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Final Report for the Remedial Investigation of DP-63—Disposal Pit 63

Holloman Air Force Base,
New Mexico

August 2003

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49 CES/CEV
Holloman Air Force Base,
New Mexico

Project Number: KWRD20027005

FINAL REPORT
FOR THE REMEDIAL INVESTIGATION
OF DP-63—DISPOSAL PIT 63

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NMED Hazardous
Waste Bureau

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Under Contract No. DACW45-94-D-0003

Delivery Order No. 37, Work Authorization Directive 9

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

August 2003

Project Number: KWRD20027005

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LIST OF ACRONYMS

AFB	Air Force Base
ARAR	Applicable or Relevant and Appropriate Requirement
atm-m^3/mol	atmosphere-cubic meters per mole
bgs	below ground surface
CESQ	cumulative ecological screening quotient
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
COPC	chemicals of potential concern
COPEC	chemicals of potential ecological concern
DP-63	Disposal Pit 63
DPT	direct-push technology
DRO	diesel-range organics
EEL	estimated exposure level
EOD	explosive ordnance disposal
EPA	United States Environmental Protection Agency
ESQ	ecological screening quotient
FID	flame ionization detector
Foster Wheeler Environmental	Foster Wheeler Environmental Corporation
ft	foot/feet
GPS	global positioning system
GRO	gasoline-range organics
HHRA	human health risk assessment
HWB	Hazardous Waste Bureau
K_{oc}	organic carbon partition coefficient
K_{ow}	octanol-water partition coefficient
Log(K_{ow})	base 10 logarithm K_{ow}
MDL	method detection limit
mg/kg	milligrams per kilograms
mg/L	milligrams per liter
mm	millimeters
mm Hg	millimeter of Mercury
msl	mean sea level
NOAEL	no observable adverse effects level
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
ORO	oil-range organics
PA	Preliminary Assessment
PCOPEC	preliminary chemicals of potential ecological concern
PID	photoionization detector

ACRONYMS (Concluded)

QAPP	Quality Assurance Project Plan
RI	Remedial Investigation
RCRA	Resource Conservation and Recovery Act
SI	site inspection
SLERA	screening-level ecological risk assessment
SSL	soil-screening level
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TAL	target analyte list
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
TRPH	total recoverable petroleum hydrocarbons
TRV	toxicity reference value
USACE	U. S. Army Corps of Engineers
UXO	unexploded ordnance
VOC	volatile organic compound
	micrograms per kilogram
μg/L	micrograms per liter

1.0 INTRODUCTION

This report presents the results of the Foster Wheeler Environmental Corporation (Foster Wheeler Environmental) Remedial Investigation (RI) of Disposal Pit 63 (DP-63) at Holloman Air Force Base (AFB), New Mexico (Figure 1-1). The investigation, performed under the oversight of the New Mexico Environment Department (NMED), was required to determine the source, nature and extent of contamination observed during the Preliminary Assessment/Site Inspection (PA/SI) (Foster Wheeler Environmental, 2001) of DP-63. The RI, which was conducted following United States Environmental Protection Agency (EPA) guidance under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (EPA 1991), was performed for the U.S. Army Corps of Engineers (USACE), Omaha District, under Total Environmental Restoration Contract Number DACW45-94-D-0003. The RI field activities were conducted in accordance with the final work plan (Foster Wheeler Environmental, 2002), as described in Section 2.0.

1.1 PURPOSE

The purpose of this report is to present the results of the RI of DP-63 and the surrounding area. These results were used to complete the following assessments:

- Confirm the existence of disposal features at three investigation sites
- Evaluate soil and groundwater sampling results, along with information on site cultural features, to assess whether soil and/or groundwater have been impacted by site activities
- Evaluate the risks of site contaminants to human health and the environment by performing a human health risk assessment (HHRA) and screening-level ecological risk assessment (SLERA)

The conclusions of the assessments listed above are intended to support recommendations regarding DP-63.

1.2 SITE DESCRIPTION AND BACKGROUND

DP-63 is located in the northern portion of the Ammunition Storage Facility on the eastern side of the Base (Figure 1-2). Originally, the disposal pit areas were located immediately north and outside of the facility, but as a result of the expansion of the storage yard in the 1960s, the site was within the compound. There are three disposal areas associated with DP-63. Two separate disposal pit areas (the East and West areas) were originally identified by Base Explosive Ordnance Disposal (EOD) personnel. The North Area location was identified during the PA/SI. Results of the geophysical survey are discussed

in the PA/SI report (Foster Wheeler Environmental, 2001), and figures from the geophysical survey are presented for reference in Appendix E. Descriptions of the three disposal areas are presented below:

- East Area: Located on the east side of DP-63, this site covers an area of approximately 15,000 square feet (ft), and may contain several distinct disposal pits that extend to depths ranging from 6 to 8 ft below ground surface (bgs). Miscellaneous small arms (30- and 50-caliber cartridges and bullets) are scattered throughout the area. During the PA/SI geophysical survey, an anomaly was detected is an area of subsurface disposal less than 2 ft bgs and containing the metallic equivalent of two or three 55-gallon drums.

- West Area: Located on the west side of DP-63, this small disposal feature covers an area up to 100 square ft and extends to a depth of 6 ft bgs. Miscellaneous small arms (30- and 50-caliber cartridges and bullets) are scattered throughout the area. A shallow anomaly (<1 ft bgs), equivalent in metal content to a 55-gallon drum, was detected during the PA/SI geophysical survey.

- North Area: Located on the north side of DP-63, this disposal feature covers an area of approximately 90,000 square ft and may extend to a depth of 6 ft bgs. Large amounts of scrap metal and exploded ordnance fragments are scattered throughout the area. A geophysical anomaly equivalent in metallic content to five or more 55-gallon drums coincides with a high concentration of scrap metal and fragments at the surface. A low soil berm (approximately 6 inches high) surrounds the area.

During past operations, munitions were placed into the disposal pits with diesel fuel and wood pallets and ignited to render the ordnance inert. Fuel may have seeped into the soil directly below the disposal areas. The types of ordnance that were treated include munitions ranging from 20-caliber and 50-caliber small arms rounds to grenades. DP-63 was previously referred to as the "bomb dump" by Base EOD personnel. Base environmental personnel performed a visual inspection of the area during summer 1997 and found scrap metal fragments from disposed munitions, exposed as a result of erosion of the ground surface throughout the area. The Holloman AFB Resource Conservation and Recovery Act (RCRA) Part B permit requires the Base to identify potential solid waste management units (SWMUs) and determine whether this site should be classified as a SWMU requiring corrective action investigation under RCRA.

1.3 SUMMARY OF PREVIOUS INVESTIGATIONS

During the PA/SI in 2000 Foster Wheeler Environmental personnel conducted interviews with Base personnel, performed a records search, and conducted a geophysical survey of three sites to determine the

presence of the buried metal debris and other potential sources. Based on these results, Foster Wheeler Environmental personnel located, drilled, and sampled four direct-push technology (DPT) soil borings to assess the presence and extent of soil and groundwater contamination.

During the PA/SI field activities (Foster Wheeler Environmental 2001), three areas were investigated within DP-63: the East Area, the West Area, and the North Area. The North Area was discovered as a potential disposal site during this investigation. Geophysical surveys were performed in each area to locate and determine the extent of any buried metal debris. Based on a records search and a review of utility and geophysical survey data, four DPT sampling locations were selected. Subsurface soil samples were collected from these four DPT borings in order to assess the impact of site activities on the soil and groundwater at DP-63.

Analytical results for the subsurface soil samples collected at DP-63 showed detections of total recoverable petroleum hydrocarbons (TRPH), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), cyanide, and target analyte list (TAL) metals (totals). VOC and SVOC detections in the East Area are likely due to the presence of fuels that have remained in the soil since disposal operations ceased. TRPH detections indicate low-level concentrations of fuel remain in the soil at the East and West areas. Analytical results confirmed that the groundwater at DP-63 contains no explosives and that free-phase fuel product was not observed in any groundwater samples; however, the presence of organic constituents in the saturated soil samples that were collected indicates that groundwater is potentially impacted by dissolved constituents. No analytical samples were collected from the North Area during the PA/SI.

1.4 DOCUMENT ORGANIZATION

This RI report presents information gathered as a result of the PA/SI (Foster Wheeler Environmental 2001) and RI to support recommendations for DP-63. The remainder of this report is organized into the following sections:

- Section 2.0—RI Field Program
- Section 3.0—Physical Setting
- Section 4.0—Applicable or Relevant and Appropriate Requirements
- Section 5.0—Nature and Extent of Contamination
- Section 6.0—Contaminant Fate and Transport

- Section 7.0—Human Health and Ecological Risk Assessments
- Section 8.0—Conclusions and Recommendations
- Section 9.0—References

Figures and tables are presented at the end of each section.

Appendix A provides supporting information necessary to evaluate the chemical analytical data, and it is presented in the form of the Data Quality Control Summary Report and accompanying laboratory reports. Appendix B presents field borehole logs, well construction diagrams and well development logs. Appendix C is the ecological risk assessment. Geographic survey information is presented in Appendix D. Current photographs and historical aerial photographs of DP-63 and the surrounding area and maps of the geophysical surveys conducted during the PA/SI are presented in Appendix E.

2.0 REMEDIAL INVESTIGATION FIELD PROGRAM

This section of the RI report explains the objectives and technical approach of each field activity performed for the investigation at DP-63. This section also describes the sampling rationale, techniques and locations that were used to evaluate the nature and extent of any soil and/or groundwater contamination in the area. Generally, RI field activities were conducted in the following series of steps:

- In July 2002, 15 surface soil and DPT sampling locations were selected to assess the presence and extent of any munitions and the extent of any soil and/or groundwater contamination. Eight of the borings were shallow borings (21 ft bgs) and seven borings were deep borings (they extended below the water table). Total depths of the deep borings ranged from 48.5 to 58.5 ft bgs. Temporary piezometers were installed and monitored in three of the deep borings to provide hydraulic gradient data. Table 2-1 presents a summary of the locations sampled during the RI.

- In late-August 2002, five monitoring wells were installed, developed and sampled to assess the extent of groundwater contamination in the East and North areas, to establish background concetrations for the site, and to provide data for the human health and ecological risk assessments. The wells were developed and sampled in early-September 2002.

The investigative steps and related activities are described in more detail in the following sections. A summary of the samples collected during the RI is provided in Table 2-1.

2.1 SURFACE SOIL SAMPLING

Fifteen locations were chosen for surface soil sampling, as shown in Figure 2-1. Surface soil samples were collected from the 0 to 0.5-ft interval. Except for in the West Area, all surface sampling locations corresponded to DPT boring locations. DP11 did not have a corresponding surface soil sample; but the designated surface soil sample for DP11 was sampled in the center of the geophysical anomaly in the West Area as denoted in Figure 2-1. Samples were collected using a decontaminated stainless steel hand auger and were analyzed for VOCs, SVOCs, explosives, total TAL metals, cyanide and total petroleum hydrocarbons (TPH) as oil-range organics (ORO), gasoline-range organics (GRO) and diesel-range organics (DRO). The samples were analyzed in accordance with the Quality Assurance Project Plan (QAPP) presented in the final work plan (Foster Wheeler Environmental, 2002).

2.2 DIRECT-PUSH TECHNOLOGY SOIL SAMPLING

Based on the results of the records search, geophysical surveys of the North, West and East areas, and 4 previous DPT boring locations (DP01, DP02, DP03, and DP04), an additional 15 boring locations were

selected (DP05 through DP19) in the West, East and North areas, the purpose of which was to further characterize the extent of soil contamination in each of these areas. The locations of the DPT borings are presented in Figure 2-1.

Prior to drilling, the ground surface at all boring locations was cleared for unexploded ordnance (UXO) by trained personnel. A downhole UXO clearance was then performed for every 2 ft of drilling to a depth of 12 ft. All UXO clearance activities were conducted in accordance with the final work plan (Foster Wheeler Environmental 2002a). No subsurface metallic debris was detected in any of the borings.

Subsurface soil samples (52 samples) were collected at each of the 15 DPT boring locations. The 52 soil samples were analyzed offsite for VOCs, SVOCs, explosives, TAL metals, cyanide and TPH as ORO, GRO and DRO. The samples were analyzed in accordance with the QAPP presented in the final work plan (Foster Wheeler Environmental, 2002).

Subsurface soil cores (4 ft in length) were collected continuously by the DPT drilling rig from the ground surface to the water table at each DPT boring location. Soil contained within the core was used for lithologic description and subsequent sample collection. Soil was collected in glass jars and immediately placed on ice for shipment to the analytical laboratory. Soil drilling logs containing a description of the soil encountered during drilling are presented in Appendix B.

Samples were collected at the following approximate depths: 4 ft to 5 ft bgs, 9 ft to 10 ft bgs, 20 ft to 25 ft bgs, and 43 ft to 48 ft bgs. Base personnel described the disposal pits at DP-63 as "being 6 ft to 10 ft in depth" (Cimino 2000). The 4 ft to 5 ft bgs and 9 ft to 10 ft bgs samples were collected because they lie within and just below this depth interval. Samples collected at 20 ft to 25 ft bgs were selected because this depth range is approximately halfway between ground surface and the water table. Samples were also collected between 43 ft to 48 ft bgs from deep borings to aid in evaluating the potential presence of contamination in water-saturated soil at the capillary fringe.

An evaluation of the soil sample analytical results is presented in Section 5.2.

2.3 MONITORING WELL AND PIEZOMETER INSTALLATION AND GROUNDWATER SAMPLING

Five monitoring well locations were chosen to establish groundwater sampling points. One upgradient location was selected to establish background concentrations for the site (MW01). Two locations corresponded with deep boring and temporary piezometer installations (MW04 with DP07, and MW02 with DP15) at the East and North areas, respectively. Two downgradient locations were also chosen, one

for the North Area (MW03) and one for the East Area (MW05). These locations were selected to be approximately 200 ft to 250 ft downgradient of the associated area wells. All monitoring well locations are shown on Figure 2-1.

2.3.1 Monitoring Well Installation

Monitoring wells were installed using a 8-inch outside-diameter hollow stem auger. Lithologic descriptions of soil cuttings generated during the drilling of the well borings are included in Appendix B. No soil samples were collected during monitoring well installation. Depths of borings ranged from 55 ft to 58.5 ft bgs. Monitoring well construction diagrams are also included in Appendix B.

2.3.1 Monitoring Well Groundwater Sampling

Monitoring wells were developed and sampled using bailers because the groundwater was slow to recharge. Groundwater samples were collected and analyzed for VOCs, SVOCs, explosives, TAL metals and total dissolved solids (TDS).

2.4 LOCATION AND ELEVATION SURVEYING

Trained site personnel operated a portable global positioning system (GPS) unit to survey RI sample locations, geophysical survey area corners, and the position of important cultural features. These data were used to create an accurate map for the RI report and support the electronic data deliverable. All survey data obtained with the GPS unit are reported in New Mexico state planar coordinates and are based on the 1983 North American Datum used by the Holloman AFB geographic information system. The survey data were entered into the Environmental Resource Program Information Management System for data storage and reporting.

Monitoring wells were survey by a licensed surveyor and are reported in New Mexico state planar coordinates and are based on the 1983 North American Datum used by the Holloman AFB geographic information system.

Appendix D presented the survey data for locations sampled during the RI.

3.0 PHYSICAL SETTING

This section describes the environmental setting of Holloman AFB including detailed discussions of geography, physiography, geology, hydrology, and hydrogeology. The information was compiled from existing Base records, published literature, previous reports, and the results of the PA/SI and RI field investigations.

