. The following %D between the original analysis and the diluted analysis exceeds the control limit:

Analytical Method	Sample ID	ICP Serial Dilution Outlier (%)	Control Limit (%)
SW6010B	GW0579	Manganese: +17.4%	<10%

The ICP serial dilution outlier led to qualification of the detected manganese result as estimated (J) in the sample. As required by the site-specific BFF Spill QAPjP (USACE, 2011) and DoD QSM (DoD, 2010), the laboratory performed the post-digestion spike analysis on the sample and reported acceptable post-digestion spike recovery for the analyte. The ICP serial dilution results meet the accuracy goal for all other metals and for all other five samples.

1.1.11 Sample Confirmation (Reason Code D)

As required by the DoD and EPA, when samples are analyzed by either the gas chromatography or high-performance liquid chromatography method, all positive results, with the exception of TPH as gasoline and diesel, must be confirmed by a second column or a different detector. As indicated in all five SDGs for the Second Quarter 2012 groundwater monitoring event, all positive EDB results analyzed by EPA

Method SW8011 were confirmed by a second column, and the precision results between the primary and secondary columns are within the precision control limit for all the detected samples with the following exceptions:

Analytical Method	Sample ID	Precision Outlier (%)	Control Limit (%)
SW8011	GW0528	EDB RPD: 71%	<40%
	GW0580	EDB RPD: 55%	<40%
	GW0591	EDB RPD: 53%	<40%

As indicated, the reported precisions for the listed samples exceed the acceptable precision control limit of less than or equal to 40%. As a result of the non-compliant precisions, the detected EDB results in the affected samples were qualified as estimated (J). There is no impact on the data usability because of this data quality outlier. It should be noted that the associated LCSD RPD results in the LCS analysis meet the precision requirement, indicating acceptable laboratory batch precision.

The analyte EDB was analyzed in all groundwater samples by both EPA Methods SW8011 and SW8260B. During the data review, the EDB results for the analysis by EPA Method SW8011 were also compared with the EDB results analyzed by EPA Method SW8260B. In most cases, the detected EDB results between the two methods are comparable and in agreement. In cases where the results are not comparable, samples are re-analyzed.

1.1.12 Ambient Blanks (Reason Code K2)

Ambient blanks serve as a check to monitor environmental contamination from sample exposure during the sampling effort. The ambient blanks are prepared by the laboratory by pouring distilled water into clean sample containers. The ambient blanks are then shipped to the field and exposed at the time of sample collection and at a particular well location. Ambient blanks are analyzed for VOCs only.

As described in the site-specific BFF Spill QAPjP (USACE, 2011), ambient blanks are to be collected at a minimum rate of 5% of the total number of groundwater samples. During the Second Quarter 2012 groundwater monitoring event, a total of six ambient blanks were collected, thereby achieving the ambient blank sample frequency requirement of 5%. All six ambient blanks collected during Second Quarter 2012 were free of VOC contamination.

1.1.13 Trip Blanks (Reason Code K3)

Trip blanks were prepared by the laboratory and stored with the groundwater samples collected for VOCs analysis. One trip blank was submitted with VOCs samples collected on each day of sample collection during the period of April 4 through May 14, 2012, which resulted in a total of 19 trip blanks for the entire Second Quarter 2012 groundwater monitoring event. Appendix B1 – Table 4 summarizes the detected trip blank results and associated sample results. Positive results reported for two trip blanks are summarized as follows:

Analytical Method	Trip Blank	Contaminant	Contaminant Level (ppb)	LOQ (ppb)
SW8260B	GW8193-TB	Toluene	0.3	1.0
	GW8196-TB	1,1-Dichloropropene	6.7	1.0
	GW8196-TB	1,2-Dichloroethane	1.2	1.0
	GW8196-TB	1,3-Dichloropropane	0.84	1.0
	GW8196-TB	Dibromochloromethane	0.76	1.0

TB Trip Blank

The toluene detection in the trip blank GW8193-TB is less than one-half the LOQ and meets the blank acceptance criteria defined in the DoD QSM (DoD, 2010) and site-specific BFF Spill QAPjP (USACE, 2011); the analyte detections in the trip blank GW8196-TB exceed the blank acceptance criteria.

Due to the trip blank detection, the detected results for toluene in two associated samples (GW0560 and GW0606) were qualified as nondetected (U) at the LOQ. This blank qualification has no impact on the data usability. As presented in Appendix B1 – Table 4, all the groundwater samples shipped with the trip

blank GW8196-TB were free of 1,1-dichloropropene; 1,2-dichloroethane; 1,3-dichloropropane; and dibromochloromethane; thus the groundwater sample results are not affected by the trip blank detections. No VOCs were detected in any of the remaining 17 trip blanks. Therefore, the trip blank results are acceptable and demonstrate that valid sample storage and shipping procedures are being implemented.

1.1.14 Equipment Rinse Blanks (Reason Code K1)

Equipment rinse blanks are designed to check for contamination from sampling equipment, and the results for the equipment rinse blanks are used to evaluate the efficiency of equipment decontamination procedures.

During the Second Quarter 2012 groundwater monitoring event, dedicated sampling equipment was used to collect the majority of the groundwater samples. As no cross-contamination between wells could occur, no equipment rinse blanks were necessary in these cases.

However, non-dedicated sampling equipment was used to collect a number of groundwater samples, and two equipment rinse blanks were collected during the Second Quarter 2012 groundwater monitoring event. Both equipment rinse blank samples were prepared by rinsing the decontaminated pump with the distilled water and then collecting the final rinse water into appropriate sample containers. The equipment rinse blank samples were analyzed for VOCs, SVOCs, TPH as gasoline and diesel, and metals.

Appendix B1 – Table 5 summarizes the detected equipment rinse blank results and associated sample results. Positive results for the equipment rinse blanks are presented as follows:

Analytical Method	Equipment Rinse Blank	Number of Contaminants	Detection Range (ppb)	LOQ Range (ppb)
SW8260B	GW8050-RB	1	3.45	10
SW8270C	GW8050-RB	1	5.01	4.9
GW8260B	GW8051-RB	2	0.26-5.15	1-10
GW8270C	GW8051-RB	2	2.27-5.04	4.9
GW8015B TPH diesel	GW8051-RB	1	0.214 ppm	0.392 ppm

Due to the equipment rinse blank detections in GW8050-RB, the detected results for one VOC and one SVOC in the associated groundwater sample (GW0509) were qualified as nondetected (U) at the reported value. This blank qualification has no effect on the usability of the sample results. The VOC, SVOC, and TPH diesel detections in the equipment rinse blank GW8051-RB do not affect the data quality of the groundwater sample results, as the VOC, SVOC, and TPH diesel were not detected in the samples associated with this equipment rinse blank. Overall, the majority of the sample results are not affected by the equipment rinse blank detections, indicating effective equipment decontamination procedures where applicable.

1.1.15 Field Duplicates

In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), field duplicate samples are to be collected at a minimum rate of 10% of the total number of groundwater samples. Field duplicate samples are evaluated by calculating the RPD between the parent sample and its duplicate. The RPD is calculated using the following equation:

$$RPD = \frac{|S-D|}{[(S+D)/2]} \times 100$$

where:

S = sample result
D = duplicate result

Acceptable precision control criteria are established at less than or equal to 35% for water samples. The RPD is calculated between pairs of field duplicate samples when both results are reported above the LOQ.

Twelve field duplicate pairs were collected during the Second Quarter 2012 groundwater monitoring event; therefore, the 10% field duplicate frequency requirement was achieved. The duplicate pairs were collected from locations KAFB-106008, KAFB-106019, KAFB-106033, KAFB-106042, KAFB-106051, KAFB-106063, KAFB-106071, KAFB-106081, KAFB-106091, KAFB-106099, KAFB-106106, and

ST106-VA2. All 12 pairs were analyzed for VOCs, SVOCs, EDB, TPH as gasoline and diesel, total and dissolved metals, anions, sulfide, ammonia as nitrogen, nitrate and nitrite as nitrogen, and alkalinity. At location ST106-VA2, the duplicate pair was also analyzed for PAHs. Appendix B1 – Table 6 presents the field duplicate results.

The RPDs for detected analytes were between 0 and 17.5%, well within the 35% field duplicate precision criteria. Overall, the field duplicate results demonstrate acceptable field sampling and analytical precision for all methods.

1.2 Completeness

The following sections present a discussion of contractual, analytical, and technical completeness for the Second Quarter 2012 groundwater monitoring event. Completeness calculations were performed only for the groundwater samples that are used for project decisions. For informational purposes, completeness calculations were also calculated for the field QC samples. Completeness results are presented in Appendix B1 – Table 7.

1.2.1 Contractual Completeness

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to method performance. These include data qualified for calibration or preparation blank contamination, missed holding times, and LCS recovery and /or precision exceedances of method criteria. The contractual completeness goal is 95%. Contractual completeness is calculated as follows:

$$\% \text{ Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the Second Quarter 2012 groundwater monitoring event, the contractual completeness goal was achieved as follows:

- EDB by EPA Method SW8011 – 95%
- TPH diesel by EPA Method SW8015B – 98.3%
- VOCs by EPA Method SW8260B – 98.8%
- SVOCs by EPA Method SW8270C – 99.1%
- Other Methods – 100%

As shown, the 95% contractual completeness requirement was achieved or exceeded for all methods.

1.2.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on the target analytes qualified for exceedances of QC requirements based on calibration, LCS, MS/MSD, surrogate, method precision, and laboratory method blank contamination results. The analytical completeness goal is 90% for the project.

Analytical completeness is calculated as follows:

$$\% \text{ Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the Second Quarter 2012 groundwater monitoring event, the analytical completeness goal was achieved as follows:

- Nitrate and Nitrite as Nitrogen by EPA Method 353.2 – 99.2%
- Metals by EPA Method SW6010B – 99.9%
- EDB by EPA Method SW8011 – 92.6%
- TPH diesel by EPA Method SW8015B – 97.5%
- VOCs by EPA Method SW8260B – 98.7%

- SVOCs by EPA Method SW8270C – 99.1%
- PAHs by EPA Method SW8270C Low Level – 94.4%
- All other methods – 100%

As shown, the 90% analytical completeness goal was achieved or exceeded for all methods. While a few sample results were qualified as estimated or nondetected due to various QC outliers discussed in the previous sections, the data usability is not affected. Qualified data are still usable to achieve the project data quality objectives.

1.2.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each method is equal to or greater than 95%. The technical completeness calculation considers all data that are not rejected to be usable. The technical completeness is calculated as follows:

$$\% \text{ Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

Despite the exceedances noted, the technical completeness is 100% for all methods, exceeding the 95% technical completeness objective. Therefore, the project data quality objectives were achieved for the Second Quarter 2012 groundwater monitoring event.

1.3 Summary

The analytical data reported for this event have been reviewed for precision, bias, representativeness, comparability, and completeness. Data quality exceedances consist of holding time exceedances, biased LCS/LCSD and MS/MSD recoveries; continuing calibration outliers; non-compliant ICP serial dilution; and low-level laboratory and field blank sample contamination. The affected data were qualified as

estimated detected or nondetected results. Estimated data are still usable to achieve project data quality objectives.

The 95% technical completeness goal was exceeded for all methods for the Second Quarter 2012 groundwater monitoring event. All data are usable for the intended purpose to support the BFF site remediation activities.