3.1 GEOGRAPHY

Holloman AFB is situated in south-central New Mexico, in the northwest-central part of Otero County (Figure 1-1). The Base occupies about 50,000 acres in the northeast quarter of Township 17S, Range 8E. The White Sands Missile Range testing facilities occupy additional land to the north. Private and public lands border the remainder of the Base. The major highway serving the Base is New Mexico Highway 70, which runs southwest from the city of Alamogordo and forms a boundary between the Base and public lands. The city of Alamogordo is located approximately 7 miles east of the Base. With a population of approximately 31,000, it is the only town of appreciable size within 40 miles of the Base. Holloman AFB has a population of approximately 5,500.

3.2 PHYSIOGRAPHY

The Base is located in the Tularosa Basin, which is bounded by the San Andres Mountains located approximately 30 miles to the west and the Sacramento Mountains located approximately 10 miles to the east. The interior of the Tularosa Basin plain has low relief, with elevations ranging from about 4,000 ft above mean sea level (msl) in the southwest to about 4,400 ft above msl in the northeast. The surrounding mountains reach 7,000 to 12,000 ft in elevation.

The climate in the Tularosa Basin is arid with low annual rainfall and low relative humidity. The surrounding mountain ranges greatly influence local weather, since they modify approaching weather systems and provide orographic lifting, which produces summer thunderstorms. The mean annual precipitation is 7.9 inches, mostly from thunderstorm activity from May through October. Winter is generally dry and is characterized by clear skies and occasional snowfall. The period from March through May is characterized by strong southerly winds and periods of blowing dust and sand.

3.3 REGIONAL GEOLOGY

The Tularosa Basin is a bolson, or a basin that has no surface drainage outlet. Bolson deposits are sediments carried by water into a closed basin. The bolson fill in the Tularosa Basin is derived from the erosion of limestone, dolomite, and gypsum in the surrounding mountains. Coarser material is deposited at the base of the mountains; finer material is carried to the interior of the basin. The near-surface bolson

deposits consist of sediments that have alluvial, eolian (wind-blown), and lacustrine (lake-bed), or playa origins.

Alluvial fan deposits are characteristically laterally discontinuous units of interbedded sand, silt, and clay; the eolian deposits consist primarily of gypsum sand. Alluvial and eolian deposits are often indistinguishable because of the reworking of alluvial sediments by eolian processes. Lacustrine, or playa, deposits in the area consist of clay containing gypsum crystals and are juxtaposed with alluvial fan and eolian deposits throughout the Base (Foster Wheeler Environmental and Radian 1994).

3.4 HYDROLOGY AND HYDROGEOLOGY

Both surface water and groundwater contribute to the hydrological and hydrogeological setting at Holloman AFB and are described in detail below, as is a discussion of the hydrology specific to DP-63.

3.4.1 Regional Surface Water Hydrology

Since the Tularosa Basin is a closed basin with no surface water outlet, water is lost to evaporation, transpiration, and infiltration. Water also collects in Lake Lucero, the lowest point in the basin, which is approximately 20 miles southwest of Holloman AFB.

Holloman AFB is crossed by several southwest-trending arroyos that control surface drainage in the undeveloped part of the Base (Figure 3-1). These arroyos consist of Hay Draw, in the far northern part of the Base; Malone Draw and Rita's Draw, which drain into Lost River; and Dillard Draw to the east, which runs in a southwesterly direction along the eastern and southern boundaries of the Base. Lost River, the largest arroyo, is dammed within the Base, near the western boundary, and runoff from Lost River, Malone Draw, and Rita's Draw collects in the dammed area. Drainage within the developed portions of the Base flows through ditches and culverts to various outfall areas.

The mean annual lake evaporation rate, commonly used as an estimate of the mean annual evapotranspiration potential, is approximately 67 inches per year (Foster Wheeler Environmental and Radian 1997). Therefore, the amount of precipitation that infiltrates the soil in this part of the basin is very low.

3.4.2 Regional Groundwater Hydrogeology

Groundwater occurs under unconfined conditions in the unconsolidated bolson deposits beneath Holloman AFB. The primary source of recharge for groundwater in the bolson aquifer is percolation of rainfall and stream runoff through the coarse, unconsolidated alluvial fan deposits along the western flank of the Sacramento Mountains. Water migrates downward into the alluvial sediment at the edge of the

shallow bolson aquifer and flows downgradient through progressively finer-grained sediment into the basin. Beneath Holloman AFB, the depth to groundwater ranges from less than 5 ft to nearly 50 ft bgs.

In the vicinity of Holloman AFB, groundwater generally flows toward the west and southwest, following surface topography. In the southeastern portion of the Base, groundwater generally flows southwest toward the Dillard Draw surficial drainage system. In the northern and western portions of the Base, groundwater flows more to the west toward the Rita's Draw, Malone Draw, and Lost River drainages. Groundwater flow is affected by local topography in areas immediately adjacent to arroyos, where groundwater flows directly toward the drainages regardless of the regional flow pattern.

Water quality in the Tularosa Basin is relatively fresh near the recharge areas at the base of the mountains, but it degrades as a result of an increase in dissolved solids as the groundwater flows toward the interior of the basin.

On the basis of New Mexico Water Quality Control Commission (NMWQCC) Regulations (NMWQCC 82-1, as amended through August 18, 1991, Parts 3-100 through 3-103), the groundwater beneath Holloman AFB is designated as unfit for human consumption because it exceeds New Mexico human health standards for TDS and sulfate. TDS exceeds 10,000 ml/L across much of the Tularosa Basin. Using EPA guidelines (EPA 1986), the groundwater is Class IIIB. Class III groundwater is characterized by a TDS concentration greater than 10,000 milligrams per liter (mg/L) and is, therefore, not considered a source or a potential source of drinking water. Class IIIB groundwater is also characterized by a low degree of interconnection with adjacent surface waters or groundwater of a higher class. Groundwater does not discharge or connect to any adjacent aquifers because the Tularosa Basin is a closed basin. Adjacent surface waters include Lost River and Lake Holloman, which also have high concentrations of TDS, and are not considered potential drinking water sources.

3.4.3 Site-Specific Hydrology

The DP-63 area is underlain by silts, clays, and silty clays that contain an abundance of gypsum crystals within the unsaturated vadose zone. These lithologies are laterally discontinuous over the distance between the West and East areas.

The depth to groundwater measured in the new DP-63 area monitoring wells and the temporary piezometer in the West Area ranged from approximately 51 ft bgs in the East Area to approximately 46 ft bgs in the North Area (Table 3-1). Figure 3-2 illustrates the water table elevations beneath the site as determined in September 2002.

Table 3-1. Water Level Data for DP-63, September 2002

Well ID	Location	Top of Casing Elevation (ft msl)	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft msl)
MW01	Upgradient (northeast) of DP-63	4145.81	54.02	4091.79
MW02	North Area (DP15)	4142.10	51.63	4090.47
MW03	Downgradient of North Area	4139.90	50.05	4089.85
MW04	East Area (DP07)	4135.64	45.81	4089.83
MW05	Downgradient of North Area	4136.19	46.74	4089.45
DP11	West Area temporary piezometer	4130.06	43.45	4086.61

Based on water level data collected in September 2002, the hydraulic gradient is approximately 0.001 ft/ft to the southwest (Figure 3-2). The groundwater flow velocity in the vicinity of DP-63 is 0.002 feet per day (ft/day) based on a hydraulic conductivity of 0.9 ft/day (3.32×10^{-4} centimeters per day [Foster Wheeler 2002b) and a porosity of 40%. Based on the coverage of wells across the site, it appears as though groundwater flow in this part of the Base is consistent with the general flow direction observed in this part of the Tularosa Basin.

Samples for TDS were collected from each of the monitoring wells at DP-63. TDS ranged from 17,600 to 22,800 mg/L in samples collected in September 2002 and indicate that groundwater is nonpotable beneath DP-63.

Recharge was so slow at the temporary well point installed at the West Area that the well point was bailed dry and complete recovery required almost four days. A groundwater sample, therefore, was not collected at this location. No aquifer tests were conducted during the RI and samples were not collected to quantify the hydraulic conductivity of the uppermost water-bearing zone, but groundwater recharge was sufficient in the monitoring wells to allow for development and sampling. The thickness of the water-bearing zone is unknown because no boreholes were drilled more than approximately 10 ft below the water table. Monitoring wells and temporary groundwater sampling points were installed at the water table because the maximum concentrations of the fuel-related contaminants of concern at this site are expected to be found at the water table. This contamination may have been dissolved in leachate that would first reach and affect the uppermost part of the shallow water-bearing zone. Alternately, it may have migrated to the water table as free product prior to any of the site investigations, although no free product was found on the water table during the PA/SI and RI field programs. Free-phase fuel products are less dense than water and tend to float after reaching the water table. Therefore, groundwater samples collected at and near the water table are considered appropriate for detecting this type of groundwater contamination.

Surface water features do not exist within the DP-63 area. The closest surface water features proximal to DP-63 are Rita's Draw, approximately one mile to the northwest, and Dillard Draw located directly east of the site and within one-half mile. DP-63 is relatively flat and slopes toward the east. There are no culverts emanating from the site that flow directly into any of the draws in the vicinity.

3.5 CURRENT AND FUTURE LAND USE

The land surrounding Holloman AFB consists of residential areas to the east and northeast (city of Alamogordo), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. There is limited development of the desert terrain in the area immediately surrounding Holloman AFB, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the Base. Holloman AFB is an active military installation and is expected to remain active in the foreseeable future. No transfer of military property to the public is anticipated, and public access to the Base is restricted.

Residential development on the Base is limited by environmental and operational constraints imposed by the 100-year floodplain, historic sites, and areas identified under the Installation Restoration Program. Safety and noise zones also limit residential development on Holloman AFB. Future plans for residential development on the Base include renovation of existing structures, replacement of inefficient buildings, and expansion into open areas in the southeast corner of the Base (Holloman 1987). Future land use is not expected to differ significantly from current land use.

3.6 CURRENT AND FUTURE WATER USE

At present, the primary fresh water resource for the city of Alamogordo and Holloman AFB is Lake Bonita, 60 miles northeast of the Tularosa Basin. Currently, there are no potable supplies of groundwater or surface water located on the Base. Holloman AFB obtains its water supply from the city of Alamogordo and the Holloman AFB wells in the Boles, San Andres, and Douglas well fields at the base of the Sacramento Mountains. No water supply wells are located on or near the Base because of poor groundwater quality. The nearest production well downgradient from Holloman AFB is a livestock well located 3.5 miles west of the Base (Foster Wheeler Environmental and Radian 1994). There are no potable or irrigation wells near to or downgradient of the Base

4.0 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Holloman AFB is conducting the RI of DP-63 under the Environmental Restoration Program in accordance with the general requirements of CERCLA and the National Contingency Plan. As part of this RI, Applicable or Relevant and Appropriate Requirements (ARARs) are identified to support decision-making related to the need for further action at the site. These ARARs include the following requirements and screening levels for the chemical analytes detected at DP-63:

- The action level established by the NMED-Hazardous Waste Bureau (HWB) for TPH. This action level was established in draft guidance from NMED (NMED 2002.
- Chemical-specific risk-based soil-screening levels (SSLs) from NMED for residential exposure (NMED 2000c).
- NMWQCC regulations regarding the applicability of water quality standards to high-TDS groundwater such as that found at Holloman AFB and in the Tularosa Basin in general.

4.1 CORRECTIVE ACTION REQUIREMENTS

The NMED-HWB developed chemical-specific risk-based SSLs for soil for use in determining the risk to human receptors based on direct and indirect exposure to soil and groundwater contamination. The SSLs are used as a screening tool to determine whether corrective action is required at a site to mitigate potential risks. NMED has also developed guidance for assessing the risk to ecological receptors. The evaluation of ecological risk is dependent on understanding the wildlife habitat of the site as well as trophic-level species present in an area that might be impacted by surface and near-surface contamination (to a depth of 5 ft). Based on the results of human health and ecological risk assessments, the need for corrective action and the appropriate cleanup goals will be determined. NMED has previously indicated that site-specific conditions, exposure pathways, and future uses of the property may also be taken into account in determining appropriate cleanup goals using site-specific risk assessments.

For remediation of spills and releases of petroleum hydrocarbons and other regulated substances, the NMED-HWB has established specific investigation and corrective action requirements. NMED-HWB has provided draft guidance to Holloman AFB establishing TPH action levels for soil, and these levels are specific to the type of fuel released at a site.

NMED does not require remediation of existing contamination in unprotected groundwater, unless a situation occurs in which a human or ecological receptor would be exposed to unacceptable risk from

contact with the contaminated water. Previously NMED agreed, in cases where the TDS content renders the water nonpotable (greater than 10,000 mg/L), that direct ingestion of the water by humans was not a plausible exposure scenario. However, additional or continued contamination of groundwater is not acceptable to NMED. To implement the policy, existing soil and groundwater contaminant plumes must be adequately characterized.

Where appropriate, NMED uses existing groundwater quality standards contained in the NMWQCC regulations, *Water Quality Standards*, Part III. However, these standards were established for the purpose of controlling discharges onto or below the surface of the ground to protect all groundwater of the state of New Mexico (which has an existing TDS concentration of 10,000 mg/L or less) for present and potential future use as domestic and agricultural water supply. These standards are also designed to protect those segments of surface waters that are increasing because of groundwater inflow for uses designated in the New Mexico Water Quality Standards. Groundwater below DP-63 and in the vicinity of Holloman AFB, like most of the groundwater throughout the Tularosa Basin, is nonpotable and exceeds 10,000 mg/L of TDS as described in Section 3.4. Therefore, the NMWQCC Regulations, *Water Quality Standards*, Part III are not applicable.

If water quality standards have not been established for detected constituents, the water quality standards developed pursuant to 20 New Mexico Administrative Code (NMAC) 5.13.1318 must be met. In this situation, the regulations require the owner, operator, and NMED to determine the water quality standards to be attained for the release in question. These standards must be adequate to protect human health, public welfare, and the environment. In designating a water quality standard pursuant to this section, NMED may consider any standards the federal government or other states have developed for that substance.

4.2 CONCLUSIONS

The munitions and ordnance burning operations at DP-63 have only minimally impacted the site; therefore, chemical-specific risk-based SSLs and action levels for TPH are relevant and appropriate for determining the relevance of further action at DP-63.

5.0 NATURE AND EXTENT OF CONTAMINATION

An evaluation of the nature and extent of contamination at the East, West, and North areas is based on results of the PA/SI (Foster Wheeler Environmental, 2001), field observations, and recent analytical results for soil and groundwater sampling from the RI. A summary of the sample results is presented below for the following media:

- Soil sampled during the PA/SI and RI
- Groundwater collected at DPT locations (PA/SI) and from monitoring wells (RI)

Tables 5-1 and 5-4 present a summary of soil and groundwater results for the PA/SI, and Tables 5-2 and 5-5 present a summary of soil and groundwater sample results for the RI. Table 5-3 summarizes the lithology and soil metals results by exceeding background area for the RI.

The analytical data were validated according to the EPA's Contract Laboratory Program National Functional Guidelines for Inorganic and Organic Data Review (EPA 1994a, 1994b). The results of the data validation effort are presented in Appendix A. None of the data were rejected based on the results of the validation. All data were validated as usable for the purposes of characterizing the nature and extent of contamination and assessing human-health and ecological risk as part of this RI.