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TABLES

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Appendix B1 – Table 1. Groundwater Sample Delivery Groups, April – June 2012

Location	Sample Date	Sample Number	SDG	Type
KAFB-003	4/4/2012	GW0500	KIRTLAND_049	WG
KAFB-015	4/4/2012	GW0501	KIRTLAND_049	WG
KAFB-016	4/4/2012	GW0502	KIRTLAND_049	WG
KAFB-106001	4/11/2012	GW0506	KIRTLAND_049	WG
KAFB-106002	5/3/2012	GW0507	KIRTLAND_052	WG
KAFB-106003	4/17/2012	GW0613	KIRTLAND_050	WG
KAFB-106004	5/9/2012	GW0609	KIRTLAND_053	WG
KAFB-106005	5/9/2012	GW0508	KIRTLAND_053	WG
KAFB-106006	5/10/2012	GW0509	KIRTLAND_053	WG
KAFB-106007	4/11/2012	GW0510	KIRTLAND_049	WG
KAFB-106008	5/9/2012	GW0511	KIRTLAND_053	WG
KAFB-106008	5/9/2012	GW0512	KIRTLAND_053	WG
KAFB-106009	5/9/2012	GW0513	KIRTLAND_053	WG
KAFB-106010	4/26/2012	GW0514	KIRTLAND_051	WG
KAFB-106011	4/26/2012	GW0515	KIRTLAND_051	WG
KAFB-106013	4/18/2012	GW0606	KIRTLAND_050	WG
KAFB-106014	5/7/2012	GW0517	KIRTLAND_053	WG
KAFB-106015	5/7/2012	GW0518	KIRTLAND_053	WG
KAFB-106016	4/18/2012	GW0519	KIRTLAND_050	WG
KAFB-106017	4/4/2012	GW0520	KIRTLAND_049	WG
KAFB-106018	4/4/2012	GW0521	KIRTLAND_049	WG
KAFB-106019	4/4/2012	GW0522	KIRTLAND_049	WG
KAFB-106019	4/4/2012	GW0523	KIRTLAND_049	WG
KAFB-106020	5/3/2012	GW0524	KIRTLAND_052	WG
KAFB-106021	5/1/2012	GW0525	KIRTLAND_052	WG
KAFB-106022	4/30/2012	GW0526	KIRTLAND_052	WG
KAFB-106023	5/2/2012	GW0616	KIRTLAND_052	WG
KAFB-106024	4/12/2012	GW0527	KIRTLAND_049	WG
KAFB-106025	4/19/2012	GW0528	KIRTLAND_050	WG
KAFB-106026	4/9/2012	GW0529	KIRTLAND_049	WG
KAFB-106027	4/12/2012	GW0547	KIRTLAND_049	WG
KAFB-106028	5/9/2012	GW0570	KIRTLAND_053	WG
KAFB-106029	4/27/2012	GW0530	KIRTLAND_051	WG
KAFB-106030	4/27/2012	GW0531	KIRTLAND_051	WG
KAFB-106031	4/27/2012	GW0532	KIRTLAND_051	WG
KAFB-106032	4/16/2012	GW0533	KIRTLAND_050	WG
KAFB-106033	4/18/2012	GW0534	KIRTLAND_050	WG
KAFB-106033	4/18/2012	GW0535	KIRTLAND_050	WG
KAFB-106034	4/16/2012	GW0536	KIRTLAND_050	WG
KAFB-106035	5/2/2012	GW0537	KIRTLAND_052	WG
KAFB-106036	5/2/2012	GW0538	KIRTLAND_052	WG
KAFB-106037	5/2/2012	GW0539	KIRTLAND_052	WG
KAFB-106038	4/23/2012	GW0540	KIRTLAND_051	WG
KAFB-106039	4/23/2012	GW0541	KIRTLAND_051	WG
KAFB-106040	4/23/2012	GW0542	KIRTLAND_051	WG
KAFB-106042	4/10/2012	GW0544	KIRTLAND_049	WG
KAFB-106042	4/10/2012	GW0545	KIRTLAND_049	WG
KAFB-106043	4/10/2012	GW0546	KIRTLAND_049	WG
KAFB-106044	4/12/2012	GW0548	KIRTLAND_049	WG
KAFB-106045	4/12/2012	GW0549	KIRTLAND_049	WG
KAFB-106046	4/19/2012	GW0550	KIRTLAND_050	WG
KAFB-106047	4/19/2012	GW0551	KIRTLAND_050	WG
KAFB-106048	4/19/2012	GW0552	KIRTLAND_050	WG

**Appendix B1 – Table 1. Groundwater Sample Delivery Groups, April – June 2012
(continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106049	4/30/2012	GW0553	KIRTLAND_052	WG
KAFB-106050	4/30/2012	GW0554	KIRTLAND_052	WG
KAFB-106051	5/3/2012	GW0555	KIRTLAND_052	WG
KAFB-106051	5/3/2012	GW0556	KIRTLAND_052	WG
KAFB-106052	4/24/2012	GW0557	KIRTLAND_051	WG
KAFB-106053	4/24/2012	GW0558	KIRTLAND_051	WG
KAFB-106054	4/24/2012	GW0559	KIRTLAND_051	WG
KAFB-106055	4/17/2012	GW0560	KIRTLAND_050	WG
KAFB-106057	5/2/2012	GW0561	KIRTLAND_052	WG
KAFB-106058	4/17/2012	GW0562	KIRTLAND_050	WG
KAFB-106059	5/7/2012	GW0563	KIRTLAND_053	WG
KAFB-106060	5/7/2012	GW0564	KIRTLAND_053	WG
KAFB-106061	5/7/2012	GW0565	KIRTLAND_053	WG
KAFB-106062	4/24/2012	GW0566	KIRTLAND_051	WG
KAFB-106063	4/24/2012	GW0567	KIRTLAND_051	WG
KAFB-106063	4/24/2012	GW0568	KIRTLAND_051	WG
KAFB-106064	4/24/2012	GW0569	KIRTLAND_051	WG
KAFB-106065	4/25/2012	GW0571	KIRTLAND_051	WG
KAFB-106066	4/25/2012	GW0572	KIRTLAND_051	WG
KAFB-106067	4/25/2012	GW0573	KIRTLAND_051	WG
KAFB-106068	4/25/2012	GW0574	KIRTLAND_051	WG
KAFB-106069	4/25/2012	GW0575	KIRTLAND_051	WG
KAFB-106070	4/12/2012	GW0576	KIRTLAND_049	WG
KAFB-106071	4/12/2012	GW0577	KIRTLAND_049	WG
KAFB-106071	4/12/2012	GW0578	KIRTLAND_049	WG
KAFB-106072	4/12/2012	GW0579	KIRTLAND_049	WG
KAFB-106073	5/3/2012	GW0580	KIRTLAND_052	WG
KAFB-106074	5/3/2012	GW0581	KIRTLAND_052	WG
KAFB-106075	5/3/2012	GW0582	KIRTLAND_052	WG
KAFB-106076	5/10/2012	GW0583	KIRTLAND_053	WG
KAFB-106077	5/10/2012	GW0584	KIRTLAND_053	WG
KAFB-106078	5/14/2012	GW0585	KIRTLAND_053	WG
KAFB-106079	5/8/2012	GW0586	KIRTLAND_053	WG
KAFB-106080	5/8/2012	GW0587	KIRTLAND_053	WG
KAFB-106081	5/8/2012	GW0588	KIRTLAND_053	WG
KAFB-106081	5/8/2012	GW0589	KIRTLAND_053	WG
KAFB-106082	4/9/2012	GW0590	KIRTLAND_049	WG
KAFB-106083	4/9/2012	GW0591	KIRTLAND_049	WG
KAFB-106084	4/9/2012	GW0592	KIRTLAND_049	WG
KAFB-106085	4/26/2012	GW0593	KIRTLAND_051	WG
KAFB-106086	4/26/2012	GW0594	KIRTLAND_051	WG
KAFB-106087	4/26/2012	GW0595	KIRTLAND_051	WG
KAFB-106088	4/10/2012	GW0596	KIRTLAND_049	WG
KAFB-106089	4/10/2012	GW0597	KIRTLAND_049	WG
KAFB-106090	4/10/2012	GW0598	KIRTLAND_049	WG
KAFB-106091	5/9/2012	GW0599	KIRTLAND_053	WG
KAFB-106091	5/9/2012	GW0600	KIRTLAND_053	WG
KAFB-106092	5/1/2012	GW0601	KIRTLAND_052	WG
KAFB-106093	5/1/2012	GW0602	KIRTLAND_052	WG
KAFB-106094	4/19/2012	GW0603	KIRTLAND_050	WG
KAFB-106095	4/9/2012	GW0604	KIRTLAND_049	WG
KAFB-106096	4/11/2012	GW0605	KIRTLAND_049	WG
KAFB-106097	4/18/2012	GW0607	KIRTLAND_050	WG

**Appendix B1 – Table 1. Groundwater Sample Delivery Groups, April – June 2012
(concluded)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106099	5/8/2012	GW0611	KIRTLAND_053	WG
KAFB-106100	5/8/2012	GW0612	KIRTLAND_053	WG
KAFB-106101	4/17/2012	GW0614	KIRTLAND_050	WG
KAFB-106102	4/17/2012	GW0615	KIRTLAND_050	WG
KAFB-106103	4/30/2012	GW0617	KIRTLAND_052	WG
KAFB-106104	4/30/2012	GW0618	KIRTLAND_052	WG
KAFB-106105	4/23/2012	GW0619	KIRTLAND_051	WG
KAFB-106106	4/23/2012	GW0620	KIRTLAND_051	WG
KAFB-106106	4/23/2012	GW0621	KIRTLAND_051	WG
KAFB-106107	4/23/2012	GW0622	KIRTLAND_051	WG
KAFB-3411	4/10/2012	GW0505	KIRTLAND_049	WG
ST106-VA2	4/4/2012	GW0503	KIRTLAND_049	WG
ST106-VA2	4/4/2012	GW0504	KIRTLAND_049	WG
KAFB-106099	5/8/2012	GW0611	KIRTLAND_053	WG
KAFB-106100	5/8/2012	GW0612	KIRTLAND_053	WG

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Appendix B1 – Table 2. Data Qualification Flags and Reason Codes

Data Qualifier Definitions for Organic Data Review

Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported limit of quantitation.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; associated numerical value is its approximate concentration with a high bias in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value represents its approximate concentration.
UJ	The analyte was not detected above the reported limit of quantitation. However, the reported limit of quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are <u>unusable</u> for any purposes.

Data Qualifier Definitions For Inorganic Data Review

Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the level of the reported value. The reported value is the limit of quantitation for waters and soils for all the analytes except cyanide (CN) and mercury (Hg). For CN and Hg, the reported value is the contract-required detection limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; associated numerical value is its approximate concentration with a high bias in the sample.
UJ	The analyte was analyzed for but was not detected above the reported value. The reported value may not accurately or precisely represent the sample limit of quantitation.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are <u>unusable</u> for any purposes.

Appendix B1 – Table 2. Data Qualification Flags and Reason Codes (concluded)

Reason Codes for Data Review and Validation

Reason Code	Description
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag “-“	Calibration blank indicates negative interference, false negatives may be present.
C	Calibration outside control limits.
D	Sample results precision between primary and secondary columns outside control limit
D1	Sample duplicate RPD outside control limit.
D2	Matrix duplicate RPD outside control limit.
D3	Laboratory control sample duplicate RPD outside control limit.
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration relative standard deviation outside control limit.
G2	Initial continuing calibration RRF outside control limit.
G3	Continuing calibration RRF outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Ambient blank contamination.
K3	Trip blank contamination.
L	LCS outside control limits.
M	MS outside control limits.
O	Interference check sample outside acceptance criteria.
P	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the DL and LOQ.
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.