5.1 FIELD OBSERVATIONS

The presence of metallic shards, shell casings, berms and disturbed ground was consistent with descriptions presented in the PA/SI.

No free product or sheen was observed in samples or cuttings from any of the DP-63 boring or drilling locations (Figure 2-1). Staining was noted on boring log forms (Appendix B) and its presence is summarized here. Minor amounts of black (organic) material or staining were noted in four borings: black "spots" were noted at DP06 at approximately 15 ft bgs, black lenses of organic material less than 5 millimeters (mm) thick were noted at DP08 at approximately 48.5 ft bgs, black organic patches ("flecks" or "spots") were noted at approximately 9 ft bgs at DP-13 and at approximately 19 ft bgs and 37 ft bgs at DP14, and black patches less than 2 mm in diameter were noted at 19 ft bgs at DP17. Rust-colored oxidation patches were common at depth in samples throughout the area. These examples of staining could all be the result of naturally occurring organic material and localized oxidizing conditions.

None of the samples or cuttings at DP-63 had a distinctive odor that would indicate contamination. Headspace photoionization detector/flame ionization detector (PID/FID) readings were taken multiple

times (at 3- to 10-ft intervals) at each DPT location. Headspace, breathing zone, and cutting readings were also taken during auger drilling operations. PID/FID readings are presented in Appendix B. Headspace PID/FID readings ranged from background to a maximum of 15.4 parts per million above background between 37 and 38 ft bgs at DP13.

5.2 SOIL ANALYTICAL RESULTS

Analytical data for soil samples collected during the RI in July 2002 were evaluated in a manner consistent with previous investigations at Holloman AFB. Comparative baseline values are used to determine whether organic and inorganic constituents present in soil and groundwater at DP-63 present any potential risks and to support recommendations for the future status of the site. Comparative values appropriate for this evaluation include the following:

- Basewide background values for metals in soil
- Literature background values for metals in soil and surface materials
- Action levels for TPH in soil based on guidance from NMED
- Risk-based SSLs for organic and inorganic compounds in soil

In order to evaluate and assess detected analytes that occur naturally in soil (i.e., metals), comparisons were made against Holloman AFB Basewide background values (Radian Corporation 1993a) and literature background values available for the western U.S. (Shacklette and Boerngen 1984). These values are shown in Table 5-2. The Basewide background value for each metals constituent was determined at the 95 percent upper tolerance limit for data collected in areas at the Base that have not been impacted by site activities.

To assess petroleum contamination, the TPH action level is used. The action level for TPH in soil is 940 milligrams per kilogram (mg/kg) (NMED 2003), and the sum of GRO, ORO, and DRO results for each sample is compared to the action level to determine the need for corrective action.

Background values for organic compounds in soil are considered to be the method detection limit (MDL). Therefore, it is assumed that any detected organic compounds exceed background.

Risk-based SSLs for all analytes are further discussed in the human health and ecological risk assessments in Section 7.0.

5.2.1 PA/SI Soil Sampling Results

Results from soil sampling conducted during the PA/SI in April 2000 are summarized in the PA/SI report for DP-63 and included here. The analytical results for metals samples are presented in Table 5-1 and the Final PA/SI report (Foster Wheeler Environmental 2001). DP01 through DP03 were located in the East Area. DP04 was located in the West Area as shown in Figure 2-1.

Metals were detected in all 12 samples and in the field duplicate sample collected during the PA/SI field investigation. Seventeen metals were detected in soil samples: aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, potassium, magnesium, manganese, nickel, sodium, vanadium, and zinc. Of the 17 metals detected in soil, 14 metals occurred at concentrations above the Basewide background values. Based on evaluation criteria presented in EPA guidance for conducting site inspections (EPA 1992), only six metals (beryllium, cobalt, chromium, copper, manganese, and nickel) detected in soil were at concentrations greater than three times background values. There was no apparent pattern of metals contamination in soil at DP-63, and it is likely that the sporadic occurrence of metals greater than three times background represents natural variability in soil geochemistry.

TRPH was detected in 9 of the 12 soil samples and in the field duplicate sample collected during the PA/SI. Soil concentrations of TRPH ranged from 37.7 to 263 mg/kg, and the highest concentration of TRPH was detected in a sample collected at the water table in the East Area at DP03. It is apparent that TRPH in soil is the result of past activities in the West and East Areas at DP-63.

VOCs were detected in four samples collected in the East Area at DP01 and DP03. The VOCs detected in these soil samples included carbon disulfide, 2-butanone, and toluene (Table 5-1). At DP01, VOCs were only detected in the soil samples (including the field duplicate) collected at the water table, within the capillary fringe. At DP03, VOCs were detected in all samples collected at depths ranging from 12 ft to the water table. The contaminants detected at DP01 and DP03 are most likely due to releases at DP-63 during site activities. The VOCs may be remnants of fuels used during burning operations.

SVOCs were only detected in two samples collected at DP-63 during the PA/SI. Diethylphthalate and bis(2-ethylhexyl)phthalate were the only SVOCs detected in soil samples, which were collected at a depth of 12 ft and at the water table within the capillary fringe (Table 5-1). SVOCs were only detected in samples collected at DP03 and are likely present due to burning activities at the site.

No pesticides or polychlorinated biphenyls were detected in any soil samples collected at DP-63 during the PA/SI field investigation.

Cyanide was only detected in one soil sample collected at DP-63, from DP03 at a depth of 21 ft bgs.

5.2.2 RI Soil Sampling Results

During the RI, soil samples were analyzed for VOCs, SVOCs, TAL metals, explosives, TPH, and cyanide. Sampling locations are shown in Figure 2-1, data presented in Appendix A, and summarized in Table 5-2. The analytical results are discussed below.

Metals

In general, metals are naturally occurring soil constituents; they were detected in all samples collected. All metals analyzed for were detected. Seventeen metals were detected in at least one sample above their respective Basewide background values: aluminum, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium and zinc. All of the soil samples that exceeded Basewide background concentrations were collected from either the surface (0 ft to 0.5 ft) or from two relatively deep depth horizons: 19 to 27 ft and 39 to 48 ft. No exceedences were reported for the shallow 4 to 5 ft or 9 to 10 ft depth horizons.

The distinguishing feature between the shallow and deep depth horizons was lithology. As shown in Table 5-3, the shallow horizons are dominated by sand and the deep horizons by clay. Aluminum, a major clay-forming element, increases from a mean of 2,849 mg/kg and standard deviation of 1,192 mg/kg for the surface and shallow depth horizons to a mean of 11,835 mg/kg and standard deviation of 6,869 mg/kg in the deeper, clay-rich, depth horizons. One way to understand the effect of increasing clay content on concentration of other metals is to calculate correlation coefficients to indicate the degree to which the elements analyzed vary with aluminum contents. A positive correlation indicates that as aluminum increases, so does the element in question, and a negative correlation indicates that as aluminum decreases, the element in question decreases. Aluminum contents are positively correlated (correlation coefficient of 0.80 or greater) with barium, chromium, cobalt, iron, magnesium, manganese, potassium, thallium, and vanadium for the entire suite of samples. For only the deeper horizons, aluminum contents were positively correlated (correlation coefficient of 0.75 or greater) with barium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc. Calcium (a major element in carbonate sediments and gypsum, but not clays) was negatively correlated (correlation coefficient of –0.24) with aluminum. These results suggest that as clay content increases, most metals concentrations will increase, either because these elements were incorporated into the clay structures or as a result of the formation of metal oxides the absorption of metallic ions onto the surface of the clay minerals and adjoining particles. If samples used to calculate Basewide background concentrations of these elements were significantly lower in clay content than the DP-63 samples, exceedances in most

metals for DP-63 samples would be expected. The variation observed in samples from the deep zones could reflect natural variation as a function of the clay lithology.

Background exceedances for surface soil samples are grouped by area in Table 5-3. In the East Area, barium, copper, lead, sodium, and zinc exceeded background concentrations. In the West Area, calcium, copper, lead, nickel, and zinc exceeded background concentrations. In the North Area, barium, calcium, copper, and zinc exceeded background concentrations. Of these exceedances, copper, nickel, lead, and zinc would most likely reflect affects from metallic ordnance disposal while sodium, calcium, and barium exceedances are most likely a result of naturally high concentrations of these elements in the arid, caliche-containing surface soils.

When metals concentrations for both subsurface and surface samples are compared with the range found to occur naturally in soil in the western U.S. as shown in Table 5-3, there are only two samples with analyte exceedances: 0 to 0.5 ft at DP13 (West Area) for copper (1,330 mg/kg) 0 to 0.5 ft at DP07 for lead (759 mg/kg). These elevated concentrations likely represents particles of shrapnel in the soil sample as a result of past disposal operations, or leaching from the metal debris present on the surface within the study area.

TPH

Petroleum hydrocarbons were detected in 10 of the 67 soil samples collected during the RI in all three study areas (East, West and North) representing surface soil and subsurface soil to depths of 21 ft. Soil concentrations of the TPH as GRO, ORO, and DRO ranged from 0.068 to 390 mg/kg. There were no exceedances of the TPH action level (940 mg/kg) in any of the soil samples analyzed for the RI. The highest concentration in the East Area was 0.16 mg/kg for GRO at 0 to 0.5 ft bgs at DP06. The highest concentration in the West Area of 530 mg/kg (140 mg/kg for GRO and 390 mg/kg for DRO) was detected at a depth of 20 to 21 ft bgs. The highest concentration in the North Area at 7.6 mg/kg (7.5 B mg/kg for DRO and 0.076 mg/kg for GRO) was detected at the surface (0 to 0.5 ft bgs) at DP19.

VOCs

VOC detections are summarized in Table 5-2. Methylene chloride was detected in surface soil samples from three locations at the East Area: DP07 (3.8 μg/kg), DP08 (2.8 μg/kg) and DP09 (2.5 μg/kg). All detected values were reported with "B" qualifiers, indicating that the analyte was also detected in the laboratory method blank. Methylene chloride is a common laboratory solvent used for sample extractions.

SVOCs

Two SVOCs were detected in the DPT soil samples.

Bis(2-ethylhexyl)phthalate and diethylphthalate were detected in eight soil samples collected from the East, West and North areas. The bis(2-ethylhexyl)phthalate detection occurred in the laboratory method blank, which suggests laboratory contamination. Detections of diethylphthalate may be result of field sampling cross-contamination through the use of disposable sampling scoops and acetate sleeves. The most likely contamination source for non-surface soil samples would be the semi-transparent acetate sleeves that contained the DPT soil samples. These sleeves were opened with stainless steel blades, and the soil in the sleeve was then scooped into sample jars.

Explosives

Explosives were not detected in any of the surface or subsurface soil samples collected during the RI.

Cyanide

Two soil samples had detectable levels of cyanide: DP08 at 24 to 25 ft bgs (0.199 B mg/kg), and DP09 at 4 to 5 ft bgs (0.266 B mg/kg).

5.3 GROUNDWATER ANALYTICAL RESULTS

Analytical data for groundwater samples collected during the RI in September 2002 were evaluated in a manner consistent with previous investigations at Holloman AFB. Groundwater quality was evaluated by comparing the concentrations of detected constituents (TAL metals, VOCs and TDS) with water quality standards from the New Mexico Water Quality Control Commission (NMWQCC) (20.6.2 NMAC). Where standards were not available, the concentrations of detected analytes were compared with concentrations in the site upgradient well (MW01).

5.3.1 PA/SI Groundwater Sampling Results

Four groundwater samples and one field duplicate sample were collected during the PA/SI field program and were analyzed for explosives using EPA Method 8330. Explosives were not detected in any of the groundwater samples collected during the PA/SI (Foster Wheeler Environmental 2001).

Free-phase fuel product was not observed in groundwater samples collected during the PA/SI.

5.3.2 RI Groundwater Sampling Results

Five groundwater samples and one field duplicate sample were collected from newly installed groundwater monitoring wells (MW01, MW02, MW03, MW04, and MW05) during the RI field program. As shown in Figure 2-1, MW01 is the upgradient well for the site, MW02 is collocated with DP15 in the North Area, MW03 is the downgradient well for the North Area, MW04 is collocated with DP07 in the East Area, and MW05 is the downgradient well for the East Area. Samples were analyzed for VOCs,

SVOCs, explosives, TAL metals, and TDS. No SVOCs or explosives were detected in any of the samples. Analytical results for RI groundwater samples are shown in Table 5-5. Groundwater quality standards published by the NMWQCC are included in Table 5-5 for comparison.

Free-phase fuel product was not observed in any of the monitoring well samples collected during the RI field program.

Metals and TDS

Of the metals analyzed in groundwater samples from DP-63, only the standards for iron and manganese were exceeded. Iron concentrations ranged from 1 to 2.5 times the standard (1.0 mg/L). The lowest iron concentration was at the East Area downgradient well (MW05). The highest iron concentration exceeding the standard was at the East Area well, MW04 (collocated with boring DP07). Manganese concentrations ranged from 3 to 11 times the NMWQCC standard (0.2 mg/L). The lowest concentration was detected in the upgradient well MW01 and the highest concentration was detected in the North Area well MW02.

TDS ranged from 17,600 to 22,800 mg/L. The upgradient well, which represents background conditions for the site, had a value of 20,400 mg/L. All of these values exceeded the NMWQCC standard of 1,000 mg/L. TDS also exceed the limit of 10,000 mg/L used to determine groundwater potability. Because TDS exceeds 10,000 mg/L, the NMWQCC standards do not apply to groundwater beneath DP-63.

The elevated concentrations of metals in groundwater are most likely due to the saline conditions of the upper water-bearing zone and the high turbidity associated with a saturated zone that is composed primarily of fine sand and sandy silts with some clay.

VOCs

Detections of VOCs were reported for acetone, benzene, carbon disulfide, chloroform, ethylbenzene, and xylenes. Of the VOCs analyzed in groundwater samples collected from all wells, only benzene detected in well MW02 exceeded the NMWQCC standard. The VOCs detected in groundwater are likely due to past disposal activities at the Ammunition Storage Facility. VOCs were detected in the upgradient well (MW01) sampled in September 2002; and this well was resampled in January 2003 to confirm the presence of VOCs in groundwater upgradient of the site. In January 2003, no VOCs were detected in well MW01 therefore the presence of contaminated upgradient groundwater could not be substantiated (Table 5-4).

Explosives

Explosives were not detected in any of the groundwater samples collected during the RI.

5.4 SUMMARY OF THE NATURE AND EXTENT OF CONTAMINATION

Surface observations and geophysical survey data show that metallic debris occurs on the surface and subsurface of the North, East, and West areas. Based on the results from the PA/SI, the following investigations were conducted as part of the RI: soil samples were collected at the surface and at depth in the North, West, and East areas and analyzed for VOCs, SVOCs, TAL metals, TPH, explosives, and cyanide; and groundwater samples were collected from five monitoring wells and analyzed for VOCs, SVOCs, TAL metals, explosives, and TDS. Major results of the investigations are as follows:

- Chemicals of potential concern (COPCs) identified during the RI include metals, VOCs, SVOCs, and TPH.
- Field observations (lack of sheen or free product, low PID/FID readings, minor amounts of organic material, and oxidation patches) do not suggest high levels of subsurface contamination in any of the three areas.
- Explosives were not detected in soil or groundwater during any DP-63 investigations.
- There is no obvious pattern for correlating detected levels of organic analytes in soil. Metals detected in soil show strong correlation to lithology type and do not indicate contamination. TPH contamination in soil does not appear to be concentrated at the capillary fringe in RI samples.
- There is a lateral pattern of VOC and metal detections in groundwater in the North Area that is suggestive of contaminant migration downgradient of the disposal site.