Appendix B1 - Table 3
Qualified Data Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code A		Method SW6010B-DISS								
GW0579	REG	4/12/2012	Manganese	KIRTLAND_049	22.2	3	15	1	ug/L	J
Reason Code C		Method SW8260B								
GW0505	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0505	REG	4/10/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0506	REG	4/11/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0506	REG	4/11/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0507	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0507	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0508	REG	5/9/2012	Chloromethane	KIRTLAND_053	ND	1.25	5	5	ug/L	UJ
GW0509	REG	5/10/2012	Chloromethane	KIRTLAND_053	ND	0.5	2	2	ug/L	UJ
GW0510	REG	4/11/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0510	REG	4/11/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0513	REG	5/9/2012	Chloromethane	KIRTLAND_053	ND	25	100	100	ug/L	UJ
GW0514	REG	4/26/2012	Bromomethane	KIRTLAND_051	ND	50	200	100	ug/L	UJ
GW0514	REG	4/26/2012	Chloromethane	KIRTLAND_051	ND	25	100	100	ug/L	UJ
GW0515	REG	4/26/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW0515	REG	4/26/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0517	REG	5/7/2012	Acetone	KIRTLAND_053	2960	250	1000	100	ug/L	J-
GW0518	REG	5/7/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0524	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0524	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0525	REG	5/1/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0526	REG	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW0527	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0527	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0529	REG	4/9/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0530	REG	4/27/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW0530	REG	4/27/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0531	REG	4/27/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW0531	REG	4/27/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0532	REG	4/27/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C	Method SW8260B									
GW0532	REG	4/27/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0537	REG	5/2/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0537	REG	5/2/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0538	REG	5/2/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0539	REG	5/2/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0544	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0545	FD	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0546	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0547	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0547	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0548	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0548	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0549	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0549	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0553	REG	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW0554	REG	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW0555	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0555	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0556	FD	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0556	FD	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0561	REG	5/2/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0563	REG	5/7/2012	Acetone	KIRTLAND_053	1060	250	1000	100	ug/L	J-
GW0564	REG	5/7/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0565	REG	5/7/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0573	REG	4/25/2012	Bromomethane	KIRTLAND_051	ND	2.5	10	5	ug/L	UJ
GW0573	REG	4/25/2012	Chloromethane	KIRTLAND_051	ND	1.25	5	5	ug/L	UJ
GW0576	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0576	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0577	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0577	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C Method SW8260B										
GW0578	FD	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0578	FD	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0579	REG	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0579	REG	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0580	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	1	4	2	ug/L	UJ
GW0580	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.5	2	2	ug/L	UJ
GW0581	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0581	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0582	REG	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0582	REG	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0583	REG	5/10/2012	Bromomethane	KIRTLAND_053	ND	25	100	50	ug/L	UJ
GW0585	REG	5/14/2012	Bromomethane	KIRTLAND_053	ND	0.5	2	1	ug/L	UJ
GW0588	REG	5/8/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0589	FD	5/8/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0590	REG	4/9/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0591	REG	4/9/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0592	REG	4/9/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0594	REG	4/26/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW0594	REG	4/26/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0595	REG	4/26/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW0595	REG	4/26/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW0596	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0596	REG	4/10/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW0597	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0598	REG	4/10/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0601	REG	5/1/2012	Bromomethane	KIRTLAND_052	ND	2.5	10	5	ug/L	UJ
GW0602	REG	5/1/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW0604	REG	4/9/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0605	REG	4/11/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW0605	REG	4/11/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C		Method SW8260B								
GW0616	REG	5/2/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW0616	REG	5/2/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW0617	REG	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW0618	REG	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
Reason Code C		Method SW8270C-PAH								
GW0503	REG	4/4/2012	Naphthalene	KIRTLAND_049	ND	0.049	0.196	1	ug/L	UJ
GW0504	FD	4/4/2012	Naphthalene	KIRTLAND_049	ND	0.049	0.196	1	ug/L	UJ
Reason Code CTr		Method SW8260B								
GW0567	REG	4/24/2012	Dichlorodifluoromethane	KIRTLAND_051	1.28	0.5	2	1	ug/L	J+
GW0575	REG	4/25/2012	Dichlorodifluoromethane	KIRTLAND_051	1.12	0.5	2	1	ug/L	J+
GW0587	REG	5/8/2012	Acetone	KIRTLAND_053	204	125	500	50	ug/L	J-
Reason Code D		Method SW8011								
GW0528	REG	4/19/2012	1,2-Dibromoethane	KIRTLAND_050	0.0471	0.00959	0.0288	1	ug/L	J
GW0580	REG	5/3/2012	1,2-Dibromoethane	KIRTLAND_052	0.0656	0.00937	0.0281	1	ug/L	J
GW0591	REG	4/9/2012	1,2-Dibromoethane	KIRTLAND_049	0.101	0.00946	0.0284	1	ug/L	J
Reason Code H		Method SW8011								
GW0517	REG	5/7/2012	1,2-Dibromoethane	KIRTLAND_053	320	3.72	11.2	400	ug/L	J-
GW0518	REG	5/7/2012	1,2-Dibromoethane	KIRTLAND_053	ND	0.00935	0.0281	1	ug/L	UJ
GW0563	REG	5/7/2012	1,2-Dibromoethane	KIRTLAND_053	143	1.88	5.65	200	ug/L	J-
GW0564	REG	5/7/2012	1,2-Dibromoethane	KIRTLAND_053	ND	0.00945	0.0283	1	ug/L	UJ
GW0565	REG	5/7/2012	1,2-Dibromoethane	KIRTLAND_053	ND	0.00944	0.0283	1	ug/L	UJ
GW0597	REG	4/10/2012	1,2-Dibromoethane	KIRTLAND_049	0.344	0.00936	0.0281	1	ug/L	J-
Reason Code H		Method SW8015B								
GW0511	REG	5/9/2012	Diesel Range Organics (C10-C28)	KIRTLAND_053	7.31	0.472	1.89	5	mg/L	J-
GW0512	FD	5/9/2012	Diesel Range Organics (C10-C28)	KIRTLAND_053	8.71	0.481	1.92	5	mg/L	J-
Reason Code K1		Method SW8015B								
GW0509	REG	5/10/2012	Diesel Range Organics (C10-C28)	KIRTLAND_053	0.72	0.0943	0.377	1	mg/L	U
Reason Code K1		Method SW8270C								
GW0509	REG	5/10/2012	Acetophenone	KIRTLAND_053	5.55	1.18	4.72	1	ug/L	U
Reason Code K3		Method SW8260B								
GW0560	REG	4/17/2012	Toluene	KIRTLAND_050	ND	0.25	1	1	ug/L	U

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code K3			Method SW8260B							
GW0606	REG	4/18/2012	Toluene	KIRTLAND_050	ND	0.25	1	1	ug/L	U
Reason Code L			Method SW8270C							
GW0500	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0501	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.18	4.72	1	ug/L	UJ
GW0502	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.25	5	1	ug/L	UJ
GW0503	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0504	FD	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0507	REG	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.18	4.72	1	ug/L	UJ
GW0508	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	1.2	4.81	1	ug/L	UJ
GW0509	REG	5/10/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ
GW0511	REG	5/9/2012	Acetophenone	KIRTLAND_053	390	11.8	47.2	10	ug/L	J+
GW0511	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	11.8	47.2	10	ug/L	UJ
GW0512	FD	5/9/2012	Acetophenone	KIRTLAND_053	428	12	48.1	10	ug/L	J+
GW0512	FD	5/9/2012	Caprolactam	KIRTLAND_053	ND	12	48.1	10	ug/L	UJ
GW0513	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	59	236	50	ug/L	UJ
GW0514	REG	4/26/2012	Caprolactam	KIRTLAND_051	ND	12.1	48.5	10	ug/L	UJ
GW0517	REG	5/7/2012	Caprolactam	KIRTLAND_053	ND	61.3	245	50	ug/L	UJ
GW0518	REG	5/7/2012	Caprolactam	KIRTLAND_053	ND	1.23	4.9	1	ug/L	UJ
GW0519	REG	4/18/2012	Caprolactam	KIRTLAND_050	ND	1.23	4.9	1	ug/L	UJ
GW0520	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.19	4.76	1	ug/L	UJ
GW0521	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.2	4.81	1	ug/L	UJ
GW0522	REG	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0523	FD	4/4/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0524	REG	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.23	4.9	1	ug/L	UJ
GW0525	REG	5/1/2012	Caprolactam	KIRTLAND_052	ND	1.24	4.95	1	ug/L	UJ
GW0528	REG	4/19/2012	Caprolactam	KIRTLAND_050	ND	1.2	4.81	1	ug/L	UJ
GW0534	REG	4/18/2012	Caprolactam	KIRTLAND_050	ND	1.18	4.72	1	ug/L	UJ
GW0535	FD	4/18/2012	Caprolactam	KIRTLAND_050	ND	1.2	4.81	1	ug/L	UJ
GW0537	REG	5/2/2012	Caprolactam	KIRTLAND_052	ND	1.23	4.9	1	ug/L	UJ
GW0539	REG	5/2/2012	Caprolactam	KIRTLAND_052	ND	1.21	4.85	1	ug/L	UJ
GW0548	REG	4/12/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L	Method SW8270C									
GW0549	REG	4/12/2012	Caprolactam	KIRTLAND_049	ND	1.2	4.81	1	ug/L	UJ
GW0550	REG	4/19/2012	Caprolactam	KIRTLAND_050	ND	1.2	4.81	1	ug/L	UJ
GW0551	REG	4/19/2012	Caprolactam	KIRTLAND_050	ND	1.2	4.81	1	ug/L	UJ
GW0552	REG	4/19/2012	Caprolactam	KIRTLAND_050	ND	1.18	4.72	1	ug/L	UJ
GW0555	REG	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.18	4.72	1	ug/L	UJ
GW0556	FD	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.17	4.67	1	ug/L	UJ
GW0557	REG	4/24/2012	Caprolactam	KIRTLAND_051	ND	1.24	4.95	1	ug/L	UJ
GW0561	REG	5/2/2012	Caprolactam	KIRTLAND_052	ND	1.25	5	1	ug/L	UJ
GW0563	REG	5/7/2012	Caprolactam	KIRTLAND_053	ND	59	236	50	ug/L	UJ
GW0564	REG	5/7/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ
GW0565	REG	5/7/2012	Caprolactam	KIRTLAND_053	ND	1.17	4.67	1	ug/L	UJ
GW0569	REG	4/24/2012	Caprolactam	KIRTLAND_051	ND	12.4	49.5	10	ug/L	UJ
GW0570	REG	5/9/2012	Acetophenone	KIRTLAND_053	4520	59	236	50	ug/L	J+
GW0570	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	59	236	50	ug/L	UJ
GW0571	REG	4/25/2012	Caprolactam	KIRTLAND_051	7.15	1.24	4.95	1	ug/L	J-
GW0572	REG	4/25/2012	Caprolactam	KIRTLAND_051	ND	1.24	4.95	1	ug/L	UJ
GW0574	REG	4/25/2012	Caprolactam	KIRTLAND_051	ND	1.24	4.95	1	ug/L	UJ
GW0575	REG	4/25/2012	Caprolactam	KIRTLAND_051	ND	1.25	5	1	ug/L	UJ
GW0576	REG	4/12/2012	Caprolactam	KIRTLAND_049	ND	1.2	4.81	1	ug/L	UJ
GW0577	REG	4/12/2012	Caprolactam	KIRTLAND_049	ND	1.23	4.9	1	ug/L	UJ
GW0580	REG	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.2	4.81	1	ug/L	UJ
GW0582	REG	5/3/2012	Caprolactam	KIRTLAND_052	5.51	1.18	4.72	1	ug/L	J-
GW0583	REG	5/10/2012	Caprolactam	KIRTLAND_053	ND	250	1000	200	ug/L	UJ
GW0584	REG	5/10/2012	Caprolactam	KIRTLAND_053	ND	1.23	4.9	1	ug/L	UJ
GW0585	REG	5/14/2012	Caprolactam	KIRTLAND_053	ND	1.2	4.81	1	ug/L	UJ
GW0586	REG	5/8/2012	Acetophenone	KIRTLAND_053	1920	59	236	50	ug/L	J+
GW0586	REG	5/8/2012	Caprolactam	KIRTLAND_053	ND	59	236	50	ug/L	UJ
GW0587	REG	5/8/2012	Caprolactam	KIRTLAND_053	ND	5.84	23.4	5	ug/L	UJ
GW0588	REG	5/8/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ
GW0589	FD	5/8/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L		Method SW8270C								
GW0599	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ
GW0600	FD	5/9/2012	Caprolactam	KIRTLAND_053	ND	1.17	4.67	1	ug/L	UJ
GW0601	REG	5/1/2012	Caprolactam	KIRTLAND_052	ND	1.23	4.9	1	ug/L	UJ
GW0603	REG	4/19/2012	Caprolactam	KIRTLAND_050	ND	1.25	5	1	ug/L	UJ
GW0609	REG	5/9/2012	Caprolactam	KIRTLAND_053	ND	1.23	4.9	1	ug/L	UJ
GW0610	REG	5/8/2012	Caprolactam	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW0611	FD	5/8/2012	Caprolactam	KIRTLAND_053	ND	1.17	4.67	1	ug/L	UJ
GW0612	REG	5/8/2012	Caprolactam	KIRTLAND_053	ND	1.18	4.72	1	ug/L	UJ
GW0616	REG	5/2/2012	Caprolactam	KIRTLAND_052	ND	1.2	4.81	1	ug/L	UJ
Reason Code LM		Method SW8270C								
GW0538	REG	5/2/2012	Caprolactam	KIRTLAND_052	ND	1.24	4.95	1	ug/L	UJ
GW0581	REG	5/3/2012	Caprolactam	KIRTLAND_052	ND	1.18	4.72	1	ug/L	UJ
Reason Code LTr		Method SW8270C								
GW0527	REG	4/12/2012	Caprolactam	KIRTLAND_049	3.75	1.18	4.72	1	ug/L	J-
GW0547	REG	4/12/2012	Caprolactam	KIRTLAND_049	3.81	1.23	4.9	1	ug/L	J-
GW0573	REG	4/25/2012	Caprolactam	KIRTLAND_051	4.13	1.25	5	1	ug/L	J-
GW0578	FD	4/12/2012	Caprolactam	KIRTLAND_049	3.76	1.2	4.81	1	ug/L	J-
GW0579	REG	4/12/2012	Caprolactam	KIRTLAND_049	3.71	1.18	4.72	1	ug/L	J-
Reason Code M		Method SW8270C								
GW0558	REG	4/24/2012	Caprolactam	KIRTLAND_051	ND	1.2	4.81	1	ug/L	UJ
Reason Code MTr		Method E353.2								
GW0558	REG	4/24/2012	Nitrate/Nitrite as N	KIRTLAND_051	0.706	0.25	1.5	1	mg/L	J+
Field QC Samples										
Reason Code C		Method SW8260B								
GW8051-RB	ER	5/10/2012	Chloromethane	KIRTLAND_053	ND	0.25	1	1	ug/L	UJ
GW8052-AB	AB	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW8052-AB	AB	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW8053-AB	AB	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW8053-AB	AB	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW8054-AB	AB	5/7/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW8055-AB	AB	5/8/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ

Appendix B1 - Table 3
Qualified Data Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Field QC Samples										
Reason Code C		Method SW8260B								
GW8190-TB	TB	4/11/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW8190-TB	TB	4/11/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW8191-TB	TB	4/12/2012	Bromomethane	KIRTLAND_049	ND	0.5	2	1	ug/L	UJ
GW8191-TB	TB	4/12/2012	Chloromethane	KIRTLAND_049	ND	0.25	1	1	ug/L	UJ
GW8198-TB	TB	4/26/2012	Bromomethane	KIRTLAND_051	ND	0.5	2	1	ug/L	UJ
GW8198-TB	TB	4/26/2012	Chloromethane	KIRTLAND_051	ND	0.25	1	1	ug/L	UJ
GW8200-TB	TB	4/30/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW8201-TB	TB	5/2/2012	Hexachlorobutadiene	KIRTLAND_052	ND	0.25	2	1	ug/L	UJ
GW8202-TB	TB	5/3/2012	Bromomethane	KIRTLAND_052	ND	0.5	2	1	ug/L	UJ
GW8202-TB	TB	5/3/2012	Chloromethane	KIRTLAND_052	ND	0.25	1	1	ug/L	UJ
GW8203-TB	TB	5/7/2012	Acetone	KIRTLAND_053	ND	2.5	10	1	ug/L	UJ
GW8205-TB	TB	5/10/2012	Chloromethane	KIRTLAND_053	ND	0.25	1	1	ug/L	UJ
Reason Code CTr		Method SW8260B								
GW8050-RB	ER	5/7/2012	Acetone	KIRTLAND_053	3.45	2.5	10	1	ug/L	J-
Reason Code L		Method SW8270C								
GW8050-RB	ER	5/7/2012	Caprolactam	KIRTLAND_053	ND	1.23	4.9	1	ug/L	UJ
GW8051-RB	ER	5/10/2012	Caprolactam	KIRTLAND_053	ND	1.23	4.9	1	ug/L	UJ

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

AB Ambient Blank
DL Detection Limit
ER Equipment rinse blank
FD Field Duplicate sample
LOQ Limit of Quantitation
mg/L milligrams per liter
ND Not Detected at the LOQ
REG Normal sample sent to the lab
SDG Sample Delivery Group
TB Trip Blank
µg/L micrograms per liter

Appendix B1 - Table 4
Detected Trip Blank Results and Associated Sample Results
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8193-TB	TB	4/18/2012	SW8260B	Toluene	0.3	0.25	1	ug/L	J	Tr
GW0560	REG	4/17/2012	SW8260B	Toluene	ND	0.25	1	ug/L	U	K3
GW0613	REG	4/17/2012	SW8260B	Toluene	ND	0.25	1	ug/L		
GW0606	REG	4/18/2012	SW8260B	Toluene	ND	0.25	1	ug/L	U	K3
GW0607	REG	4/18/2012	SW8260B	Toluene	ND	0.25	1	ug/L		
GW0608	REG	4/18/2012	SW8260B	Toluene	ND	0.25	1	ug/L		
GW8194-TB	TB	4/19/2012	SW8260B	Toluene	ND	0.25	1	ug/L		
GW8196-TB	TB	4/24/2012	SW8260B	1,1-Dichloropropene	6.7	0.25	1	ug/L		
GW0540	REG	4/23/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0619	REG	4/23/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0558	REG	4/24/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0559	REG	4/24/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0566	REG	4/24/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0567	REG	4/24/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW0568	FD	4/24/2012	SW8260B	1,1-Dichloropropene	ND	0.25	1	ug/L		
GW8196-TB	TB	4/24/2012	SW8260B	1,2-Dichloroethane	1.2	0.25	1	ug/L		
GW0540	REG	4/23/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0619	REG	4/23/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0558	REG	4/24/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0559	REG	4/24/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0566	REG	4/24/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0567	REG	4/24/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW0568	FD	4/24/2012	SW8260B	1,2-Dichloroethane	ND	0.25	1	ug/L		
GW8196-TB	TB	4/24/2012	SW8260B	1,3-Dichloropropane	0.84	0.25	1	ug/L	J	Tr
GW0540	REG	4/23/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0619	REG	4/23/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0558	REG	4/24/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0559	REG	4/24/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0566	REG	4/24/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0567	REG	4/24/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		
GW0568	FD	4/24/2012	SW8260B	1,3-Dichloropropane	ND	0.25	1	ug/L		

Appendix B1- Table 4
Detected Trip Blank Results and Associated Sample Results
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8196-TB	TB	4/24/2012	SW8260B	Dibromochloromethane	0.76	0.25	1	ug/L	J	Tr
GW0540	REG	4/23/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0619	REG	4/23/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0558	REG	4/24/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0559	REG	4/24/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0566	REG	4/24/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0567	REG	4/24/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		
GW0568	FD	4/24/2012	SW8260B	Dibromochloromethane	ND	0.25	1	ug/L		

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

DL Detection Limit
 FD Field Duplicate sample
 LOQ Limit of Quantitation
 ND Not Detected at the LOQ
 REG Normal sample sent to the lab
 TB Trip Blank
 µg/L micrograms per liter

Appendix B1 - Table 5
Detected Equipment Blank Results and Associated Sample Results
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8050-RB	ER	5/7/2012	SW8260B	Acetone	3.45	2.5	10	ug/L	J-	CTr
GW0518	REG	5/7/2012	SW8260B	Acetone	ND	2.5	10	ug/L	UJ	C
GW8050-RB	ER	5/7/2012	SW8270C	Bis(2-ethylhexyl)phthalate	5.01	1.23	4.9	ug/L		
GW0518	REG	5/7/2012	SW8270C	Bis(2-ethylhexyl)phthalate	ND	1.23	4.9	ug/L		
GW8051-RB	ER	5/10/2012	SW8015B	Diesel Range Organics (C10-C28)	0.214	0.098	0.392	mg/L	J	Tr
GW0509	REG	5/10/2012	SW8015B	Diesel Range Organics (C10-C28)	0.72	0.0943	0.377	mg/L	U	K1
GW0583	REG	5/10/2012	SW8015B	Diesel Range Organics (C10-C28)	18.1	2.36	9.43	mg/L		
GW8051-RB	ER	5/10/2012	SW8260B	Acetone	5.15	2.5	10	ug/L	J	Tr
GW0509	REG	5/10/2012	SW8260B	Acetone	ND	5	20	ug/L		
GW0583	REG	5/10/2012	SW8260B	Acetone	28000	250	1000	ug/L		
GW8051-RB	ER	5/10/2012	SW8260B	Toluene	0.26	0.25	1	ug/L	J	Tr
GW0509	REG	5/10/2012	SW8260B	Toluene	166	0.5	2	ug/L		
GW0583	REG	5/10/2012	SW8260B	Toluene	6560	12.5	50	ug/L		
GW8051-RB	ER	5/10/2012	SW8270C	Acetophenone	2.27	1.23	4.9	ug/L	J	Tr
GW0509	REG	5/10/2012	SW8270C	Acetophenone	5.55	1.18	4.72	ug/L	U	K1
GW0583	REG	5/10/2012	SW8270C	Acetophenone	25300	625	2500	ug/L		
GW8051-RB	ER	5/10/2012	SW8270C	Bis(2-ethylhexyl)phthalate	5.04	1.23	4.9	ug/L		
GW0509	REG	5/10/2012	SW8270C	Bis(2-ethylhexyl)phthalate	ND	1.18	4.72	ug/L		
GW0583	REG	5/10/2012	SW8270C	Bis(2-ethylhexyl)phthalate	ND	250	1000	ug/L		

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

DL Detection Limit
ER Equipment rinse blank
FD Field Duplicate
LOQ Limit of Quantitation
mg/L milligrams per liter
ND Not Detected at the LOQ
REG Normal sample sent to the lab
ug/L micrograms per liter

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Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106008									
E300.0	Chloride	5/9/2012	12	0.5	12	0.5	mg/L	0	Yes
	Sulfate as SO4		7.06	2.5	7.3	2.5	mg/L	3.3	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		187	1	181	1	mg/L	3.3	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		2.37 J	3.7	2.37 J	3.7	mg/L	--	--
SW6010B	Calcium		54300	5000	54900	5000	ug/L	1.1	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7840	5000	7930	5000	ug/L	1.1	Yes
	Potassium		2530 J	5000	2550 J	5000	ug/L	--	--
	Sodium		27200	5000	27400	5000	ug/L	0.7	Yes
SW6010B-DISS	Iron		159	100	169	100	ug/L	6.1	Yes
	Manganese		1350	15	1450	15	ug/L	7.1	Yes
SW8011	1,2-Dibromoethane		3.68	0.283	4.06	0.281	ug/L	9.8	Yes
SW8015B	Diesel Range Organics (C10-C28)		7.31 J-	1.89	8.71 J-	1.92	mg/L	17.5	Yes
	Gasoline Range Organics (C6-C10)		4.96	0.15	4.22	0.3	mg/L	16.1	Yes
SW8260B	1,1,1,2-Tetrachloroethane		ND	10	ND	10	ug/L	--	--
	1,1,1-Trichloroethane		ND	10	ND	10	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	10	ND	10	ug/L	--	--
	1,1,2-Trichloroethane		ND	10	ND	10	ug/L	--	--
	1,1-Dichloroethane		ND	10	ND	10	ug/L	--	--
	1,1-Dichloroethene		ND	10	ND	10	ug/L	--	--
	1,1-Dichloropropene		ND	10	ND	10	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,2,3-Trichloropropane		ND	20	ND	20	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,2,4-Trimethylbenzene		40.2	10	38.3	10	ug/L	4.8	Yes
	1,2-Dibromo-3-chloropropane		ND	20	ND	20	ug/L	--	--
	1,2-Dibromoethane (EDB)		3.6 J	10	3.3 J	10	ug/L	--	--
	1,2-Dichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2-Dichloroethane		ND	10	ND	10	ug/L	--	--
	1,2-Dichloropropane		ND	10	ND	10	ug/L	--	--
	1,3,5-Trimethylbenzene		13.7	10	12.9	10	ug/L	6	Yes
	1,3-Dichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,3-Dichloropropane		ND	10	ND	10	ug/L	--	--
	1,4-Dichlorobenzene		ND	10	ND	10	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106008									
SW8260B	2,2-Dichloropropane	5/9/2012	ND	10	ND	10	ug/L	--	--
	2-Butanone		29.8 J	100	27.4 J	100	ug/L	--	--
	2-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	2-Hexanone		37.6 J	50	36.6 J	50	ug/L	--	--
	4-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	4-Methyl-2-pentanone		67.9	50	63.2	50	ug/L	7.2	Yes
	Acetone		195	100	174	100	ug/L	11.4	Yes
	Benzene		1370	10	1270	10	ug/L	7.6	Yes
	Bromobenzene		ND	10	ND	10	ug/L	--	--
	Bromochloromethane		ND	10	ND	10	ug/L	--	--
	Bromodichloromethane		ND	10	ND	10	ug/L	--	--
	Bromoform		ND	10	ND	10	ug/L	--	--
	Bromomethane		ND	20	ND	20	ug/L	--	--
	Carbon disulfide		ND	10	ND	10	ug/L	--	--
	Carbon tetrachloride		ND	10	ND	10	ug/L	--	--
	Chlorobenzene		ND	10	ND	10	ug/L	--	--
	Chloroethane		ND	20	ND	20	ug/L	--	--
	Chloroform		ND	10	ND	10	ug/L	--	--
	Chloromethane		ND	10	ND	10	ug/L	--	--
	cis-1,2-Dichloroethene		ND	10	ND	10	ug/L	--	--
	cis-1,3-Dichloropropene		ND	10	ND	10	ug/L	--	--
	Dibromochloromethane		ND	10	ND	10	ug/L	--	--
	Dibromomethane		ND	10	ND	10	ug/L	--	--
	Dichlorodifluoromethane		ND	20	ND	20	ug/L	--	--
	Ethylbenzene		177	10	165	10	ug/L	7	Yes
	Hexachlorobutadiene		ND	20	ND	20	ug/L	--	--
	Isopropylbenzene		22.5	10	20.9	10	ug/L	7.4	Yes
	Methyl t-Butyl Ether		ND	10	ND	10	ug/L	--	--
	Methylene chloride		ND	20	ND	20	ug/L	--	--
	Naphthalene		21.4	20	20.8	20	ug/L	2.8	Yes
	n-Butylbenzene		ND	10	ND	10	ug/L	--	--
	n-Propylbenzene		13.4	10	12.5	10	ug/L	6.9	Yes
	p-Isopropyltoluene		11.4	10	10.7	10	ug/L	6.3	Yes
	sec-Butylbenzene		3 J	10	2.8 J	10	ug/L	--	--
	Styrene		ND	10	ND	10	ug/L	--	--
	tert-Butylbenzene		ND	10	ND	10	ug/L	--	--
	Tetrachloroethene		ND	10	ND	10	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106008									
SW8260B	Toluene	5/9/2012	432	10	395	10	ug/L	8.9	Yes
	trans-1,2-Dichloroethene		ND	10	ND	10	ug/L	--	--
	trans-1,3-Dichloropropene		ND	10	ND	10	ug/L	--	--
	Trichloroethene		ND	10	ND	10	ug/L	--	--
	Trichlorofluoromethane		ND	20	ND	20	ug/L	--	--
	Vinyl chloride		ND	10	ND	10	ug/L	--	--
	Xylenes (total)		238	30	220	30	ug/L	7.9	Yes
SW8270C	1,1-Biphenyl		ND	47.2	ND	48.1	ug/L	--	--
	1,2-Diphenylhydrazine		ND	47.2	ND	48.1	ug/L	--	--
	1-Methylnaphthalene		ND	47.2	ND	48.1	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	47.2	ND	48.1	ug/L	--	--
	2,4,5-Trichlorophenol		ND	47.2	ND	48.1	ug/L	--	--
	2,4,6-Trichlorophenol		ND	47.2	ND	48.1	ug/L	--	--
	2,4-Dichlorophenol		ND	47.2	ND	48.1	ug/L	--	--
	2,4-Dimethylphenol		ND	189	ND	192	ug/L	--	--
	2,4-Dinitrophenol		ND	472	ND	481	ug/L	--	--
	2,4-Dinitrotoluene		ND	47.2	ND	48.1	ug/L	--	--
	2,6-Dinitrotoluene		ND	47.2	ND	48.1	ug/L	--	--
	2-Chloronaphthalene		ND	47.2	ND	48.1	ug/L	--	--
	2-Chlorophenol		ND	47.2	ND	48.1	ug/L	--	--
	2-Methylnaphthalene		ND	47.2	ND	48.1	ug/L	--	--
	2-Methylphenol		ND	47.2	ND	48.1	ug/L	--	--
	2-Nitroaniline		ND	189	ND	192	ug/L	--	--
	2-Nitrophenol		ND	47.2	ND	48.1	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	47.2	ND	48.1	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	47.2	ND	48.1	ug/L	--	--
	3-Nitroaniline		ND	189	ND	192	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	189	ND	192	ug/L	--	--
	4-Bromophenyl-phenylether		ND	47.2	ND	48.1	ug/L	--	--
	4-Chloro-3-methylphenol		ND	47.2	ND	48.1	ug/L	--	--
	4-Chloroaniline		ND	47.2	ND	48.1	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	47.2	ND	48.1	ug/L	--	--
	4-Nitroaniline		ND	189	ND	192	ug/L	--	--
	4-Nitrophenol		ND	189	ND	192	ug/L	--	--
	Acenaphthene		ND	47.2	ND	48.1	ug/L	--	--
	Acenaphthylene		ND	47.2	ND	48.1	ug/L	--	--
	Acetophenone		390 J+	47.2	428 J+	48.1	ug/L	9.3	Yes

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106008									
SW8270C	Anthracene	5/9/2012	ND	47.2	ND	48.1	ug/L	--	--
	Atrazine		ND	47.2	ND	48.1	ug/L	--	--
	Benzaldehyde		ND	47.2	ND	48.1	ug/L	--	--
	Benzidine		ND	472	ND	481	ug/L	--	--
	Benzo(a)anthracene		ND	47.2	ND	48.1	ug/L	--	--
	Benzo(a)pyrene		ND	47.2	ND	48.1	ug/L	--	--
	Benzo(b)fluoranthene		ND	47.2	ND	48.1	ug/L	--	--
	Benzo(g,h,i)perylene		ND	47.2	ND	48.1	ug/L	--	--
	Benzo(k)fluoranthene		ND	47.2	ND	48.1	ug/L	--	--
	Benzoic acid		ND	472	ND	481	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	47.2	ND	48.1	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	47.2	ND	48.1	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	47.2	ND	48.1	ug/L	--	--
	Butylbenzylphthalate		ND	47.2	ND	48.1	ug/L	--	--
	Caprolactam		ND	47.2	ND	48.1	ug/L	--	--
	Carbazole		ND	47.2	ND	48.1	ug/L	--	--
	Chrysene		ND	47.2	ND	48.1	ug/L	--	--
	Dibenz(a,h)anthracene		ND	47.2	ND	48.1	ug/L	--	--
	Dibenzofuran		ND	47.2	ND	48.1	ug/L	--	--
	Diethylphthalate		ND	47.2	ND	48.1	ug/L	--	--
	Dimethyl phthalate		ND	47.2	ND	48.1	ug/L	--	--
	Di-n-butylphthalate		ND	47.2	ND	48.1	ug/L	--	--
	Di-n-octylphthalate		ND	47.2	ND	48.1	ug/L	--	--
	Fluoranthene		ND	47.2	ND	48.1	ug/L	--	--
	Fluorene		ND	47.2	ND	48.1	ug/L	--	--
	Hexachlorobenzene		ND	47.2	ND	48.1	ug/L	--	--
	Hexachlorobutadiene		ND	47.2	ND	48.1	ug/L	--	--
	Hexachlorocyclopentadiene		ND	47.2	ND	48.1	ug/L	--	--
	Hexachloroethane		ND	47.2	ND	48.1	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	47.2	ND	48.1	ug/L	--	--
	Isophorone		ND	47.2	ND	48.1	ug/L	--	--
	Naphthalene		19.1 J	47.2	20.2 J	48.1	ug/L	--	--
	Nitrobenzene		ND	47.2	ND	48.1	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	47.2	ND	48.1	ug/L	--	--
	N-Nitrosodiphenylamine		ND	47.2	ND	48.1	ug/L	--	--
	Pentachlorophenol		ND	189	ND	192	ug/L	--	--
	Phenanthrene		ND	47.2	ND	48.1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106008									
SW8270C	Phenol	5/9/2012	ND	47.2	ND	48.1	ug/L	--	--
	Pyrene		ND	47.2	ND	48.1	ug/L	--	--
KAFB-106019									
E300.0	Chloride	4/4/2012	9.76	0.5	9.95	0.5	mg/L	1.9	Yes
	Sulfate as SO4		30	2	30.5	2	mg/L	1.7	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		139	1	127	1	mg/L	9	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	0.127 J	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.64	ND	3.45	mg/L	--	--
SW6010B	Calcium		42600	5000	43300	5000	ug/L	1.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5810	5000	5930	5000	ug/L	2	Yes
	Potassium		2250 J	5000	2310 J	5000	ug/L	--	--
	Sodium		24600	5000	25300	5000	ug/L	2.8	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		115	15	115	15	ug/L	0	Yes
SW8011	1,2-Dibromoethane		0.223	0.0284	0.262	0.0285	ug/L	16.1	Yes
SW8015B	Diesel Range Organics (C10-C28)		ND	0.0943	ND	0.0943	mg/L	--	--
	Gasoline Range Organics (C6-C10)		0.118 J	0.15	0.12 J	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		6.58	1	6.37	1	ug/L	3.2	Yes
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106019									
SW8260B	1,3-Dichloropropane	4/4/2012	ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		0.3 J	1	0.29 J	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		6.33	1	6.15	1	ug/L	2.9	Yes
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		0.58 J	1	0.57 J	1	ug/L	--	--
	p-Isopropyltoluene		0.52 J	1	0.5 J	1	ug/L	--	--
	sec-Butylbenzene		0.93 J	1	0.89 J	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106019									
SW8260B	tert-Butylbenzene	4/4/2012	ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.9	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.9	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.9	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	19.6	ND	19.6	ug/L	--	--
	2,4-Dinitrophenol		ND	49	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.9	ND	4.9	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.9	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2-Methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	4.9	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.9	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.6	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.9	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	4.9	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.9	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	19.6	ND	19.6	ug/L	--	--
	Acenaphthene		ND	4.9	ND	4.9	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106019									
SW8270C	Acenaphthylene	4/4/2012	ND	4.9	ND	4.9	ug/L	--	--
	Acetophenone		ND	4.9	ND	4.9	ug/L	--	--
	Anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Atrazine		ND	4.9	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	4.9	ND	4.9	ug/L	--	--
	Benzidine		ND	49	ND	49	ug/L	--	--
	Benzo(a)anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Benzoic acid		ND	49	ND	49	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.9	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.9	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.9	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Caprolactam		ND	4.9	ND	4.9	ug/L	--	--
	Carbazole		ND	4.9	ND	4.9	ug/L	--	--
	Chrysene		ND	4.9	ND	4.9	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	4.9	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	4.9	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Fluorene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachloroethane		ND	4.9	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.9	ND	4.9	ug/L	--	--
	Isophorone		ND	4.9	ND	4.9	ug/L	--	--
	Naphthalene		ND	4.9	ND	4.9	ug/L	--	--
	Nitrobenzene		ND	4.9	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.9	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.9	ND	4.9	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106019									
SW8270C	Pentachlorophenol	4/4/2012	ND	19.6	ND	19.6	ug/L	--	--
	Phenanthrene		ND	4.9	ND	4.9	ug/L	--	--
	Phenol		ND	4.9	ND	4.9	ug/L	--	--
	Pyrene		ND	4.9	ND	4.9	ug/L	--	--
KAFB-106033									
E300.0	Chloride	4/18/2012	75	0.5	75.1	0.5	mg/L	0.1	Yes
	Sulfate as SO4		118	2	118	2	mg/L	0	Yes
E353.2	Nitrate/Nitrite as N		2.54	1.5	2.58	1.5	mg/L	1.6	Yes
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		93.4	1	88.5	1	mg/L	5.4	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		0.741 J	3.7	0.741 J	3.7	mg/L	--	--
SW6010B	Calcium		90700	5000	84400	5000	ug/L	7.2	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		13100	5000	12700	5000	ug/L	3.1	Yes
	Potassium		3310 J	5000	3180 J	5000	ug/L	--	--
	Sodium		31500	5000	31200	5000	ug/L	1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0287	ND	0.0287	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.0962	ND	0.0943	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106033									
SW8260B	1,3,5-Trimethylbenzene	4/18/2012	ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106033									
SW8260B	sec-Butylbenzene	4/18/2012	ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		0.46 J	1	0.48 J	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.72	ND	4.81	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.81	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.81	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	19.2	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	48.1	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.81	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.81	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.81	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.81	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	19.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.81	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.81	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.81	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106033									
SW8270C	4-Nitrophenol	4/18/2012	ND	18.9	ND	19.2	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.81	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.81	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.81	ug/L	--	--
	Anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Atrazine		ND	4.72	ND	4.81	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.81	ug/L	--	--
	Benzidine		ND	47.2	ND	48.1	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Benzoic acid		ND	47.2	ND	48.1	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.81	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.81	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.81	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.81	ug/L	--	--
	Carbazole		ND	4.72	ND	4.81	ug/L	--	--
	Chrysene		ND	4.72	ND	4.81	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.81	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.81	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Fluorene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.81	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.72	ND	4.81	ug/L	--	--
	Isophorone		ND	4.72	ND	4.81	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.81	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.81	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106033									
SW8270C	N-Nitroso-di-n-propylamine	4/18/2012	ND	4.72	ND	4.81	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.81	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	19.2	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.81	ug/L	--	--
	Phenol		ND	4.72	ND	4.81	ug/L	--	--
	Pyrene		ND	4.72	ND	4.81	ug/L	--	--
KAFB-106042									
E300.0	Chloride	4/10/2012	32.1	0.5	32.5	0.5	mg/L	1.2	Yes
	Sulfate as SO4		49.7	2	50.5	2	mg/L	1.6	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		134	1	131	1	mg/L	2.3	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	ND	3.39	mg/L	--	--
SW6010B	Calcium		61600	5000	61300	5000	ug/L	0.5	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7830	5000	7820	5000	ug/L	0.1	Yes
	Potassium		3090 J	5000	3080 J	5000	ug/L	--	--
	Sodium		27300	5000	27600	5000	ug/L	1.1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.531	0.0286	0.571	0.0286	ug/L	7.3	Yes
SW8015B	Diesel Range Organics (C10-C28)		0.167	0.1	0.198	0.1	mg/L	17	Yes
	Gasoline Range Organics (C6-C10)		0.123 J	0.15	0.105 J	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		0.53 J	1	0.54 J	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106042									
SW8260B	1,2-Dichloroethane	4/10/2012	ND	1	0.6 J	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		3.74 J	10	4.13 J	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		1.03	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106042									
SW8260B	n-Propylbenzene	4/10/2012	ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	5.26	ND	5	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5.26	ND	5	ug/L	--	--
	1-Methylnaphthalene		ND	5.26	ND	5	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5.26	ND	5	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5.26	ND	5	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5.26	ND	5	ug/L	--	--
	2,4-Dichlorophenol		ND	5.26	ND	5	ug/L	--	--
	2,4-Dimethylphenol		ND	21.1	ND	20	ug/L	--	--
	2,4-Dinitrophenol		ND	52.6	ND	50	ug/L	--	--
	2,4-Dinitrotoluene		ND	5.26	ND	5	ug/L	--	--
	2,6-Dinitrotoluene		ND	5.26	ND	5	ug/L	--	--
	2-Chloronaphthalene		ND	5.26	ND	5	ug/L	--	--
	2-Chlorophenol		ND	5.26	ND	5	ug/L	--	--
	2-Methylnaphthalene		ND	5.26	ND	5	ug/L	--	--
	2-Methylphenol		ND	5.26	ND	5	ug/L	--	--
	2-Nitroaniline		ND	21.1	ND	20	ug/L	--	--
	2-Nitrophenol		ND	5.26	ND	5	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5.26	ND	5	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5.26	ND	5	ug/L	--	--
	3-Nitroaniline		ND	21.1	ND	20	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	21.1	ND	20	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5.26	ND	5	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5.26	ND	5	ug/L	--	--
	4-Chloroaniline		ND	5.26	ND	5	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106042									
SW8270C	4-Chlorophenyl phenyl ether	4/10/2012	ND	5.26	ND	5	ug/L	--	--
	4-Nitroaniline		ND	21.1	ND	20	ug/L	--	--
	4-Nitrophenol		ND	21.1	ND	20	ug/L	--	--
	Acenaphthene		ND	5.26	ND	5	ug/L	--	--
	Acenaphthylene		ND	5.26	ND	5	ug/L	--	--
	Acetophenone		ND	5.26	ND	5	ug/L	--	--
	Anthracene		ND	5.26	ND	5	ug/L	--	--
	Atrazine		ND	5.26	ND	5	ug/L	--	--
	Benzaldehyde		ND	5.26	ND	5	ug/L	--	--
	Benzidine		ND	52.6	ND	50	ug/L	--	--
	Benzo(a)anthracene		ND	5.26	ND	5	ug/L	--	--
	Benzo(a)pyrene		ND	5.26	ND	5	ug/L	--	--
	Benzo(b)fluoranthene		ND	5.26	ND	5	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5.26	ND	5	ug/L	--	--
	Benzo(k)fluoranthene		ND	5.26	ND	5	ug/L	--	--
	Benzoic acid		ND	52.6	ND	50	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5.26	ND	5	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5.26	ND	5	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5.26	ND	5	ug/L	--	--
	Butylbenzylphthalate		ND	5.26	ND	5	ug/L	--	--
	Caprolactam		ND	5.26	ND	5	ug/L	--	--
	Carbazole		ND	5.26	ND	5	ug/L	--	--
	Chrysene		ND	5.26	ND	5	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5.26	ND	5	ug/L	--	--
	Dibenzofuran		ND	5.26	ND	5	ug/L	--	--
	Diethylphthalate		ND	5.26	ND	5	ug/L	--	--
	Dimethyl phthalate		ND	5.26	ND	5	ug/L	--	--
	Di-n-butylphthalate		ND	5.26	ND	5	ug/L	--	--
	Di-n-octylphthalate		ND	5.26	ND	5	ug/L	--	--
	Fluoranthene		ND	5.26	ND	5	ug/L	--	--
	Fluorene		ND	5.26	ND	5	ug/L	--	--
	Hexachlorobenzene		ND	5.26	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	5.26	ND	5	ug/L	--	--
	Hexachlorocyclopentadiene		ND	5.26	ND	5	ug/L	--	--
	Hexachloroethane		ND	5.26	ND	5	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5.26	ND	5	ug/L	--	--
	Isophorone		ND	5.26	ND	5	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106042									
SW8270C	Naphthalene	4/10/2012	ND	5.26	ND	5	ug/L	--	--
	Nitrobenzene		ND	5.26	ND	5	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5.26	ND	5	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5.26	ND	5	ug/L	--	--
	Pentachlorophenol		ND	21.1	ND	20	ug/L	--	--
	Phenanthrene		ND	5.26	ND	5	ug/L	--	--
	Phenol		ND	5.26	ND	5	ug/L	--	--
	Pyrene		ND	5.26	ND	5	ug/L	--	--
KAFB-106051									
E300.0	Chloride	5/3/2012	28.6	0.5	28.9	0.5	mg/L	1	Yes
	Sulfate as SO4		55.7	2	56.3	2	mg/L	1.1	Yes
E353.2	Nitrate/Nitrite as N		0.762 J	1.5	0.758 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		93.4	1	97	1	mg/L	3.8	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	ND	3.45	mg/L	--	--
SW6010B	Calcium		48400	5000	49100	5000	ug/L	1.4	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6720	5000	6860	5000	ug/L	2.1	Yes
	Potassium		2400 J	5000	2440 J	5000	ug/L	--	--
	Sodium		23700	5000	24000	5000	ug/L	1.3	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0283	ND	0.0284	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.374	ND	0.377	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106051									
SW8260B	1,2-Dibromoethane (EDB)	5/3/2012	ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106051									
SW8260B	Naphthalene	5/3/2012	ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.72	ND	4.67	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.67	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.67	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.67	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	18.7	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	46.7	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.67	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.67	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.67	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.67	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.67	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.67	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.67	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.67	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	18.7	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.67	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106051									
SW8270C	4-Chloro-3-methylphenol	5/3/2012	ND	4.72	ND	4.67	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.67	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.67	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	4-Nitrophenol		ND	18.9	ND	18.7	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.67	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.67	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.67	ug/L	--	--
	Anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Atrazine		ND	4.72	ND	4.67	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.67	ug/L	--	--
	Benzidine		ND	47.2	ND	46.7	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Benzoic acid		ND	47.2	ND	46.7	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.67	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.67	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.67	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.67	ug/L	--	--
	Carbazole		ND	4.72	ND	4.67	ug/L	--	--
	Chrysene		ND	4.72	ND	4.67	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.67	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.67	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Fluorene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.67	ug/L	--	--