5.4.1 Soil

Metals in soil samples were elevated in comparison to Basewide background values, and appear to vary as a function of lithology as well as depth. Copper, lead, nickel and zinc detected in surface soil samples are most likely a function of surface contamination from munitions disposal. Casing debris is visible at all three sites, yet only one detection each of copper and lead in surface soil samples at DP13 (West Area) and DP07 (East Area), respectively, exceeded the upper range of regional background from published literature for surface materials in the western U.S. (by a factor of 4.4). Metals concentrations exceeding background values in clay-rich layers and elevated concentrations of sodium, barium, and calcium at the surface in caliche-containing soils are more likely a function of lithology than of contamination.

The only VOC detected in soils during the RI was methylene chloride. Three detections of methylene chloride were reported in surface soil in the East Area. Methylene chloride was also detected in the laboratory blank, suggesting laboratory contamination. During the PA/SI, soil samples from the East Area contained detectable concentrations of carbon disulfide, 2-butanone and toluene.

Only two SVOCs, bis(2-ethylhexyl)phthalate and diethylphthalate, were detected in soil. These compounds were also the only SVOCs detected in PA/SI soil samples. The presence of these compounds in soil samples collected during the PA/SI and RI is probably attributable to laboratory and/or field sampling cross-contamination, respectively.

Petroleum hydrocarbons were detected in soil samples as ORO, GRO, and DRO from 0 ft to 27 ft bgs. Detections ranged from 0.068 mg/kg for GRO at 4 to 5 ft bgs in DP05 (East Area) to 390 mg/kg for DRO at 20 ft to 21 bgs in DP12 (West Area). GRO and DRO were also detected in the corresponding laboratory blanks. Unlike the PA/SI results, during the RI there were no detections of petroleum hydrocarbons in RI samples collected at the capillary fringe in any of the three areas.

Cyanide was detected in two subsurface soil samples in the East Area, and this is consistent with the results from the PA/SI during which cyanide was detected in one soil sample from the East Area at a depth of 21 ft bgs.

5.4.2 Groundwater

Iron and manganese detected during the RI in groundwater exceeded their respective NMWQCC standards. Concentrations of TDS exceeded the NMWQCC of 1,000 mg/L in all five groundwater monitoring wells. This is consistent with Basewide background concentrations, and PA/SI analyses. Elevated TDS is a function of the natural concentration of gypsum and other highly soluble minerals present in the natural sediments of the Tularosa Basin. The groundwater beneath the Base is Class IIIB, and can be considered a potential source of drinking water, but is precluded from the NMWQCC regulations because TDS exceeds 10,000 mg/L.

VOCs detected in groundwater included acetone, benzene, carbon disulfide, chloroform, ethylbenzene and xylenes. Groundwater from well MW02 contained the highest concentrations of all detected VOCs in samples, up to four times the concentration in the site upgradient well. Only benzene detected at 15 μg/L in the sample collected from MW02 exceeded the NMWQCC standard.

6.0 CONTAMINANT FATE AND TRANSPORT

The fate and transport characteristics of the primary constituents identified during the RI as COPCs in the HHRA and COPECs in the SLERA for DP-63 (Section 5.0) are described in this section. These constituents include metals, VOCs, SVOCs, and cyanide in all soil and groundwater samples collected at the site. This section describes the factors controlling the environmental fate and transport of contaminants in soil and groundwater at DP-63 and evaluates the potential for further migration of these compounds. This information will be used to assess the potential risk of current and future exposures.

6.1 POTENTIAL MIGRATION PATHWAYS

As described in Section 5.0, past burning operations at DP-63 resulted in varying degrees of soil and groundwater contamination. The sample results presented in Section 5.0 indicated that only minor amounts of contamination remain in surface and subsurface soil at this site.

Contaminants were found at concentrations well below the TPH action level and SSLs in surface soil (0 to 0.5 ft bgs) and they may be mobilized and transported by wind erosion, volatilization, or episodic overland flow. Contaminants in surface soil may also migrate to subsurface soil (and groundwater) via desorption and leaching processes. VOCs in surface soil can migrate into soil vapor or they can volatilize directly to the atmosphere.

If mobilized by surface water runoff, contaminants may eventually reenter the subsurface environment by infiltration, contaminating subsurface soil and possibly groundwater if present in sufficient concentrations. In the process of infiltration, organic contaminants may also remain adsorbed to soil particles where attenuation by photolysis (in surface soil) or biodegradation may occur. Contaminants in surface soil or sediment could also biomagnify if ingested by plants or animals. Transport by surface water to a standing body of water is also possible, although this is not a concern at DP-63. Contaminants mobilized as fugitive dust can be redeposited onto surface soil and surface water or dispersed in local air masses.

Contaminants present in subsurface soil can be released to soil vapor and eventually reach the atmosphere or can migrate to groundwater through desorption and leaching. Volatile contaminants that migrate to the atmosphere are subject to dispersal by local air masses and attenuation by photolysis and oxidation reactions. Redeposition from the atmosphere to surface soil or surface water bodies may also occur. Contaminants that remain in the soil may be subject to attenuation by chemical and biological degradation processes.

6.2 CONTAMINANT CHARACTERISTICS AND BEHAVIOR

Contaminants in soil and groundwater identified in the RI at DP-63 (Section 5.0) include VOCs, SVOCs, TAL metals, cyanide in soil, and petroleum hydrocarbons in soil. The properties of each contaminant with respect to its potential behavior in soil and groundwater are discussed in this section.

The chemical and physical properties of each analyte detected in soil and groundwater during the PA/SI and RI are compiled in Table 6-1. These properties can be used to predict various fate and transport parameters, such as the potential of an analyte to partition between the solid, liquid, and gas phases. For example, partitioning of a particular VOC between water, air, and soil can be estimated using the VOC aqueous solubility value (water), Henry's Law constant (water-air), vapor pressure (air), and organic carbon partition coefficient (K_{oc}), which can be estimated by measuring its octanol-water partition coefficient (K_{ow}) (soil).

The aqueous solubility value gives the maximum amount (mass) of a chemical that is soluble within a given volume of water. In general, compounds with solubility values less than 1 mg/L are considered insoluble in water, and compounds with values greater than 10,000 mg/L are considered highly soluble.

The vapor pressure of a chemical is a measure of the chemical's tendency to volatilize. Vapor pressures greater than 1 millimeter of mercury (mm Hg) indicate volatility. Chemicals with vapor pressures ranging from 1 to 0.001 mm Hg are considered semivolatile, and those with vapor pressures less than 0.001 mm Hg are considered nonvolatile. It should be noted that the classification of volatility by vapor pressure does not necessarily correspond to the laboratory classification of compounds as either volatile or semivolatile (base-neutral-acid extractable) analytes.

The Henry's Law constant for a compound provides a measure of the tendency of that compound to volatilize from an aqueous solution. For VOCs, higher values of Henry's Law constant are associated with an increased volatilization from water. Chemicals that are readily volatilized from groundwater or surface water have constants exceeding 10^{-3} atmosphere-cubic meters per mole (atm-m^3/mol), whereas compounds with low volatility have constants less than 10^{-7} atm-m^3/mol.

The most common measure of an organic contaminant's tendency to adsorb to organic carbon in soil is the K_{ow}, which is expressed as the logarithm of K_{ow} (Log[K_{ow}]) which defines the potential for a compound to partition into octanol in an octanol-water system. Since octanol is considered to represent the sorptive properties of soil organic matter, the K_{ow} can provide an estimate of the tendency for a chemical to sorb to soil organic matter. The greater the value of K_{ow}, generally expressed as the base 10

logarithm K_{ow} (Log[K_{ow}]), the greater the tendency for adsorption. Compounds with Log(K_{ow}) values greater than 3 are preferentially sorbed onto the soil in soil-water systems. Compounds with Log(K_{ow}) values less than 1 are considered to partition weakly onto soil, and values between 1 and 3 denote moderate affinity for soil. Actual partitioning of VOCs onto soil depends on the organic carbon content of the soil. At DP-63, it is assumed that the absence of vegetation implies a low organic matter content in the soil (such as humic material).

6.2.1 Volatile Organic Compounds

With reference to Table 6-1 and the discussion above, the VOCs detected at DP-63 are volatile, sorb moderately to soil organic carbon, and range in solubility from insoluble to moderately soluble. Their high vapor pressures and moderate-to-high Henry's Law constant values indicate a moderate-to-low affinity for water. The moderate Log(K_{ow}) values indicate that partitioning of these compounds onto soil organic carbon would retard the migration of the compounds if soil organic matter were present. However, because DP-63 soil has low concentrations of organic carbon, these contaminants are expected to migrate more readily.

With regard to degradation, VOCs in subsurface soil are typically not subject to hydrolytic reactions; however, nonhalogenated VOCs and, to a lesser extent, halogenated VOCs can be degraded biologically under both aerobic and anaerobic conditions as discussed below.

6.2.2 SVOCs and Petroleum Hydrocarbons

Analyses for SVOCs and petroleum hydrocarbons were conducted during the PA/SI and RI using EPA Method 8270C and two separate EPA methods for TPH (PA/SI–418.1 and RI–8015B Modified). Between the two TPH methods a variety of petroleum hydrocarbons with up to 44 carbon atoms can be detected. Petroleum hydrocarbons can be branched and unbranched aliphatic compounds (straight-chained), or aromatic compounds (containing benzene-based ring structures). SVOCs and petroleum hydrocarbons generally have low solubility and have strong affinities for soil; they are, therefore, relatively immobile in soil-water systems. They also have relatively low vapor pressures to biodegradation and oxidation; however, the rate of degradation is dependent upon microbial population dynamics and the structural characteristics of the target molecules (such as the degree of branching).

6.2.3 Metals

Metals released to soil-water environments are subject to various chemical reactions that control their form and mobility. These consist of dissolution-precipitation reactions, adsorption reactions, and oxidation-reduction ("redox") reactions. The type, magnitude, and influence of each reaction on a

particular metal is controlled by a combination of solution chemistry and pH, reactivity and grain size of soil/aquifer solid phases, alkalinity, and oxidation potential of the environmental media. The Eh of a system is its capacity to oxidize or reduce a multivalent ion such as arsenic or selenium. In general, unsaturated soil environments oxidize because oxygen is present in the soil profile. On the other hand, groundwater systems typically oxidize in zones of recharge and reduce progressively along the flow path as oxygen is consumed by chemical and biological reactions.

Metals fate and transport is also determined by the type of ion formed in solution. Metals such as barium, cadmium, lead, and mercury form positively charged cations, whereas arsenic, chromium, and selenium form anions. In general, cations are soluble only at acidic pHs, whereas anions may be soluble across the entire pH range. Solubility controls on dissolved species include precipitation to a solid phase and adsorption by clays, carbonate minerals, and iron- and manganese-oxyhydroxides.

As discussed in Section 5.0, Nature and Extent of Contamination, elevated concentrations of various metals occur in both surface and subsurface soils and groundwater. Primary metals of concern in soils include barium, cadmium, copper, lead, nickel, and zinc. Elevated metal concentrations in surface and near-surface soil may represent sites where metallic debris remains after munitions disposal. Metal concentrations in deeper soil (greater than 20 ft) indicated no clear pattern of contamination, but they may be attributable to natural conditions.

The fate and transport of these species in groundwater is dependent upon their physical and chemical properties and upon the chemical and physical interactions between the metal and the groundwater aquifer media and sediment during migration. None of the metals identified as COPCs in soil occur at elevated levels in groundwater that exceed groundwater standards. The metals present in groundwater are most likely naturally-occurring due to the saline conditions of the upper water-bearing zone and the high turbidity associated with a saturated zone composed primarily of fine sand and sandy silts with some clay.

6.2.4 Cyanide

In water and air, cyanide predominantly exists as hydrogen cyanide, while in soil metallo-cyanide complexes are more prevalent. Cyanide is an anion (CN^-) and is found in metallo-cyanide complexes with metals within the transition series. For example, cyanide and iron react to form ferrocyanide and ferricyanide. Solutions containing iron-cyanide complexes can form hydrogen cyanide when exposed to light or ultraviolet radiation (photolysis). Natural cyanide compounds, such as cyanogenic glycosides, can also produce hydrogen cyanide when hydrolyzed.

Cyanides are sorbed by many environmental media, including soils and clays, that have low moisture contents similar to soil present at Holloman AFB. Hydrogen cyanide and alkali metal cyanides (sodium, calcium, and potassium) will not sorb onto sediments because these metals have high water solubilities. Soluble metallo-cyanides (copper and potassium-silver) may sorb to soil more strongly than hydrogen cyanide if the pH range decreases and iron oxide, clay and organic material content increases. The mobility of cyanide increases in soil-water systems with an increase in pH, high concentrations of calcium carbonate, and low amounts of clay.

6.3 CONTAMINANT MIGRATION AT DP-63

Site conditions and several of the fate and transport characteristics of the DP-63 contaminants help to explain the distribution of contaminants at the site. VOCs detected mainly in groundwater at DP-63 are moderately soluble and leach readily through site soil, which has a low organic carbon content. VOCs released to soil are expected to have leached to the water table, biodegraded, or volatilized. Therefore, leaching and downward flow to shallow groundwater appear to be the principal contaminant transport mechanisms.

Other contaminant fate and transport processes that may also have operated at DP-63 include the transport and redistribution of petroleum hydrocarbons in surface soil by wind, volatilization of VOCs, and degradation of VOCs in subsurface soil. Migration of petroleum hydrocarbon-related compounds to groundwater by infiltrating precipitation is not indicated by the data as a significant transport mechanism and further groundwater degradation is unlikely to be ongoing because of the minor amounts of contamination found in soil and the low solubility of most associated compounds.

7.0 HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENTS

This section presents the screening-level HHRA and the SLERA prepared for the three areas at DP-63 that were investigated during the RI. The HHRA is presented in Section 7.1. Because the SLERA is complex, Section 7.2 presents a summary of the SLERA and the pertinent information required to draw conclusions regarding ecological risk at the site. Appendix C presents the SLERA in its entirety.

The purpose of the HHRA and SLERA is to evaluate the magnitude and probability of threats to public health and the environment posed by site-related chemicals in untreated soil and groundwater. These human health and ecological risk assessments provide a complete evaluation of risk present at DP-63.

7.1 SCREENING-LEVEL HUMAN HEALTH RISK ASSESSMENT

This section presents the screening-level HHRA prepared for DP-63. The purpose of the HHRA is to evaluate the probability and magnitude of threats to public health posed by site-related constituents in untreated soils (surface and subsurface) and groundwater. Although there are multiple future land use scenarios, NMED recommends that the most conservative scenario, residential land use, is considered in a screening-level HHRA (NMED 2000c). Therefore, only a residential land use scenario is evaluated in this HHRA and discussed in the following sections.

7.1.1 HHRA Objectives

The primary objectives of this screening-level HHRA are to evaluate the analytical results of previously collected soil and groundwater samples, select COPCs, to identify potential exposure pathways and to evaluate potential risks to human health. The HHRA consists of a comparison of site analytical data to NMED Residential SSLs. This HHRA was conducted in accordance with NMED Guidance on Assessing Human Health Risk Posed by Chemicals: Screening-Level Risk Assessment (NMED 2000c). This screening-level HHRA includes an analytical data evaluation, a discussion of the HHRA methodology, and a summary of the findings, uncertainties, and conclusions.

7.1.2 Data Summary and Evaluation

Data from samples collected during the July 2002 sampling event represent the most recent data and thus were evaluated in this HHRA. Fifty surface and subsurface soil samples were collected at 12 ft bgs or less during this period. Soil and groundwater samples were analyzed for VOCs, SVOCs, TAL metals, explosives, and TPH (soil only). Groundwater was also analyzed for TDS.

The selection process for COPCs evaluated the following data characteristics:

- The constituent must have been detected in site soil or groundwater.
- A complete exposure pathway must exist between the potential receptor and the constituent.
- Detected constituents must not be considered essential nutrients (calcium, potassium, sodium, and magnesium).
- Detected constituents must exceed naturally occurring background concentrations (metal) based on the Basewide Background Study (Radian 1993a).

Detected analytes are also screened against SSLs. However, this screening only determines the potential risk associated with exposure to one compound. A cumulative risk was also calculated to take into account the potential exposure to multiple constituents (Section 7.1.7).

7.1.2.1 Summary of Groundwater Analytical Data

Groundwater analytical results indicated a TDS value of greater than 10,000 mg/L. NMED guidance indicates that when groundwater TDS values exceed 1,000 mg/L, groundwater cannot be used for tap water or other human uses, or if values exceed 10,000 mg/L, water cannot be used for irrigation or agriculture (NMAC 20.6.2). Depth to groundwater at this site is in excess of 50 ft bgs. It is therefore unlikely that volatilization to indoor or outdoor air will create a complete exposure pathway. Therefore, groundwater data were not evaluated as part of the HHRA as no complete pathways exist between groundwater and potential receptors (Figure 7-1).

7.1.2.2 Summary of Soil Analytical Data

This HHRA only evaluated soil analytical data from 12 ft bgs or less. This depth was considered a realistic estimate of the soil to which potential receptors may be exposed and was selected as it represents a conservative estimate of complete residential basement depth. Potential exposures at this depth would include construction worker direct exposure to soil and resident exposure through the volatilization of COPCs to indoor air in their basements and direct contact with soil during activities such as gardening. The next sample depth was 19 feet bgs, and was considered an unrealistic or overly conservative depth at which potential receptors may be exposed.

One VOC was detected in soil less than 12 ft bgs. Methylene chloride was detected at a maximum concentration of 0.0038 mg/kg at sample location DP07. There were two SVOCs detected in soil less than

12 feet bgs. Bis(2-ethylhexyl)-phthalate and diethylphthalate were detected with maximum concentrations of 0.4 and 1.6 mg/kg, respectively. Methylene chloride, diethylphthalate, and bis(2-ethylhexyl)-phthalate may be laboratory or field cross-contaminants. Nineteen inorganic compounds (aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, cyanide, iron, lead, magnesium, manganese, nickel, potassium, sodium, thallium, vanadium, and zinc) were detected in soil samples collected at less than 12 feet bgs. All analytical results assessed in this HHRA are presented in Tables 7-1 and 7-2.

Only analytes detected in soil samples from 12 ft bgs or less were evaluated in the COPC determination (Table 7-1). Calcium, magnesium, sodium, and potassium were removed from the COPC list as they are considered essential nutrients. These constituents do not appear on the NMED Residential SSLs Table A-1 (NMED 2000c) and are not considered in state guidance.

7.1.3 Conceptual Site Exposure Model

The exposure setting includes the physical environment, current and potential future land uses at the site and the area of impacted soil and groundwater that have been affected by site activities. Historical information on the site and the site visit (June 2002) provided the information necessary to determine current and potential future land uses of the site. Evaluation of these uses determined the potential receptors and potential exposure pathways assessed in the quantitative HHRA and are presented in the HHRA Conceptual Site Exposure Model (Figure 7-1).

The HHRA conceptual site exposure model is used to identify exposure pathways, which are descriptions of the ways in which receptors may potentially be exposed to constituents at the site. The pathway analysis involves examination of each potential constituent source, constituent transport pathway, and potentially exposed population to determine which combinations represent complete or potentially complete exposure pathways (based upon reasonable yet conservative assumptions about current and future land use). Complete or potentially complete exposure pathways are then considered for further evaluation in the HHRA. As recommended in NMED guidance, only the residential exposure scenario will be evaluated in this screening-level HHRA (NMED 2000c).

Figure 7-1 shows the conceptual site exposure model for the HHRA for area DP-63. Surface and subsurface soil presumably received the initial impact from waste disposal trenches and pits. Potential exposure pathways include potential volatilization of VOCs (methylene chloride) from soil to indoor and outdoor air, resulting in a potentially complete exposure pathway via inhalation. An exposure pathway could also be created by eolian transport of COPCs as dust particles to receptors via particulate inhalation.

Dermal contact with soil and inadvertent ingestion of the soil through such common activities as residential gardening are other potentially complete exposure pathways for soil. Exposure from intrusive activities associated with the construction of basements would provide residential exposure to volatile constituents in subsurface soil. In the future residential scenario, a complete exposure pathway could potentially occur from direct contact with soil, inadvertent ingestion of soil, and volatilization from soil to indoor or outdoor air. Intrusive activities are not planned for DP-63, but future uses have not yet been fully determined. However, for the purposes of this HHRA, these potential activities are evaluated as likely future activities.

As discussed in Section 7.1.2, multiple constituents may be present in site groundwater as the result of leaching from subsurface soil to groundwater. The groundwater at the site is considered unusable as Basewide TDS concentrations are greater than 10,000 mg/L (NMED 2000c). This standard is outlined in NMAC 20.6.2. Therefore, groundwater is not used as a source for tap water or human use (drinking water, irrigation, or agriculture) or for drinking water for livestock. Onsite groundwater does not discharge to any surface water features. Therefore, exposure to constituents through dermal contact with groundwater or ingestion of groundwater will not occur and was not evaluated in this screening-level HHRA. Volatilization of COPCs from groundwater to indoor or outdoor air is not considered a complete exposure pathway because depth to groundwater exceeds 50 ft bgs across the site.

7.1.4 Identification of Potential Receptors

Only the residential land use scenario was evaluated for DP-63, under the assumption the site will be converted into a residential area. As recommended by NMED, when risk-based action levels exist for multiple exposure scenarios, Holloman AFB must use the more conservative exposure scenario (i.e., residential) to initially evaluate risk, regardless of the current or future land use (NMED 2001c). If the risks are acceptable for residents, it is assumed that risks will be acceptable for all other receptors. Holloman AFB is not currently developed for residential use, nor is it anticipated that it will be in the future. However, the residential receptor scenario is assessed because it conservatively takes into account long term daily and lifetime exposure to residents, including sensitive populations such as children, pregnant women, and the elderly.

The construction and industrial worker receptors are potential future receptors in potential future land uses for DP-63 (Figure 7-1). The current and anticipated future land use for DP-63 is an industrial setting. However, NMED guidance indicates that "under a risk-based approach, industrial screening levels cannot be used to evaluate sites for closure" (NMED 2001c). The most conservative receptor—

residential—was evaluated in this HHRA for the purpose of applying for a No Further Action Determination.

7.1.5 Comparison of Site Soil Data to Residential SSLs and Selection of COPCs

SSLs are chemical concentrations in soil that correspond to accepted levels of risk for a given complete exposure pathway. These values are based on an acceptable target cancer risk of 1×10^{-5} (or one in 100,000 chance of developing cancer) and a noncarcinogenic hazard quotient of 1.0 (NMED 2000c). The SSLs are developed under the conservative assumptions that a resident is exposed to site soil for 30 years and 350 days per year and includes ingestion, dermal contact, inhalation of constituents and fugitive dust outdoors and inhalation of indoor air as potential pathways. The SSL calculation is adjusted for exposure to a child (NMED 2000c). Each SSL is based on the type of adverse effect, or endpoint, the analyte has on humans, either a carcinogenic or a noncarcinogenic endpoint. If an analyte has both types of endpoints, then the lower, or more conservative, SSL is used. If site concentrations exceed the Residential SSLs, then it is considered that a potential for unacceptable risk exists for the assessed scenario (analyte, exposure route, and receptor). The analyte is then considered a COPC and it is likely that future assessment will be required to determine the likelihood for unacceptable risk or hazard to the given receptor.

For the purposes of this screening-level HHRA, maximum concentrations of detected metals were screened against background concentrations. Essential nutrients (calcium, potassium, magnesium, and sodium) were not included in this HHRA. Metals with a maximum detection greater than the associated background concentration and all other constituents were then screened against Residential SSLs (NMED 2000c). Analytes with detections greater than the respective Residential SSLs were then considered COPCs. Only lead had a detection greater than the SSL. Comparison of COPCs' screening levels are included as Table 7-2.

7.1.6 Uncertainty Analysis

Risk evaluations have various uncertainties associated with them. In this section, a qualitative discussion of the uncertainties associated with this HHRA is presented. These uncertainties should be considered as the results of this assessment are evaluated.

HHRAs are not intended to estimate actual risks to a receptor from exposure to contaminants in the environment. The HHRA is a means of estimating the probability that an adverse health effect will occur in a receptor. The many conservative assumptions used in HHRAs guard against underestimation of risk. The use of SSLs as screening values is inherently conservative as values were calculated assuming

multiple exposure scenarios for exposure to soil are complete and receptors include both adults and children. It is unlikely that residents would have direct contact (ingestion or dermal exposure) with deeper subsurface soil.

This screening-level HHRA combined site data with assumptions about the individual receptor's exposures to affected media. This assessment conservatively assumed exposure to a single, maximum concentration of the COPC detected in surface and subsurface soil. Individuals would more typically be exposed to a wide range of concentrations, resulting in a lower average exposure. This assessment also conservatively assumed a residential scenario that is not currently planned for this site. These conservative assumptions may result in overestimation of risk and should be considered during the evaluation of the HHRA results.

7.1.7 HHRA Results and Conclusions

This section describes the results of the screening-level HHRA, which can be found in Table 7-2. Detected metals with concentrations greater than background values, constituents not considered essential nutrients, and all detected organic compounds, were compared to Residential SSLs. A ratio of the maximum detection to the SSL was calculated for each analyte whose maximum detection exceeded the SSL.

A noncarcinogenic ratio was calculated for noncarcinogens as the maximum detected concentration divided by the residential SSL. The sum of the noncarcinogenic ratios was calculated to account for exposure to multiple analytes and is presented in Table 7-2. If the noncarcinogenic ratio for a single analyte or the sum of the noncarcinogenic ratios for all noncarcinogenic analytes is greater than 1.0, then unacceptable risk of noncarcinogenic effects may exist and additional assessment may be required. Diethylphthalate, barium, cadmium, copper, cyanide, lead, nickel, and zinc were screened against noncarcinogenic Residential SSLs and a noncarcinogenic ratio calculated. The sum of the noncarcinogenic ratios for all analytes detected at concentrations greater than background was 0.7. This value indicates a hazard quotient less than 1.0 and therefore, low risk associated with the noncarcinogenic constituents at the site.

Cyanide had a mean concentration greater than the maximum detection. This occurs when the detection limits are elevated. Half of the detection limit for nondetected analytes was used in the calculation of the mean. For the purpose of this HHRA, the maximum detected concentration was used to evaluate cyanide.

Only lead had a noncarcinogenic ratio greater than 1.0 (1.9). There were 39 detections of lead in soil. One sample exceeded the Residential SSL of 400 mg/kg (DP07 at 759 mg/kg at a depth of 0.5 feet). The

mean concentration of lead in soil samples was 21.1 mg/kg, well below the Residential SSL for lead. Thirty-eight samples were below the residential SSL. The most susceptible pathway would be an exposure of lead to a residential child through ingestion of soil. These factors should be taken into account when evaluating this HHRA to determine whether further assessment is necessary.

If a detected analyte is a known carcinogen, a carcinogenic risk ratio was calculated as the maximum detected concentration divided by the carcinogenic Residential SSL (Table 7-2). If the carcinogenic risk ratio was greater than 1.0, the potential for an unacceptable risk exists with exposure to that analyte. A total carcinogenic risk ratio was calculated as the sum of the carcinogenic risk ratios of all detected carcinogenic analytes. If this total risk ratio exceeds 1.0, then there is the potential for carcinogenic risk to exceed 1×10^{-5} due to exposure to all detected analytes.

The carcinogens analyzed for this HHRA were bis(2-ethylhexyl)phthalate and methylene chloride. Carcinogenic ratios for these constituents were 8.70×10^{-3} and 4.47×10^{-5}, respectively. The total carcinogenic ratio was calculated as 8.74×10^{-3}. The carcinogenic ratio for both analytes and the total carcinogenic risk are well below the target risk value of 1×10^{-5}. Based on these risk calculations, potential carcinogenic risk does not exist for the residential exposure scenario. Methylene chloride was detected in only 3 of 50 samples, with the maximum concentration 4 orders of magnitude below the Residential SSL (0.0038 mg/kg methylene chloride versus a Residential SSL of 85 mg/kg). Furthermore, the maximum detection of methylene chloride at the site may be an estimated value, as the sample concentration was between the reporting limit and the MDL. Bis(2-ethylhexyl)phthalate was detected in 1 of 47 samples and the concentration for this analyte was estimated between the reporting limit and the MDL value ("J" flag).

7.2 SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT

This section presents a summary of the SLERA completed for DP-63 at Holloman AFB. The entire SLERA is presented in detail in Appendix C of this report. The objective of this SLERA was to evaluate the potential ecological risks posed by chemical contaminants identified at DP-63. This information will be used to develop a basis for risk management decisions for the potential remediation of DP-63. The procedures used to conduct this SLERA are consistent with those presented in *Guidance for Assessing Ecological Risks Posed by Chemicals: Screening-Level Ecological Risk Assessment* (NMED 2000a), *Risk Assessment Handbook Volume II: Environmental Evaluation* (USACE 1996), *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (EPA 1996), and *Guidelines for Ecological Risk Assessment* (EPA 1998). Chemical contamination that is

determined to potentially cause ecological risk may require additional evaluation in a more detailed quantitative assessment.

7.2.1 Problem Formulation

This section establishes potential links between chemicals of potential ecological concern (COPECs) and responses in site-specific receptors by means of a conceptual site exposure model. This section describes the environmental setting at DP-63 and the scope of the SLERA, the site-specific exposure pathways, and the process used to identify the potential biological receptors and assessment endpoints.

7.2.1.1 Site Survey

A survey of the site was conducted on June 12, 2002, to gather information necessary for identifying relevant and complete contaminant–pathway–receptor relationships. The "Checklist for Ecological Assessment/Sampling," adopted from NMED, that was used during the site survey is included in Appendix C, as Attachment 1. Information gathered during the site survey is included in the discussion below.

7.2.1.2 Exposure Setting

Information pertaining to the exposure setting at DP-63 was obtained primarily during the June 2002 site survey and from the Integrated Natural Resources Management Plan (HAFB 2001). In addition, the biologist at Holloman AFB, Dr. Hilde Reiser, was consulted for species identification and presence information as well as general habitat information.

DP-63 lies within a management unit of Holloman AFB that is designated as the Northern Shrublands (HAFB 2001). The native vegetation community in the Northern Shrubland management unit is characterized by open canopies of fourwing saltbush and well-developed understories dominated by alkali sacaton, a robust, densely tufted, long-lived perennial bunchgrass. Honey mesquite becomes an increasingly important component of the fourwing saltbush community near DP-63. Mesquite, cacti, and yucca are occasionally present. There are also extensive grasslands interspersed with the shrubland communities throughout the Northern Shrubland management unit of Holloman AFB.