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KAFB-106051									
SW8270C	Indeno(1,2,3-cd)pyrene	5/3/2012	ND	4.72	ND	4.67	ug/L	--	--
	Isophorone		ND	4.72	ND	4.67	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.67	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.67	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.72	ND	4.67	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.67	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	18.7	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.67	ug/L	--	--
	Phenol		ND	4.72	ND	4.67	ug/L	--	--
	Pyrene		ND	4.72	ND	4.67	ug/L	--	--
KAFB-106063									
E300.0	Chloride	4/24/2012	12.4	0.5	12.4	0.5	mg/L	0	Yes
	Sulfate as SO4		35.2	2	35.5	2	mg/L	0.8	Yes
E353.2	Nitrate/Nitrite as N		0.632 J	1.5	0.615 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		128	1	132	1	mg/L	3.1	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	ND	3.45	mg/L	--	--
SW6010B	Calcium		47300	5000	44900	5000	ug/L	5.2	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6640	5000	6350	5000	ug/L	4.5	Yes
	Potassium		2380 J	5000	2260 J	5000	ug/L	--	--
	Sodium		26200	5000	24800	5000	ug/L	5.5	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		4.68 J	15	4.79 J	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0285	ND	0.0286	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.0952	ND	0.1	mg/L	--	--
	Gasoline Range Organics (C6-C10)		0.0532 J	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		0.46 J	1	0.45 J	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--

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KAFB-106063									
SW8260B	1,2,4-Trimethylbenzene	4/24/2012	ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		1.28 J+	2	1.34 J	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		0.36 J	1	0.37 J	1	ug/L	--	--