Three cover types exist at DP-63: unimproved/disturbed shrubland, semi-improved/mowed grassland, and improved areas (i.e., structural development). The unimproved/disturbed shrubland is the only cover type at DP-63 that contains the same general vegetation as the Northern Shrubland management unit. The other cover types do not fit the habitat description of the Northern Shrubland management unit.

Twenty species associated with terrestrial habitats listed as either being federally endangered, threatened, or a candidate species or state endangered species are present at Holloman AFB. None of these species occur at DP-63, and are not expected to, based on habitat type (Reiser 2002).

7.2.1.3 Conceptual Site Exposure Model

A conceptual site exposure model of the receptors expected to be present at the site was developed using information about the life history of those receptors to determine whether complete pathways exist for exposure of these receptors to contamination at the site. A complete exposure pathway is a pathway that has:

- A source and mechanism for contaminant release to the environment
- An environmental transport medium for the contaminant
- A point of receptor contact (i.e., exposure point) with the contaminated media or through the food web
- An exposure route to the receptor.

A complete exposure pathway between a receptor and an impacted environmental medium is necessary for potential ecological risk to occur. The exposure model shows the relationship between the contaminants at the site and the potential ecological receptors. For example, contaminants at DP-63 are released to soil through infiltration. An earthworm is exposed to the contaminants in the soil (biotic uptake). A deer mouse is exposed to the contaminants by eating the earthworm (also biotic uptake). Finally, a red-tailed hawk is exposed to the contaminants by eating the deer mouse.

The habitat at DP-63 is solely terrestrial, so the medium of ecological concern is soil. The conceptual site exposure model for ecological receptors at DP-63 is presented as Figure 7-2. The primary sources for releases at DP-63 are from spills or releases from disposal pits. These leaks and spills would leach from the surface soil to the subsurface soil and could result in releases via biotic uptake or vaporization. Ingestion of soil, plants, or prey are considered the primary routes of exposure for this SLERA. Exposures from direct contact and ingestion of chemicals that have leached from subsurface soil to groundwater and volatilization of groundwater are not complete pathways at DP-63. Groundwater at DP-63 occurs at approximately 50 ft bgs. The ecologically relevant depth, as determined by NMED, is 5 ft bgs (NMED 2000a). The groundwater is well below this depth. In addition, the TDS in the groundwater at the site is greater than 10,000 mg/L, and so is nonpotable and not suitable for livestock watering. The

ingestion of surface water is also expected to be an incomplete pathway because surface water features do not exist at DP-63. Inhalation and dermal absorption are possible routes of exposure, but for this SLERA, they are not assessed because methods are not adequately developed to quantitatively evaluate these pathways. For lower trophic-level species (i.e., terrestrial invertebrates and plants), exposure was considered to be via direct absorption of chemicals in soil by the potential receptor through the dermis or cell wall. All other pathways identified in Figure 7-2 as complete are quantified in this report.

7.2.1.4 Identification and Selection of Assessment Endpoints

Assessment endpoints are components or attributes of an ecosystem that are critical to maintenance of the ecosystem structure and function (NMED 2000a). Assessment endpoints focus the SLERA on components of the ecosystem that may be impacted by contaminants at the site. The assessment endpoints identified for this SLERA include the following: decomposer/detritivore, habitat for wildlife, major food source for consumer species, seed disperser, and regulator of prey species. These endpoints were selected because they represent functions critical to the ecosystem at DP-63, they represent the common animal and plant species at DP-63, and they are susceptible to stress resulting from exposure to contaminants.

7.2.1.5 Identification and Selection of Measurement Receptors

Measurement receptors were identified to evaluate the biological effects of contaminants on the assessment endpoints identified above. The North Area of DP-63, as stated above, is the only area that consists of habitat similar to the Northern Shrubland management unit. For the North Area, the Northern Shrubland management unit habitat was used when selecting measurement receptors. This is because the East and West areas cover types are not large enough to attract receptors other than those associated with the habitats of the surrounding Northern Shrubland management unit. The receptors that would occur in the East and West areas would likely be visitors from habitats from the North Area and Northern Shrubland management unit. Measurement receptors were chosen based primarily on their function within the ecosystem. In addition, in the selection of measurement receptors consideration is given to species sensitivity to the toxicity of contaminants, potential for high levels of exposure to contaminants, the availability of natural history information about the species, social and economic importance of the species, and the relevance of the species to risk management decisions at the site. The listing below is a summary of the measurement receptors selected for analysis in this SLERA, followed by the rationale for their selection.

Community Receptors	
Assessment Endpoint	**Measurement Receptor**
Soil Communities	Terrestrial Plants
Soil Communities	Terrestrial Invertebrates
Measurement Receptors for Guilds	
Assessment Endpoint	**Measurement Receptor**
Herbivorous Mammal	Deer Mouse
Herbivorous Bird	Mourning Dove
Omnivorous Mammal	Least Shrew
Carnivorous Bird	Red-tailed Hawk

7.2.1.5.1 Identification of Measurement Receptors for Communities

The measurement receptors for communities evaluated in this SLERA include terrestrial invertebrates and terrestrial plants. They both represent the soil community assessment endpoint. Terrestrial invertebrates include nematodes, gastropods, oligochaetes, and arthropods. Terrestrial plants include vascular plants, grasses, forbs, and lichens. These communities provide an important food source for many higher trophic-level species. In addition, terrestrial invertebrates, as decomposers and detritivores, play a critical role in nutrient cycling and terrestrial plants provide critical habitat for wildlife.

7.2.1.5.2 Identification of Measurement Receptors for Guilds

Measurement receptors for guilds were chosen for the following class-specific guilds: herbivorous mammal, herbivorous bird, omnivorous mammal, and carnivorous bird. No amphibian/reptilian class-specific guilds were chosen for inclusion in the quantitative portion of the SLERA because toxicity and exposure information is not available.

The deer mouse represents an herbivorous mammal for the evaluation of the assessment endpoints of major prey item and seed disperser. Given the deer mouse's burrowing and dietary habits, there is a high potential for direct and indirect exposure to onsite contamination.

The mourning dove represents an herbivorous bird for the evaluation of the assessment endpoints of seed disperser and major prey item. Because the mourning dove is not a burrowing bird, it is assumed that the dove's exposure to soil would only occur on the surface. The mourning dove is not expected to be exposed to soil deeper than 0.5 foot.

The least shrew represents an omnivorous mammal for the evaluation of the assessment endpoints of prey regulator and prey item. Its diet of invertebrates and its burrowing behavior result in a high potential of direct and indirect exposure to on-site contaminants.

The red-tailed hawk represents a carnivorous bird for the evaluation of the assessment endpoint of prey regulator. Red-tailed hawks have shown sensitivity to many chemicals that disrupt reproduction or egg development. The small mammal portion (i.e., deer mouse) of the hawk's diet is exposed to both surface and subsurface soil, while the small bird component (i.e., mourning dove) is exposed only to surface soil.

This section establishes potential links between COPECs and responses in site-specific receptors by means of a conceptual site exposure model. This section briefly describes the environmental setting at DP-63 and the scope of the SLERA, the site-specific exposure pathways, and the process used to identify the potential biological receptors (assessment endpoints).

7.2.1.6 Contaminants and Exposure Setting

COPECs are those chemicals that can potentially induce an adverse response in one or more ecological receptors. The chemical database used to support the SLERA was obtained from the RI field program conducted in 2002. During earlier events, data were collected at a depth that has not been determined to be ecologically relevant (greater than 5 ft bgs (NMED 2000a). Section 2.0 presents a brief discussion of the data collected during these efforts. Soil is the only medium being evaluated in the SLERA. As stated above, surface water is not present at DP-63 and groundwater does not provide exposure to ecological receptors because it is not released to the surface. This is also reflected in the conceptual site exposure model.

7.2.2 Data Evaluation and Selection of COPECs

7.2.2.1 Data Evaluation

NMED recommends a depth of 5 ft bgs as ecologically relevant (NMED 2000a). Based on this guidance and in order to adequately characterize exposure to ecological receptors, the soil data at each site are categorized into two groups, surface and subsurface. Surface soil is defined as soil collected at depths from 0 ft to 0.5 ft bgs, and subsurface soil is defined as 0.5 ft to 5.0 ft bgs. Seventeen surface soil and 15 subsurface soil samples were collected and analyzed for VOCs, SVOCs, TPH, explosives, TAL metals, and cyanide.

7.2.2.2 Selection of COPECs

This section presents the process, as described by NMED guidance (NMED 2000a), used to identify COPECs and the likely fate and transport mechanisms at DP-63. All chemicals positively identified to be

above the MDL in site soil samples were considered preliminary COPECs (PCOPECs). Because not all chemicals found at a site will have adverse effects on ecological receptors, the list of preliminary COPECs was narrowed via a COPEC selection process. The COPEC selection process includes the following specific steps:

- Gather all data available from the site investigations and determine whether data are ecologically relevant and valid for their intended use.
- Evaluate a PCOPEC detection status.
- Compare inorganic PCOPEC concentrations with naturally occurring background values.
- Evaluate the environmental fate and transport properties of the PCOPECs.
- Develop a COPEC list of chemicals that are likely to be site related and that will be evaluated in the SLERA.

7.2.2.2.1 Comparison to Background Concentrations

A comparison of detected inorganics with site-specific background concentrations was made to identify naturally occurring chemicals not related to human activities at the sites (NMED 2000b). In other words, this comparison was conducted to identify inorganic chemical concentrations that may be found naturally at or near the site. For the comparisons, the maximum detected value in the site investigation data set was compared to the upper tolerance limit value in the site-specific background data presented in the Basewide Background Study (Radian 1993a). In accordance with NMED guidance (2000b), those PCOPECs present onsite at, or below, naturally occurring levels were eliminated from the quantitative risk assessment. PCOPECs detected at concentrations that exceeded naturally occurring levels were retained as COPECs. The following inorganic analytes were not retained as COPECs because they are considered essential nutrients: calcium, magnesium, potassium, and sodium. These essential nutrients are not anticipated to pose adverse effects to ecological health.

Barium, cadmium, copper, lead, nickel, and zinc were all detected at concentrations in surface soil greater than background concentrations and, therefore, quantitatively evaluated in the SLERA. Because background concentrations are not available for organic compounds, all of the detected organic compounds were retained as COPECs. The analytes considered COPECs in surface soil are bis(2-ethylhexyl) phthalate, diethylphthalate, methylene chloride, barium, cadmium, copper, lead, nickel, and

zinc. None of the metals detected in subsurface soil exceeded background concentrations. Subsurface soil COPECs are diethylphthalate and cyanide.

7.2.2.2.2 COPEC Concentrations at Point of Potential Exposure

The COPEC concentration used to represent the environmental concentration for this SLERA is the maximum measured COPEC concentration at DP-63.

7.2.3 Exposure Assessment

Exposure of ecological receptors to COPECs present at the sites is evaluated through consideration of exposure pathways. Ingestion of soil, plants, and prey is considered the primary route of exposure for this SLERA. The summation of this potential exposure to a measurement receptor quantifies the exposure of that measurement receptor to a COPEC. Exposure assessments are conducted separately for each community measurement receptor and each class-specific guild measurement receptor. The full methodology for this portion of the SLERA is presented in detail in Section C.2.3 of Appendix C of this report.

7.2.4 Effects Assessment

The toxicity of a COPEC is assessed by identifying toxicity reference values (TRVs) specific to a COPEC and to the measurement receptor being evaluated. The TRV is the dose for a measurement receptor that is likely to be without appreciable risk of deleterious effects from chronic exposure. TRVs are therefore developed based on a no observable adverse effects level (NOAEL) for a particular COPEC. NOAELs are derived experimentally or estimated by applying uncertainty factors to available toxicity data. The chronic NOAEL is used as the toxicity value endpoint to determine the TRV in this SLERA to protect against chronic effects.

TRVs used in this SLERA were primarily adopted from NMED guidance (NMED, 2000a). For those COPECs and receptors for which NMED did not present a TRV, toxicity values were adopted from Efroymson et al. 1997a, b and Sample et al. 1996.

7.2.5 Risk Characterization

This section integrates the exposure assessment and the effects assessment from the previous sections to produce an estimate of risk in the form of ecological screening quotients (ESQs) for a single chemical or cumulative ecological screening quotients (CESQs) for multiple chemicals. These ESQs and CESQs are receptor specific, media specific, and COPEC specific.

An ESQ is equal to the COPEC estimated exposure level (EEL) divided by the TRV. For community receptors, the EEL is equal to the concentration of the COPEC in soil. For guild measurement receptors, the EEL is equal to the daily dose of COPEC ingested per unit body weight. The methodology for the calculation of EELs for guild measurement receptors is presented in Section C.2.3 in Appendix C of this report. For both community and guild receptors, the ESQ is defined by the equation below.

$$ESQ = \frac{EEL}{TRV}$$

If multiple COPECs are present at an area of concern, each of the COPEC-specific ESQ values for a receptor is summed to derive a CESQ for each receptor according to the following equation:

$$CESQ_{Receptor} = \sum ESQ_{COPEC}$$

CESQs assume that the exposure and risk from multiple contaminants are additive (i.e., two or more contaminants may affect the same target organs or organ systems and/or act by similar mechanisms) (NMED 2000a).

7.2.5.1 Description of Risk

The exceedance of toxicological benchmarks does not imply certain ecological risk; rather, the exceedance indicates contamination may be sufficient to warrant further investigation.

ESQs greater than 1.0 indicate potential risk to an ecological receptor and may indicate the need for further evaluation using more site-specific information. ESQs less than 1.0 indicate no potential ecological risk. COPECs with ESQs less than 1.0 can be removed from further consideration due to the inherent and conservative assumptions applied to derive the ESQ. A summary of the risk to community and guild measurement receptors at DP-63 is presented in Table 7-3.

The analysis of the risk estimates showed that the majority of risk was from barium, lead, cadmium, and zinc. The risk estimates for barium and cadmium, however, are expected to be overestimated as discussed below. Although the maximum barium concentration in soil at DP-63 (103 mg/kg) exceeds site background, it is less than western U.S. background values. Shacklette and Boerngen (1984) report that the arithmetic mean of barium concentrations in the western soil is 670 mg/kg. Therefore, while the concentrations of barium at DP-63 exceed background values, they are within the natural range of barium in the western soil.

Cadmium ESQs in the surface soil are elevated for plants, deer mouse, and least shrew (24, 41 and 98, respectively). If cadmium background concentrations are used in the risk model, the estimated ESQs are 5, 9, and 21 for plants, deer mouse, and least shrew, respectively. This demonstrates that while cadmium ESQs are elevated based on site concentrations, the incremental risk above background is low. Furthermore, cadmium was only detected once at DP-63 in the West Area. The ESQs for cadmium could be overestimated because of the conservative assumptions used in the risk model and are not representative of the entire site.

The elevated ESQs for lead may not represent overall site conditions. There were only two detections of lead higher than the rest of the lead detections at DP-63. Of the remaining 15 samples, only two slightly exceeded the background value. This means that the lead ESQs might be an overestimate of potential ecological risk.

The elevated metal ESQs could be a result of surface debris present at DP-63. Metallic debris was present during the 2002 sampling events. If samples were collected near the surface debris, this could elevate the sample results for lead, copper, and nickel. Metal constituents in surface debris have low bioavailability considering exposure routes and physical and chemical characteristics of the metals.

7.2.5.2 Limitations and Uncertainties in the Screening Process

There are a number of sources of uncertainty associated with the characterization of potential risk at DP-63 at Holloman AFB. These uncertainties should be kept in mind when interpreting the results of the assessment. There are uncertainties associated with the receptor species selected for evaluation, the sampling and COPEC selection process, the assumptions used in estimating the daily dose ingested by the receptor species, and the toxicity information used. The effects these uncertainties may have on the results of the SLERA are discussed qualitatively below.

The ecological screening process is based on the premise that protection of ecological receptors selected based on their role within the ecosystem will protect the ecosystem as a whole. However, it is possible that the receptors that were chosen for this SLERA are not the most sensitive to the effects of a particular COPEC. The potential to underestimate risk because of the uncertainties associated with the selection of potential receptors is moderate.

There is uncertainty associated with the COPEC selection process. It is possible that a chemical is present that was not detected during sampling and was not expected to be present. In addition, chemicals were eliminated from the COPEC list based on a comparison with background concentrations. This methodology creates a low potential that risk has been underestimated at the site.

There is also some uncertainty associated with the exposure assumptions used in this SLERA. For example, it was conservatively assumed that the red-tailed hawk feeds entirely on prey species from DP-63 with bioconcentrated COPECs in their tissues. It was also assumed that the exposure point concentration was equal to the maximum concentration detected at DP-63. These assumptions likely overestimate the concentration of the COPECs to which the receptors are exposed.

Uncertainties related to estimating the tissue concentrations of COPECs are generated by assumptions about the bioconcentration of COPECs by receptors and how the COPECs are metabolized. The potential for the estimated dose and risk to be underestimated is moderate.

Basing toxicity values on surrogate domestic species to determine the toxicity to a wildlife species also is a source of uncertainty. The application of uncertainty factors are generally high enough that the tendency would be to overestimate toxicity. The potential to underestimate risk due to this methodology is moderate.

There is uncertainty associated with the assumption that COPECs are 100 percent bioavailable to plants and animals. Bioavailability of COPECs can vary substantially with factors such as pH, temperature, alkalinity of soil, organic carbon content of soil, soil type, and health of the individual animal. The potential to overestimate risk due to this assumption is moderate to high.

7.2.6 SLERA Results and Conclusions

The risk characterization showed that potential risk to measurement receptors at DP-63 occurred only from exposure to COPECs in surface soil. The subsurface soil only had two COPECs (diethylphthalate and cyanide). ESQs for diethylphthalate were below 1.0. Risk would not be calculated for cyanide because toxicity data are not available. The risk characterization determined that there was a potential risk from exposure to barium, cadmium, copper, lead, nickel, and zinc in surface soil. Results of the risk characterization are summarized in Table 7-3. The lowest ESQs was 2.8 for the deer mouse from copper exposure. The largest ESQ was 1,600 for terrestrial plants from zinc exposure. The ESQs for lead for all receptors, except terrestrial invertebrates, were greater than 100. The deer mouse had the lowest lead ESQ (190), while the least shrew had the highest (600). The red-tailed hawk's ESQ for lead was 580. Even though the calculations were not presented in this SLERA, when the arithmetic mean for lead is used as the exposure point concentration, ESQs for the all receptors were also elevated. There were only two lead detections that were much higher than the rest of the lead detections at DP-63. Of the remaining 15 samples, only two slightly exceeded the background value. This means that the lead ESQs may not be representative of the entire site. These elevated ESQs could also be a result of surface debris present at

DP-63. Metallic debris was present during sampling activities during the 2002 sampling event. If samples were collected near the surface debris, this could elevate the sample results for lead, copper, and nickel. It is likely that metal constituents in surface debris would have low bioavailability.

ESQs for community-level receptors were also elevated. Lead, copper and zinc were the only COPECs that had slightly elevated ESQs for terrestrial invertebrates. All of the inorganic COPECs produced elevated ESQs for terrestrial plants. The elevated zinc ESQ, like copper, is a result of the maximum detection being significantly higher than the next highest detection. Both of the maximum concentrations of copper and zinc were from the same sample from the West Area so the ESQs may not be representative of the entire site. However, there is some uncertainty associated with the TRVs used for the risk characterization. Many of the test species used in toxicity studies are agricultural species that may be more sensitive than native species. For example, the plant used as the basis of the chromium toxicity value is lettuce; chemical forms at the site might not be as bioavailable as those in the toxicity studies; and site-specific conditions, such as pH, soil type, and total organic carbon can greatly affect bioavailability.

The ESQs associated with copper in upper trophic-level species were all less than 10 at DP-63. These ESQs less than 10 are probably elevated due to uncertainties inherent in this SLERA. The largest copper ESQ is approximately 3. In addition, the maximum detection of copper in surface soil (1,330 mg/kg) was two orders of magnitude greater than the next highest detection (57.2 mg/kg). Therefore, ecological risk from exposure to copper at DP-63 is unlikely.

Elevated ESQs were also present from exposure to barium and cadmium. Although the risk estimates for these COPECs are elevated, the risk estimates are potentially overestimated. Although the maximum barium concentration in soil at DP-63 (103 mg/kg) exceeds site background, it is less than Western U.S. background values in the western soil. Shacklette and Boerngen (1984) report that the arithmetic mean of barium concentrations in the western soil is 670 mg/kg. Therefore, the concentrations of barium at DP-63 are within the natural range of barium in the western soil and the ESQs might reflect natural conditions.

Cadmium ESQs in the surface soil are elevated for plants, deer mouse, and least shrew (24, 41 and 98, respectively). If cadmium background concentrations are used in the risk model, the estimated ESQs are 5, 9 and 21 for plants, deer mouse, and least shrew, respectively. This demonstrates that while cadmium ESQs are elevated at site concentrations, the incremental risk above background is low. Furthermore, cadmium was only detected once at DP-63 in the West Area. The ESQs for cadmium could be

overestimated because of the conservative assumptions used in the risk model and are not representative of the entire site.

Federal- and state-listed threatened, endangered, candidate and sensitive species were not quantitatively evaluated in this SLERA. The conservatism inherent in the SLERA is designed to be protective of all potential ecological receptors.

The SLERA was designed to evaluate potential risk to representative receptors from multiple trophic levels present at the site. There are many sources of uncertainties in the risk assessment, partially because exposure estimates were based on modeled values instead of measured tissue concentrations. The risk characterization indicated that risk might be present for multiple trophic-level species from COPECs present DP-63.

8.0 CONCLUSIONS AND RECOMMENDATIONS

A summary of the nature and extent of contamination and the results of the risk assessment are presented below to support the recommendation for future programs at DP-63. Recommendations for further action at DP-63 are presented in Section 8.4 and are supported by the conclusions presented in Sections 8.2 through 8.3.

8.1 NATURE AND EXTENT OF CONTAMINATION

Surface observations and geophysical data show that metallic debris occurs on the surface and subsurface of the North, East and West areas. Major results of the field investigation indicate the following:

- Metals in soil samples were elevated in comparison to Basewide background values and appear to vary as a function of lithology as well as depth. Surface detections of copper, lead, nickel, and zinc are most likely a function of surface contamination from munitions disposal. Only one detection of copper exceeded the upper range of regional background values from published literature for surface materials in the western U.S. Metals concentrations exceeding background values in clay-rich layers at depth, and elevated concentrations of sodium, barium, and calcium at the surface in caliche-containing soils are more likely a function of lithology than of contamination.

- Methylene chloride was detected in three surface soil samples collected in the East Area and in the associated laboratory method blank, suggesting laboratory cross-contamination. Two SVOCs, bis(2-ethylhexyl)phthalate and diethylphthalate, were detected in soil and are probably due to laboratory and/or field sampling cross-contamination. Petroleum hydrocarbons were detected in soil samples above the capillary fringe as ORO, GRO, and DRO but the combined total of these three ranges occurred at a maximum concentration of 530 mg/kg, well below the regulatory action level of 940 mg/kg. None of the TPH detected in soil samples collected during the PA/SI exceeded the regulatory action level of 940 mg/kg. Cyanide was detected in two subsurface soil samples in the East Area. This result is consistent with these from the PA/SI, during which cyanide was detected in one soil sample from the East Area at a depth of 21 ft.

- Dissolved-phase constituents detected in groundwater included metals and VOCs. Elevated metals in groundwater are probably naturally occurring and are likely due to the high salinity and turbidity within the uppermost water-bearing zone. The groundwater beneath the Base is Class IIIB and can be considered a potential source of drinking water, but is precluded from being used as such by the NMWQCC water quality regulations because TDS exceeds 10,000 mg/L.

Therefore, there are no regulatory drivers that require Holloman AFB to address VOC groundwater contamination at the site.

8.2 HUMAN HEALTH RISK ASSESSMENT

Detected metals with concentrations greater than background values, constituents not considered essential nutrients, and all detected organic compounds, were compared to NMED Residential SSLs. A ratio of the maximum detection to the Residential SSL was calculated for each analyte whose maximum detection exceeded the Residential SSL.

A noncarcinogenic risk ratio, or hazard quotient, of 0.7 was calculated for COPCs including diethylphthalate, barium, cadmium, copper, cyanide, lead, nickel and zinc; therefore, the risk is acceptable based on the noncarcinogens detected in soil at DP-63. Of the noncarcinogens, only lead had a risk ratio greater than 1.0. There were 39 detections of lead in soil. Only one sample contained lead at a concentration greater that the Residential SSL of 400 mg/kg. The average concentration of lead in soil samples (22.1 mg/kg) was well below the Residential SSL.

The carcinogens analyzed for the HHRA were bis(2-ethylhexyl)phthalate and methylene chloride. Carcinogenic ratios for these constituents were 8.70×10^{-3} and 4.47×10^{-5}, respectively. The total carcinogenic ratio was calculated as 8.74×10^{-3}. The carcinogenic ratio for both analytes and the total carcinogenic risk is well below the target risk value of 1×10^{-5}. Based on these risk calculations, potential carcinogenic risk does not exist for the residential exposure scenario. The presence of methylene chloride and bis(2-ethylhexyl)phthalate is suspect because these two analytes were also detected in the associated laboratory method blank.

8.3 SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT

The risk characterization showed that potential risk to the measurement receptors occurred from exposure to COPECs at DP-63 only in surface soil. The subsurface soil only had two COPECs (diethylphthalate and cyanide). The ESQs for diethylphthalate were all below 1.0. Risk could not be estimated for cyanide because toxicity data are not available The risk characterization determined that potential risk is present from exposure to barium, cadmium, copper, lead, nickel and zinc in surface soil.

ESQs calculated for COPECs in surface soil ranged from 2.8 for the deer mouse from copper exposure to 1,600 for terrestrial plants from zinc exposure. The largest ESQs for upper trophic- level species were from exposure to lead. ESQs for lead ranged from 190 to 600 for all receptors. Because only two soil samples contained lead at concetrations greater than background, the lead ESQs may not be representative

of the entire site. These elevated ESQs could also be a result of surface debris present at DP-63. Metallic debris was observed during sampling activities during the 2002 sampling event. Samples collected from locations near the surface debris, could contain increased concentrations of lead, copper, and nickel. Metal constituents in surface debris have low bioavailability.

ESQs for community-level receptor exposure to surface soil were also elevated. Lead, copper and zinc were the only COPECs that had slightly elevated ESQs for terrestrial invertebrates. All of the inorganic COPECs produced elevated ESQs for terrestrial plants. Because the maximum concentrations of copper and zinc were from the same sample from the West Area, the calculated risk is not representative of the entire site. There are also uncertainties in the TRVs used for the risk characterization. For example, chemical forms of metals detected in soil at the site might not be as bioavailable as those in toxicity studies. Site-specific conditions like pH, soil type, and total organic carbon can also greatly affect bioavailability.

The ESQs associated with barium, cadmium, and copper in surface soil for upper trophic-level species were greater than 1.0. Although the risk estimates for these COPECs are elevated, the risk estimates are potentially overestimated because elevated concentrations of barium, cadmium, and copper are not widespread at the site and the concentrations of metals in soil are most likely natural with respect to Basewide background values and the ranges of these metals in western soil.

Federal- and state-listed threatened, endangered, candidate and sensitive species were not quantitatively evaluated in this SLERA. The conservatism inherent in the SLERA is designed to be protective of all potential ecological receptors.

8.4 RECOMMENDATIONS

Based on the results of the HHRA and the SLERA, further action is required at DP-63 to address surface soil contamination at the site. Soil contamination at the site is limited to metals associated with munitions materials that are buoyed to the surface from the disposal pits as freezing and thawing of the ground occurs and as wind erosion reveals debris below the surface. In order to mitigate future chemical and physical risks at the site, excavation of the disposal areas is recommended. Contaminated soil may exist within the former disposal pits, and the excavated soil and the spent munitions should be characterized and disposed properly. No soil contamination was detected in samples from outside of the disposal pit area that could cause a continuing release of contamination or further degradation of groundwater. Removal of the former disposal pits and their contents will mitigate any potential degradation to

groundwater not identified during the PA/SI or RI as soil sampling did not take place directly within the disposal features surveys during this investigation.

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TABLES

Table 2-1. Samples Collected During the RI at DP-63

Sample Location ID	Location	Sampling Rationale	Samples Collected *	
			Groundwater	Soil
DP63-DP05 through DP63-DP10	East Area: Locations north, south, west and east of largest geophysical anomaly (adjacent to DP02)	DPT locations DP05 through DP19 will be sampled to further delineate contaminant sources and extent.	None	Surface - 6 Subsurface - 21
DP63-DP11 through DP63-DP13	West Area: Locations surrounding the geophysical anomaly		None	Surface - 3 Subsurface - 10
DP63-DP14 through DP63-DP19	West Area: Locations surrounding the geophysical anomaly		None	Surface - 6 Subsurface - 21
DP63-MW01	Upgradient (northeast) of site	Assess upgradient water quality and define potentiometric surface	1	None
DP63-MW02	Co-located with DP63-DP15 within the North Area	Assess water quality beneath the North Area disposal site	1	None
DP63-MW03	Downgradient (southwest) of the North Area	Assess water quality downgradient of the North Area	1	None
DP63-MW04	Co-located with DP63-DP07 within the East Area	Assess water quality beneath the East Area disposal site	1	None
DP63-MW05	Downgradient (southwest) of the East Area	Assess water quality downgradient of the North Area	1	None

* Number of samples does not inlcude field duplicate samples.