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KAFB-106063									
SW8260B	Methyl t-Butyl Ether	4/24/2012	ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		0.46 J	1	0.49 J	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		0.55 J	1	0.53 J	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	5	ND	4.72	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.72	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	4.72	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.72	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	18.9	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	47.2	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.72	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	4.72	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.72	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.72	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	4.72	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.72	ug/L	--	--
	2-Nitroaniline		ND	20	ND	18.9	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.72	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.72	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.72	ug/L	--	--
	3-Nitroaniline		ND	20	ND	18.9	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106063									
SW8270C	4,6-Dinitro-2-methylphenol	4/24/2012	ND	20	ND	18.9	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.72	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.72	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.72	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.72	ug/L	--	--
	4-Nitroaniline		ND	20	ND	18.9	ug/L	--	--
	4-Nitrophenol		ND	20	ND	18.9	ug/L	--	--
	Acenaphthene		ND	5	ND	4.72	ug/L	--	--
	Acenaphthylene		ND	5	ND	4.72	ug/L	--	--
	Acetophenone		ND	5	ND	4.72	ug/L	--	--
	Anthracene		ND	5	ND	4.72	ug/L	--	--
	Atrazine		ND	5	ND	4.72	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.72	ug/L	--	--
	Benzidine		ND	50	ND	47.2	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.72	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.72	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.72	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Benzoic acid		ND	50	ND	47.2	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.72	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.72	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.72	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.72	ug/L	--	--
	Caprolactam		ND	5	ND	4.72	ug/L	--	--
	Carbazole		ND	5	ND	4.72	ug/L	--	--
	Chrysene		ND	5	ND	4.72	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	4.72	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.72	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.72	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.72	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.72	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.72	ug/L	--	--
	Fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Fluorene		ND	5	ND	4.72	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.72	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.72	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106063									
SW8270C	Hexachlorocyclopentadiene	4/24/2012	ND	5	ND	4.72	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.72	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.72	ug/L	--	--
	Isophorone		ND	5	ND	4.72	ug/L	--	--
	Naphthalene		ND	5	ND	4.72	ug/L	--	--
	Nitrobenzene		ND	5	ND	4.72	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.72	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.72	ug/L	--	--
	Pentachlorophenol		ND	20	ND	18.9	ug/L	--	--
	Phenanthrene		ND	5	ND	4.72	ug/L	--	--
	Phenol		ND	5	ND	4.72	ug/L	--	--
	Pyrene		ND	5	ND	4.72	ug/L	--	--
KAFB-106071									
E300.0	Chloride	4/12/2012	9.9	0.5	9.99	0.5	mg/L	0.9	Yes
	Sulfate as SO4		32.3	2	32.5	2	mg/L	0.6	Yes
E353.2	Nitrate/Nitrite as N		0.329 J	1.5	0.66 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		108	1	105	1	mg/L	2.8	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	ND	3.7	mg/L	--	--
SW6010B	Calcium		39500	5000	39200	5000	ug/L	0.8	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5120	5000	4990 J	5000	ug/L	--	--
	Potassium		2230 J	5000	2190 J	5000	ug/L	--	--
	Sodium		23100	5000	22200	5000	ug/L	4	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0279	ND	0.0284	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.0943	ND	0.0943	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106071									
SW8260B	1,2,3-Trichloropropane	4/12/2012	ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106071									
SW8260B	Hexachlorobutadiene	4/12/2012	ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.9	ND	4.81	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.9	ND	4.81	ug/L	--	--
	1-Methylnaphthalene		ND	4.9	ND	4.81	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.9	ND	4.81	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4-Dichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4-Dimethylphenol		ND	19.6	ND	19.2	ug/L	--	--
	2,4-Dinitrophenol		ND	49	ND	48.1	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.9	ND	4.81	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.9	ND	4.81	ug/L	--	--
	2-Chloronaphthalene		ND	4.9	ND	4.81	ug/L	--	--
	2-Chlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2-Methylnaphthalene		ND	4.9	ND	4.81	ug/L	--	--
	2-Methylphenol		ND	4.9	ND	4.81	ug/L	--	--
	2-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	2-Nitrophenol		ND	4.9	ND	4.81	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.9	ND	4.81	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106071									
SW8270C	3-Methylphenol and 4-methylphenol	4/12/2012	ND	4.9	ND	4.81	ug/L	--	--
	3-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.6	ND	19.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.9	ND	4.81	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.9	ND	4.81	ug/L	--	--
	4-Chloroaniline		ND	4.9	ND	4.81	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.9	ND	4.81	ug/L	--	--
	4-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	4-Nitrophenol		ND	19.6	ND	19.2	ug/L	--	--
	Acenaphthene		ND	4.9	ND	4.81	ug/L	--	--
	Acenaphthylene		ND	4.9	ND	4.81	ug/L	--	--
	Acetophenone		ND	4.9	ND	4.81	ug/L	--	--
	Anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Atrazine		ND	4.9	ND	4.81	ug/L	--	--
	Benzaldehyde		ND	4.9	ND	4.81	ug/L	--	--
	Benzidine		ND	49	ND	48.1	ug/L	--	--
	Benzo(a)anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(a)pyrene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Benzoic acid		ND	49	ND	48.1	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.9	ND	4.81	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.9	ND	4.81	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.9	ND	4.81	ug/L	--	--
	Butylbenzylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Caprolactam		ND	4.9	3.76 J-	4.81	ug/L	--	--
	Carbazole		ND	4.9	ND	4.81	ug/L	--	--
	Chrysene		ND	4.9	ND	4.81	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Dibenzofuran		ND	4.9	ND	4.81	ug/L	--	--
	Diethylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Dimethyl phthalate		ND	4.9	ND	4.81	ug/L	--	--
	Di-n-butylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Di-n-octylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Fluorene		ND	4.9	ND	4.81	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106071									
SW8270C	Hexachlorobenzene	4/12/2012	ND	4.9	ND	4.81	ug/L	--	--
	Hexachlorobutadiene		ND	4.9	ND	4.81	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.9	ND	4.81	ug/L	--	--
	Hexachloroethane		ND	4.9	ND	4.81	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.9	ND	4.81	ug/L	--	--
	Isophorone		ND	4.9	ND	4.81	ug/L	--	--
	Naphthalene		ND	4.9	ND	4.81	ug/L	--	--
	Nitrobenzene		ND	4.9	ND	4.81	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.9	ND	4.81	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.9	ND	4.81	ug/L	--	--
	Pentachlorophenol		ND	19.6	ND	19.2	ug/L	--	--
	Phenanthrene		ND	4.9	ND	4.81	ug/L	--	--
	Phenol		ND	4.9	ND	4.81	ug/L	--	--
	Pyrene		ND	4.9	ND	4.81	ug/L	--	--
KAFB-106081									
E300.0	Chloride	5/8/2012	7.45	1	7.46	1	mg/L	0.1	Yes
	Sulfate as SO4		29	2.5	29.1	2.5	mg/L	0.3	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		100	1	93.4	1	mg/L	6.8	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.45	mg/L	--	--
SW6010B	Calcium		33900	5000	34800	5000	ug/L	2.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4440 J	5000	4550 J	5000	ug/L	--	--
	Potassium		2060 J	5000	2110 J	5000	ug/L	--	--
	Sodium		21900	5000	22400	5000	ug/L	2.3	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0286	ND	0.0284	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		0.249 J	0.392	ND	0.37	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106081									
SW8260B	1,1-Dichloropropene	5/8/2012	ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106081									
SW8260B	Dichlorodifluoromethane	5/8/2012	ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.72	ND	4.72	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.72	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.72	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	18.9	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	47.2	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.72	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.72	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.72	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106081									
SW8270C	2-Nitrophenol	5/8/2012	ND	4.72	ND	4.72	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.72	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.72	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	18.9	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.72	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.72	ND	4.72	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.72	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.72	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--
	4-Nitrophenol		ND	18.9	ND	18.9	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.72	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.72	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.72	ug/L	--	--
	Anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Atrazine		ND	4.72	ND	4.72	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.72	ug/L	--	--
	Benzidine		ND	47.2	ND	47.2	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.72	ug/L	--	--
	Benzoic acid		ND	47.2	ND	47.2	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.72	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.72	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.72	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.72	ug/L	--	--
	Carbazole		ND	4.72	ND	4.72	ug/L	--	--
	Chrysene		ND	4.72	ND	4.72	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.72	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.72	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.72	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106081									
SW8270C	Fluoranthene	5/8/2012	ND	4.72	ND	4.72	ug/L	--	--
	Fluorene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.72	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.72	ND	4.72	ug/L	--	--
	Isophorone		ND	4.72	ND	4.72	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.72	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.72	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.72	ND	4.72	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.72	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	18.9	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.72	ug/L	--	--
	Phenol		ND	4.72	ND	4.72	ug/L	--	--
	Pyrene		ND	4.72	ND	4.72	ug/L	--	--
KAFB-106091									
E300.0	Chloride	5/9/2012	22.4	0.5	22.3	0.5	mg/L	0.4	Yes
	Sulfate as SO4		43.2	2.5	43.3	2.5	mg/L	0.2	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		136	1	130	1	mg/L	4.5	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.45	mg/L	--	--
SW6010B	Calcium		54100	5000	54000	5000	ug/L	0.2	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6630	5000	6640	5000	ug/L	0.2	Yes
	Potassium		2690 J	5000	2690 J	5000	ug/L	--	--
	Sodium		26800	5000	26700	5000	ug/L	0.4	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		6.93 J	15	5.42 J	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.0626	0.0284	0.0628	0.0284	ug/L	0.3	Yes
SW8015B	Diesel Range Organics (C10-C28)		0.9	0.377	0.819	0.377	mg/L	9.4	Yes
	Gasoline Range Organics (C6-C10)		0.406	0.15	0.432	0.15	mg/L	6.2	Yes
SW8260B	1,1,1,2-Tetrachloroethane		ND	5	ND	5	ug/L	--	--
	1,1,1-Trichloroethane		ND	5	ND	5	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	5	ND	5	ug/L	--	--
	1,1,2-Trichloroethane		ND	5	ND	5	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106091									
SW8260B	1,1-Dichloroethane	5/9/2012	ND	5	ND	5	ug/L	--	--
	1,1-Dichloroethene		ND	5	ND	5	ug/L	--	--
	1,1-Dichloropropene		ND	5	ND	5	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2,3-Trichloropropane		ND	10	ND	10	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	5	ND	5	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	10	ND	10	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	5	ND	5	ug/L	--	--
	1,2-Dichlorobenzene		ND	5	ND	5	ug/L	--	--
	1,2-Dichloroethane		1.5 J	5	1.55 J	5	ug/L	--	--
	1,2-Dichloropropane		ND	5	ND	5	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	5	ND	5	ug/L	--	--
	1,3-Dichlorobenzene		ND	5	ND	5	ug/L	--	--
	1,3-Dichloropropane		ND	5	ND	5	ug/L	--	--
	1,4-Dichlorobenzene		ND	5	ND	5	ug/L	--	--
	2,2-Dichloropropane		ND	5	ND	5	ug/L	--	--
	2-Butanone		ND	50	ND	50	ug/L	--	--
	2-Chlorotoluene		ND	5	ND	5	ug/L	--	--
	2-Hexanone		ND	25	ND	25	ug/L	--	--
	4-Chlorotoluene		ND	5	ND	5	ug/L	--	--
	4-Methyl-2-pentanone		ND	25	ND	25	ug/L	--	--
	Acetone		89	50	104	50	ug/L	15.5	Yes
	Benzene		ND	5	ND	5	ug/L	--	--
	Bromobenzene		ND	5	ND	5	ug/L	--	--
	Bromochloromethane		ND	5	ND	5	ug/L	--	--
	Bromodichloromethane		ND	5	ND	5	ug/L	--	--
	Bromoform		ND	5	ND	5	ug/L	--	--
	Bromomethane		ND	10	ND	10	ug/L	--	--
	Carbon disulfide		ND	5	ND	5	ug/L	--	--
	Carbon tetrachloride		ND	5	ND	5	ug/L	--	--
	Chlorobenzene		ND	5	ND	5	ug/L	--	--
	Chloroethane		ND	10	ND	10	ug/L	--	--
	Chloroform		ND	5	ND	5	ug/L	--	--
	Chloromethane		ND	5	ND	5	ug/L	--	--
	cis-1,2-Dichloroethene		ND	5	ND	5	ug/L	--	--
	cis-1,3-Dichloropropene		ND	5	ND	5	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106091									
SW8260B	Dibromochloromethane	5/9/2012	ND	5	ND	5	ug/L	--	--
	Dibromomethane		ND	5	ND	5	ug/L	--	--
	Dichlorodifluoromethane		ND	10	ND	10	ug/L	--	--
	Ethylbenzene		ND	5	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	10	ND	10	ug/L	--	--
	Isopropylbenzene		ND	5	ND	5	ug/L	--	--
	Methyl t-Butyl Ether		ND	5	ND	5	ug/L	--	--
	Methylene chloride		ND	10	ND	10	ug/L	--	--
	Naphthalene		ND	10	ND	10	ug/L	--	--
	n-Butylbenzene		ND	5	ND	5	ug/L	--	--
	n-Propylbenzene		ND	5	ND	5	ug/L	--	--
	p-Isopropyltoluene		ND	5	ND	5	ug/L	--	--
	sec-Butylbenzene		ND	5	ND	5	ug/L	--	--
	Styrene		ND	5	ND	5	ug/L	--	--
	tert-Butylbenzene		ND	5	ND	5	ug/L	--	--
	Tetrachloroethene		ND	5	ND	5	ug/L	--	--
	Toluene		ND	5	ND	5	ug/L	--	--
	trans-1,2-Dichloroethene		ND	5	ND	5	ug/L	--	--
	trans-1,3-Dichloropropene		ND	5	ND	5	ug/L	--	--
	Trichloroethene		ND	5	ND	5	ug/L	--	--
	Trichlorofluoromethane		ND	10	ND	10	ug/L	--	--
	Vinyl chloride		ND	5	ND	5	ug/L	--	--
	Xylenes (total)		ND	15	ND	15	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.72	ND	4.67	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.67	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.67	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.67	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	18.7	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	46.7	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.67	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.67	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.67	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.67	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.67	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106091									
SW8270C	2-Methylphenol	5/9/2012	ND	4.72	ND	4.67	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.67	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.67	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.67	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	18.7	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.67	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.72	ND	4.67	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.67	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.67	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	18.7	ug/L	--	--
	4-Nitrophenol		ND	18.9	ND	18.7	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.67	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.67	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.67	ug/L	--	--
	Anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Atrazine		ND	4.72	ND	4.67	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.67	ug/L	--	--
	Benzidine		ND	47.2	ND	46.7	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.67	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Benzoic acid		ND	47.2	ND	46.7	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.67	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.67	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.67	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.67	ug/L	--	--
	Carbazole		ND	4.72	ND	4.67	ug/L	--	--
	Chrysene		ND	4.72	ND	4.67	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.67	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.67	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.67	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106091									
SW8270C	Di-n-butylphthalate	5/9/2012	ND	4.72	ND	4.67	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.67	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.67	ug/L	--	--
	Fluorene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.72	ND	4.67	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.67	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.72	ND	4.67	ug/L	--	--
	Isophorone		ND	4.72	ND	4.67	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.67	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.67	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.72	ND	4.67	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.67	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	18.7	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.67	ug/L	--	--
	Phenol		ND	4.72	ND	4.67	ug/L	--	--
	Pyrene		ND	4.72	ND	4.67	ug/L	--	--
KAFB-106099									
E300.0	Chloride	5/8/2012	26.8	1	26.5	1	mg/L	1.1	Yes
	Sulfate as SO4		59.5	2.5	59.2	2.5	mg/L	0.5	Yes
E353.2	Nitrate/Nitrite as N		1.66	1.5	1.66	1.5	mg/L	0	Yes
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		85.7	1	87.7	1	mg/L	2.3	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	ND	3.45	mg/L	--	--
SW6010B	Calcium		49200	5000	50200	5000	ug/L	2	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6780	5000	6980	5000	ug/L	2.9	Yes
	Potassium		2690 J	5000	2730 J	5000	ug/L	--	--
	Sodium		24000	5000	24500	5000	ug/L	2.1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0293	ND	0.0285	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.392	ND	0.392	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106099									
SW8260B	1,1,2,2-Tetrachloroethane	5/8/2012	ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106099									
SW8260B	cis-1,2-Dichloroethene	5/8/2012	ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		0.47 J	1	0.48 J	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	10	ND	4.67	ug/L	--	--
	1,2-Diphenylhydrazine		ND	10	ND	4.67	ug/L	--	--
	1-Methylnaphthalene		ND	10	ND	4.67	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	10	ND	4.67	ug/L	--	--
	2,4,5-Trichlorophenol		ND	10	ND	4.67	ug/L	--	--
	2,4,6-Trichlorophenol		ND	10	ND	4.67	ug/L	--	--
	2,4-Dichlorophenol		ND	10	ND	4.67	ug/L	--	--
	2,4-Dimethylphenol		ND	40	ND	18.7	ug/L	--	--
	2,4-Dinitrophenol		ND	100	ND	46.7	ug/L	--	--
	2,4-Dinitrotoluene		ND	10	ND	4.67	ug/L	--	--
	2,6-Dinitrotoluene		ND	10	ND	4.67	ug/L	--	--
	2-Chloronaphthalene		ND	10	ND	4.67	ug/L	--	--

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Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106099									
SW8270C	2-Chlorophenol	5/8/2012	ND	10	ND	4.67	ug/L	--	--
	2-Methylnaphthalene		ND	10	ND	4.67	ug/L	--	--
	2-Methylphenol		ND	10	ND	4.67	ug/L	--	--
	2-Nitroaniline		ND	40	ND	18.7	ug/L	--	--
	2-Nitrophenol		ND	10	ND	4.67	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	10	ND	4.67	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	10	ND	4.67	ug/L	--	--
	3-Nitroaniline		ND	40	ND	18.7	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	40	ND	18.7	ug/L	--	--
	4-Bromophenyl-phenylether		ND	10	ND	4.67	ug/L	--	--
	4-Chloro-3-methylphenol		ND	10	ND	4.67	ug/L	--	--
	4-Chloroaniline		ND	10	ND	4.67	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	10	ND	4.67	ug/L	--	--
	4-Nitroaniline		ND	40	ND	18.7	ug/L	--	--
	4-Nitrophenol		ND	40	ND	18.7	ug/L	--	--
	Acenaphthene		ND	10	ND	4.67	ug/L	--	--
	Acenaphthylene		ND	10	ND	4.67	ug/L	--	--
	Acetophenone		ND	10	ND	4.67	ug/L	--	--
	Anthracene		ND	10	ND	4.67	ug/L	--	--
	Atrazine		ND	10	ND	4.67	ug/L	--	--
	Benzaldehyde		ND	10	ND	4.67	ug/L	--	--
	Benzidine		ND	100	ND	46.7	ug/L	--	--
	Benzo(a)anthracene		ND	10	ND	4.67	ug/L	--	--
	Benzo(a)pyrene		ND	10	ND	4.67	ug/L	--	--
	Benzo(b)fluoranthene		ND	10	ND	4.67	ug/L	--	--
	Benzo(g,h,i)perylene		ND	10	ND	4.67	ug/L	--	--
	Benzo(k)fluoranthene		ND	10	ND	4.67	ug/L	--	--
	Benzoic acid		ND	100	ND	46.7	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	10	ND	4.67	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	10	ND	4.67	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	10	ND	4.67	ug/L	--	--
	Butylbenzylphthalate		ND	10	ND	4.67	ug/L	--	--
	Caprolactam		ND	10	ND	4.67	ug/L	--	--
	Carbazole		ND	10	ND	4.67	ug/L	--	--
	Chrysene		ND	10	ND	4.67	ug/L	--	--
	Dibenz(a,h)anthracene		ND	10	ND	4.67	ug/L	--	--
	Dibenzofuran		ND	10	ND	4.67	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106099									
SW8270C	Diethylphthalate	5/8/2012	ND	10	ND	4.67	ug/L	--	--
	Dimethyl phthalate		ND	10	ND	4.67	ug/L	--	--
	Di-n-butylphthalate		ND	10	ND	4.67	ug/L	--	--
	Di-n-octylphthalate		ND	10	ND	4.67	ug/L	--	--
	Fluoranthene		ND	10	ND	4.67	ug/L	--	--
	Fluorene		ND	10	ND	4.67	ug/L	--	--
	Hexachlorobenzene		ND	10	ND	4.67	ug/L	--	--
	Hexachlorobutadiene		ND	10	ND	4.67	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	4.67	ug/L	--	--
	Hexachloroethane		ND	10	ND	4.67	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	10	ND	4.67	ug/L	--	--
	Isophorone		ND	10	ND	4.67	ug/L	--	--
	Naphthalene		ND	10	ND	4.67	ug/L	--	--
	Nitrobenzene		ND	10	ND	4.67	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	10	ND	4.67	ug/L	--	--
	N-Nitrosodiphenylamine		ND	10	ND	4.67	ug/L	--	--
	Pentachlorophenol		ND	40	ND	18.7	ug/L	--	--
	Phenanthrene		ND	10	ND	4.67	ug/L	--	--
	Phenol		ND	10	ND	4.67	ug/L	--	--
	Pyrene		ND	10	ND	4.67	ug/L	--	--
KAFB-106106									
E300.0	Chloride	4/23/2012	15.9	0.5	15.8	0.5	mg/L	0.6	Yes
	Sulfate as SO4		44.5	2	44.6	2	mg/L	0.2	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		107	1	111	1	mg/L	3.7	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		44300	5000	41900	5000	ug/L	5.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6010	5000	5660	5000	ug/L	6	Yes
	Potassium		2450 J	5000	2320 J	5000	ug/L	--	--
	Sodium		23800	5000	22500	5000	ug/L	5.6	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.198	0.0281	0.183	0.0278	ug/L	7.9	Yes
SW8015B	Diesel Range Organics (C10-C28)		ND	0.1	ND	0.1	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--

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Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106106									
SW8260B	1,1,1,2-Tetrachloroethane	4/23/2012	ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106106									
SW8260B	Chloroform	4/23/2012	ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	5	ND	4.67	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.67	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	4.67	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.67	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.67	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.67	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.67	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	18.7	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	46.7	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.67	ug/L	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106106									
SW8270C	2,6-Dinitrotoluene	4/23/2012	ND	5	ND	4.67	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.67	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.67	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	4.67	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.67	ug/L	--	--
	2-Nitroaniline		ND	20	ND	18.7	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.67	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.67	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.67	ug/L	--	--
	3-Nitroaniline		ND	20	ND	18.7	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	18.7	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.67	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.67	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.67	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.67	ug/L	--	--
	4-Nitroaniline		ND	20	ND	18.7	ug/L	--	--
	4-Nitrophenol		ND	20	ND	18.7	ug/L	--	--
	Acenaphthene		ND	5	ND	4.67	ug/L	--	--
	Acenaphthylene		ND	5	ND	4.67	ug/L	--	--
	Acetophenone		ND	5	ND	4.67	ug/L	--	--
	Anthracene		ND	5	ND	4.67	ug/L	--	--
	Atrazine		ND	5	ND	4.67	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.67	ug/L	--	--
	Benzidine		ND	50	ND	46.7	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.67	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.67	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.67	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.67	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.67	ug/L	--	--
	Benzoic acid		ND	50	ND	46.7	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.67	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.67	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.67	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.67	ug/L	--	--
	Caprolactam		ND	5	ND	4.67	ug/L	--	--
	Carbazole		ND	5	ND	4.67	ug/L	--	--
	Chrysene		ND	5	ND	4.67	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
KAFB-106106									
SW8270C	Dibenz(a,h)anthracene	4/23/2012	ND	5	ND	4.67	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.67	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.67	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.67	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.67	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.67	ug/L	--	--
	Fluoranthene		ND	5	ND	4.67	ug/L	--	--
	Fluorene		ND	5	ND	4.67	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.67	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.67	ug/L	--	--
	Hexachlorocyclopentadiene		ND	5	ND	4.67	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.67	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.67	ug/L	--	--
	Isophorone		ND	5	ND	4.67	ug/L	--	--
	Naphthalene		ND	5	ND	4.67	ug/L	--	--
	Nitrobenzene		ND	5	ND	4.67	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.67	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.67	ug/L	--	--
	Pentachlorophenol		ND	20	ND	18.7	ug/L	--	--
	Phenanthrene		ND	5	ND	4.67	ug/L	--	--
	Phenol		ND	5	ND	4.67	ug/L	--	--
	Pyrene		ND	5	ND	4.67	ug/L	--	--
ST106-VA2									
E300.0	Chloride	4/4/2012	31.2	0.5	31.3	0.5	mg/L	0.3	Yes
	Sulfate as SO4		25.1	2	25.3	2	mg/L	0.8	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		101	1	99.1	1	mg/L	1.9	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	0.157 J	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.64	ND	3.57	mg/L	--	--
SW6010B	Calcium		36200	5000	37700	5000	ug/L	4.1	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7170	5000	7420	5000	ug/L	3.4	Yes
	Potassium		3640 J	5000	3790 J	5000	ug/L	--	--
	Sodium		22400	5000	23100	5000	ug/L	3.1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0286	ND	0.0287	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
ST106-VA2									
SW8015B	Diesel Range Organics (C10-C28)	4/4/2012	ND	0.0943	ND	0.0943	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
ST106-VA2									
SW8260B	Chlorobenzene	4/4/2012	ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	1	ND	1	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	1	ND	1	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270C	1,1-Biphenyl		ND	4.9	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.9	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.9	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	19.6	ND	19.6	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
ST106-VA2									
SW8270C	2,4-Dinitrophenol	4/4/2012	ND	49	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.9	ND	4.9	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.9	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	4.9	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	4.9	ND	4.9	ug/L	--	--
	2-Methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	4.9	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.9	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.6	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.9	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.9	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	4.9	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.9	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	19.6	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	19.6	ND	19.6	ug/L	--	--
	Acenaphthene		ND	4.9	ND	4.9	ug/L	--	--
	Acenaphthylene		ND	4.9	ND	4.9	ug/L	--	--
	Acetophenone		ND	4.9	ND	4.9	ug/L	--	--
	Anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Atrazine		ND	4.9	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	4.9	ND	4.9	ug/L	--	--
	Benzidine		ND	49	ND	49	ug/L	--	--
	Benzo(a)anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.9	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Benzoic acid		ND	49	ND	49	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.9	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.9	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.9	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Caprolactam		ND	4.9	ND	4.9	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
ST106-VA2									
SW8270C	Carbazole	4/4/2012	ND	4.9	ND	4.9	ug/L	--	--
	Chrysene		ND	4.9	ND	4.9	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.9	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	4.9	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	4.9	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	4.9	ND	4.9	ug/L	--	--
	Fluoranthene		ND	4.9	ND	4.9	ug/L	--	--
	Fluorene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	4.9	ND	4.9	ug/L	--	--
	Hexachloroethane		ND	4.9	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.9	ND	4.9	ug/L	--	--
	Isophorone		ND	4.9	ND	4.9	ug/L	--	--
	Naphthalene		ND	4.9	ND	4.9	ug/L	--	--
	Nitrobenzene		ND	4.9	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.9	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.9	ND	4.9	ug/L	--	--
	Pentachlorophenol		ND	19.6	ND	19.6	ug/L	--	--
	Phenanthrene		ND	4.9	ND	4.9	ug/L	--	--
	Phenol		ND	4.9	ND	4.9	ug/L	--	--
	Pyrene		ND	4.9	ND	4.9	ug/L	--	--
SW8270C-PAH	1-Methylnaphthalene		ND	0.196	ND	0.196	ug/L	--	--
	2-Methylnaphthalene		ND	0.196	ND	0.196	ug/L	--	--
	Acenaphthene		ND	0.196	ND	0.196	ug/L	--	--
	Acenaphthylene		ND	0.196	ND	0.196	ug/L	--	--
	Anthracene		ND	0.196	ND	0.196	ug/L	--	--
	Benzo(a)anthracene		ND	0.196	ND	0.196	ug/L	--	--
	Benzo(a)pyrene		ND	0.196	ND	0.196	ug/L	--	--
	Benzo(b)fluoranthene		ND	0.196	ND	0.196	ug/L	--	--
	Benzo(g,h,i)perylene		ND	0.196	ND	0.196	ug/L	--	--
	Benzo(k)fluoranthene		ND	0.196	ND	0.196	ug/L	--	--
	Chrysene		ND	0.196	ND	0.196	ug/L	--	--
	Dibenz(a,h)anthracene		ND	0.196	ND	0.196	ug/L	--	--
	Fluoranthene		ND	0.196	ND	0.196	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Second Quarter 2012
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
ST106-VA2									
SW8270C-PAH	Fluorene	4/4/2012	ND	0.196	ND	0.196	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	0.196	ND	0.196	ug/L	--	--
	Naphthalene		ND	0.196	ND	0.196	ug/L	--	--
	Phenanthrene		ND	0.196	ND	0.196	ug/L	--	--
	Pyrene		ND	0.196	ND	0.196	ug/L	--	--

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

LOQ limit of quantitation
 RPD relative percent difference
 ND not detected at the LOQ
 mg/L milligrams per liter
 µg/L micrograms per liter

RPD formula = $100 \times | \text{Primary Result} - \text{Duplicate Result} | / ((\text{Primary Result} + \text{Duplicate Result}) / 2)$

-- Not applicable since RPD not calculated. RPD is only calculated when the analyte is detected at or above the LOQ in both the normal sample and the duplicate sample.

Appendix B1 - Table 7
Technical Completeness
Groundwater Monitoring Event, Second Quarter 2012
Kirtland Air Force Base

Analytical Method	Number of Analytes	Number of Samples	Number of Results	Number of Useable Results	Technical Completeness [Goal = 95 percent] (percent)
Environmental Samples					
E300.0	2	121	242	242	100.0
E353.2	1	121	121	121	100.0
SM2320B	2	121	242	242	100.0
SM4500NH3BG	1	121	121	121	100.0
SM4500S2CF	1	121	121	121	100.0
SW6010B	7	121	847	847	100.0
SW8011	1	121	121	121	100.0
SW8015B - Diesel	1	121	121	121	100.0
SW8015B - Gasoline	1	121	121	121	100.0
SW8260B	64	121	7744	7744	100.0
SW8270C	69	121	8349	8349	100.0
SW8270C-PAH	18	2	36	36	100.0
Field QC Samples					
SW6010B	7	2	14	14	100.0
SW8015B - Diesel	1	2	2	2	100.0
SW8015B - Gasoline	1	2	2	2	100.0
SW8260B	64	27	1728	1728	100.0
SW8270C	69	2	138	138	100.0

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