The following analyses were performed on groundwater and soil samples:

Groundwater:
- VOCs by EPA SW-846 Method 8260B
- SVOCs by EPA SW-846 Method 8270C
- Explosives by EPA SW-846 Method 8330
- TAL Metals by EPA SW-846 Method 6010B/7471A
- TDS by EPA Method 160.1

Soil:
- VOCs by EPA SW-846 Method 5030/8260B
- SVOCs by EPA SW-846 Method 8270C
- Explosives by EPA SW-846 Method 8330
- Cyanide by EPA SW-846 Method 9013
- TPH by EPA Modified Method 8015
- TAL Metals by EPA SW-846 Method 6010B/7471A

Table 5-1. Results for Analytes Detected in Soil Samples Collected During the PA/SI

Location	Depth Interval (ft)	TAL Metals (mg/kg)										
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
DP01	7 - 8	2,070	NA	<1.0	<1.0	<0.2	NA	213,000	2.3	<1.0	<1.0	1,940
	21 - 22	4,240	NA	<1.0	65.8	<0.2	NA	88,300	6.4	<1.0	<1.0	6,140
	44 - 45 *	5,650	NA	<1.0	**94.4**	<0.2	NA	170,000	**7.4**	<1.0	<1.0	5,510
DP02	7 - 8	1,360	NA	<1.0	<1.0	<0.2	NA	196,000	<1.0	<1.0	<1.0	1,280
	17 - 18	4,960	NA	<1.0	<1.0	<0.2	NA	190,000	7.3	<1.0	<1.0	4,920
	46 - 47 *	6,930	NA	5.2	334	<0.2	NA	108,000	**8.3**	**75.7**	**21.2**	**8,890**
DP03	12 -13	4,560	NA	<1.0	53.5	<0.2	NA	142,000	6.2	<1.0	<1.0	5,130
	21 - 22	5,970	NA	<1.0	50.4	<0.2	NA	190,000	6.3	<1.0	**6.2**	5,890
	45 - 46 *	1,940	NA	<1.0	<1.0	<0.2	NA	76,700	3.9	<1.0	<1.0	2,690
DP04	5 - 6	4,090	NA	<1.0	<1.0	<0.2	NA	177,000	4.4	<1.0	<1.0	3,640
	20 - 21	**19,600**	NA	**7.3**	**227**	**1.3**	NA	135,000	**22.4**	<1.0	**13.6**	**17,800**
	44 - 45 *	7,970	NA	2.6	**120**	<0.2	NA	98,800	<1.0	<1.0	**4.9**	**8,050**
Base Background Values [1]		8,760	NA	6.88	84.4	0.400	NA	250,000	6.60	2.49	4.84	6,360
Literature Range for for Background Values [2]		5000 - 100000	< 1 - 2.6	< 0.1 - 97	70 - 5000	< 1 - 15	N/A N/A	600 - 320000	3 - 2000	< 3 - 50	2 - 300	1000 - 100000

Table 5-1. Results for Analytes Detected in Soil Samples Collected During the PA/SI

Location	Depth Interval (ft)	TAL Metals (mg/kg)								
		Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Thallium	Vanadium	Zinc
DP01	7 - 8	0.69	1,260	25.7	<1.0	<50	<200	NA	<1.0	5.1
	21 - 22	3.6	4,410	91.7	<1.0	<50	1,500	NA	14	14.7
	44 - 45 *	3	3,270	77.8	<1.0	<50	2,600	NA	<1.0	18.8
DP02	7 - 8	2.8	1,270	21	<1.0	<50	<200	NA	<1.0	<3.0
	17 - 18	3.5	2,970	74.5	<1.0	1,260	1,540	NA	<1.0	15.1
	46 - 47 *	**10.5**	4,340	**4,930**	**33.2**	1,270	2,480	NA	**45.9**	**22.1**
DP03	12 -13	3.5	3,950	102	<1.0	<50	1,390	NA	11.4	15.1
	21 - 22	3.5	3,770	67.1	<1.0	1,520	2,290	NA	<1.0	**29**
	45 - 46 *	2.8	1,610	59.6	<1.0	<50	1,560	NA	<1.0	9.5
DP04	5 - 6	1.8	2,300	62	<1.0	1,180	<200	NA	<1.0	10.7
	20 - 21	**12.3**	9,370	**308**	**19.5**	**3,700**	3,900	NA	**37.3**	**58.4**
	44 - 45 *	5.7	4,570	122	**7.3**	1,510	2,190	NA	**38.4**	**22.8**
Base Background Values [1]		8	14,700	165	5.61	2,500	5,000	NA	15.5	20.2
Literature Range for for Background Values [2]		< 10 - 700	300 - 100000	30 - 5000	< 5 - 700	1900 - 63000	500 - 100000	N/A N/A	7 - 500	10 - 2100

Table 5-1. Results for Analytes Detected in Soil Samples Collected During the PA/SI

Location	Depth Interval (ft)	Explosives (ug/kg)	VOCs (ug/kg)			SVOCs (ug/kg)		TRPH (mg/kg)	Cyanide (mg/kg)
			Carbon disulfide	2-Butanone	Toluene	Diethyl-phthalate	bis(2-Ethylhexyl) phthalate		
DP01	7 - 8	NA	<250	<500	<250	<330	<330	<20	<0.2
	21 - 22	NA	<250	<500	<250	<330	<330	62.5	<0.2
	44 - 45 *	NA	4497	1526	<250	<330	<330	41.4	<0.2
DP02	7 - 8	NA	<250	<500	<250	<330	<330	<20	<0.2
	17 - 18	NA	<250	<500	<250	<330	<330	37.7	<0.2
	46 - 47 *	NA	<250	<500	<250	<330	<330	71.4	<0.2
DP03	12 -13	NA	7904	2705	308	750	1500	38.5	<0.2
	21 - 22	NA	7406	2752	328	<330	<330	79	0.26
	45 - 46 *	NA	7242	2946	<250	100	<330	263	<0.2
DP04	5 - 6	NA	<250	<500	<250	<330	<330	<20	<0.2
	20 - 21	NA	<250	<500	<250	<330	<330	39.7	<0.2
	44 - 45 *	NA	<250	<500	<250	<330	<330	70.7	<0.2
Base Background Values[1]		NB	NB	NB	NB	NB	NB	NB	NB
Literature Range for		NB	NB	NB	NB	NB	NB	NB	NB
for Background Values[2]		NB	NB	NB	NB	NB	NB	NB	NB

Note: Pesticides and PCBs were analyzed for but not detected

[1] Background values represent the 95 percent upper tolerance limit for data collected as part of the Basewide background study (Radian 1993).
Concentrations denoted in bold-face type exceed analyte-specific background values.

[2] Literature values represent the concentration ranges for metals in soil within the Western conterminous United States (Shacklette and Boerngen, 1984).

* Sample collected below the water table
mg/kg - Milligrams per kilogram
N/A - Background value(s) not available
NA - Not analyzed
NB - No background values available
SVOCs - Semivolatile organic compounds
ug/kg - Micrograms per kilogram
VOCs - Volatile organic compounds

Table 5-2. Results for Analytes Detected in Soil Samples Collected During the RI

Sample Location	Depth Interval	Metals (mg/kg)													
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
DP05	0-0.5 ft	2810	<10	<1	40.1	<1	<1	178,000	3.04	<2	**6.08**	2240	**8.43**	3780	55.8
	4-5 ft	2440 *(J/UJ)*	<10	<1	19.1	<1	<1	204000 *(J/UJ)*	<2	<2	<2	1970	1.37	1290	29
	9-10 ft	2130 *(J/UJ)*	<10	<1	16.7	<1	<1	188000 *(J/UJ)*	<2	<2	<2	1740	1.18	1040	23.4
	20-21 ft	6880 *(J/UJ)*	<10	<1	48.6	<1	<1	151000 *(J/UJ)*	6.42	<2	4.46	5060	3.41	3050	52.9
DP06	0-0.5 ft	1320	<10	<1	24.7	<1	<1	213,000	<2	<2	3.54	1010	1.75	1190	25
	4-5 ft	2730 *(J/UJ)*	<10	1.03	22.3	<1	<1	199000 *(J/UJ)*	2.46	0.886 B	1.42 B	2300 *(J/UJ)*	1.02 B	1640	33.7
	9-10 ft	1980 *(J/UJ)*	<10	0.916 B	17.6	<1	<1	202000 *(J/UJ)*	1.69 B	<2	0.882 B	1680 *(J/UJ)*	0.688 B	1070	24.3
	24-25 ft	**28200** *(J/UJ)*	<10	3.25	**104**	<1	<1	175000 *(J/UJ)*	**28.3**	**6.86**	**15.4**	**19300** *(J/UJ)*	**10.5**	**234**	**201** *(J/UJ)*
	46.5-47.5 ft	**12700** *(J/UJ)*	<10	<1	53.1	<1	<1	94500 *(J/UJ)*	**12**	**3.82**	**6.05**	**10200** *(J/UJ)*	4.61	49.3	150 *(J/UJ)*
DP07	0-0.5 ft	2890	<10	<1	**103**	<1	<1	116,000	3.68	<2	**57.2**	2610	**759**	2180	75.2
	4-5 ft	2740 *(J/UJ)*	<10	0.669 B	23.2	<1	<1	189000 *(J/UJ)*	2.19 B	<2	1.2 B	2330 *(J/UJ)*	1.14 B	1830	32.3
	9-10 ft	1770 *(J/UJ)*	<10	1.74	15.2	<1	<1	193000 *(J/UJ)*	1.79 B	<2	0.964 B	1560 *(J/UJ)*	0.637 B	1090	38.9
	24-27 ft	**10200** *(J/UJ)*	<10	1.63	73.5	<1	<1	174000 *(J/UJ)*	**9.87**	**3.45**	**6.42**	**8450** *(J/UJ)*	4.58	50.7	**223** *(J/UJ)*
	43-46.5 ft	7060 *(J/UJ)*	<10	<1	83.6	<1	<1	118000 *(J/UJ)*	**6.88**	<2	4.31	**6660** *(J/UJ)*	2.95	33.2	85.7 *(J/UJ)*
DP08	0-0.5 ft	2890	<10	<1	35.8	<1	<1	157,000	2.61	<2	4.02	2200	5.52	3820	51.3
	4-5 ft	2160 *(J/UJ)*	<10	1.42	17.7	<1	<1	192000 *(J/UJ)*	2.2 B	<2	0.923 B	1990 *(J/UJ)*	0.679 B	1380	26
	9-10 ft	2250 *(J/UJ)*	<10	0.527 B	16.4	<1	<1	207000 *(J/UJ)*	2.00 B	<2	1.01 B	1860 *(J/UJ)*	0.579 B	1180	57.1
	24-25 ft	**15200** *(J/UJ)*	<10	2.51	**120**	<1	<1	143000 *(J/UJ)*	**14.1**	**7.08**	**11**	**12900** *(J/UJ)*	7.77	82.9	**331** *(J/UJ)*
	44-45 ft	1800 *(J/UJ)*	<10	<1	24.3	<1	<1	250000 *(J/UJ)*	<2	<2	<2	1780 *(J/UJ)*	<1	11.4	57.8 *(J/UJ)*
DP09	0-0.5 ft	3370	<10	1.62	47.9	<1	<1	190,000	2.87	<2	**4.89**	2640	2.21	3990	59.1
	4-5 ft	2170 *(J/UJ)*	<10	1.43	17.2	<1	<1	202000 *(J/UJ)*	2.00 B	<2	0.766 B	1930 *(J/UJ)*	0.633 B	1180	25.7
	9-10 ft	2000 *(J/UJ)*	<10	<1	16.3	<1	<1	190000 *(J/UJ)*	1.83 B	<2	1.02 B	1820 *(J/UJ)*	0.625 B	1100	22
	19-20 ft	**23400** *(J/UJ)*	<10	3.30	**115**	**1.09 B**	<1	119000 *(J/UJ)*	**24.8**	**7.1**	**11.7**	**18300** *(J/UJ)*	**9.23**	**18,900**	**203**
DP10	0-0.5 ft	3680	<10	<1	36.7	<1	<1	100,000	3.09	<2	**13.6**	2900	7.71	2870	72
	4-5 ft	2080 *(J/UJ)*	<10	1.06 B	19.1	<1	<1	206000 *(J/UJ)*	2.01 B	<2	0.751 B	1870 *(J/UJ)*	0.455 B	1250	49.8
	9-10 ft	3880 *(J/UJ)*	<10	0.916 B	30.7	<1	<1	184000 *(J/UJ)*	3.57	1.27 B	2.4 B	3380 *(J/UJ)*	1.36	1800	42.2
	19-20 ft	7740 *(J/UJ)*	<10	1.81	52.4	0.23 B	<1	173000 *(J/UJ)*	**7.45**	2.42	4.3	**6710** *(J/UJ)*	3.35	3410	119
DP11	0-0.5 ft	5100	<10	1.57	65.4	<1	<1	110,000	4.07	<2	**9.02**	3710	3.75	12700	65.6
	4-5 ft	3490 *(J/UJ)*	<10	1.08 B	28.5	<1	<1	165000 *(J/UJ)*	3.14	1.09 B	1.88 B	3160 *(J/UJ)*	1.41	2470	53.4
	9-10 ft	4380 *(J/UJ)*	<10	1.31	32	<1	<1	170000 *(J/UJ)*	3.61	1.36 B	2.24 B	3550 *(J/UJ)*	1.83	2190	76
	20-21 ft	**14000** *(J/UJ)*	<10	1.92	75.5	<1	<1	155000 *(J/UJ)*	**13.1**	**3.58**	**8.17**	**10,300**	7.16	5680	158
DP12	0-0.5 ft	650	<10	<1	24.2	<1	<1	**311000**	<2	<2	4.13	443	<1	2320	12.8
	4-5 ft	4210 *(J/UJ)*	<10	<1	31.8	<1	<1	162000 *(J/UJ)*	3.51	<2	2.36	3220	2.16	1850	53.1
	9-10 ft	4330 *(J/UJ)*	<10	<1	36.8	<1	<1	148000 *(J/UJ)*	3.74	<2	2.75	3390	2.28	1900	95.2
	20-21 ft	**11400** *(J/UJ)*	<10	1.61	76.8	<1	<1	154000 *(J/UJ)*	**10.1**	**2.82**	**6.67**	**8380**	5.39	4620	138
DP13	0-0.5 ft	3910	<10	<1	46.5	<1	**4.83**	77,200	3.94	<2	**1330**	5400	**132**	2790	88.8
	4-5 ft	2590 *(J/UJ)*	<10	<1	20.8	<1	<1	91,500	<2	<2	<2	2050	<1	1190	32.3
	9-10 ft	2620 *(J/UJ)*	<10	<1	21.1	<1	<1	81,200	<2	<2	<2	2040	<1	1100	47
	24-27 ft	**15000** *(J/UJ)*	<10	1.73	**129**	<1	<1	205000 (J/UJ)	13.9	3.95	8.61	11600 *(J/UJ)*	6.82	65.7	**313** *(J/UJ)*
	39-40 ft	**18900** *(J/UJ)*	<10	<1	**127**	<1	<1	107000 *(J/UJ)*	22.3	6.76	8.88	13100 *(J/UJ)*	7.82	65.6	**249** *(J/UJ)*
DP14	0-0.5 ft	541	<10	<1	23.2	<1	<1	**290000**	<2	<2	3.2	385	<1	1190	8.65
	4-5 ft	1750 *(J/UJ)*	<10	<1	17.9	<1	<1	94,700	<2	<2	<2	1340	<1	1220	18.5
	9-10 ft	3190 *(J/UJ)*	<10	<1	21.9	<1	<1	85,900	3.16	<2	<2	2530	1.4	1590	41.8
	24-25 ft	**9270**	<10	0.899 B	65.4	0.204 B	<1	190,000	**8.41**	**2.94**	**5.41**	**7410**	3.73	5630	106
	47-48 ft	6390	<10	<1	31.5	0.244 B	<1	233,000	6	1.78 B	2.55 B	5120	2.46	2940	70.5

Table 5-2. Results for Analytes Detected in Soil Samples Collected During the RI (Continued)

		Metals (mg/kg)						VOCs (ug/kg)	SVOCs (ug/kg)		Total Petroleum Hydrocarbons (mg/kg)			
Sample Location	Depth Interval	Nickel	Potassium	Sodium	Thallium	Vanadium	Zinc	Methylene chloride	Bis(2-ethylhexyl)-phthalate	Diethyl-phthalate	Oil Range	Diesel Range	Gasoline Range	Cyanide (mg/kg)
DP05	0-0.5 ft	3.12	1220	**6460**	<1	5.18	12.7	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	<2	793	759 *(J/UJ)*	<1	4.4	6.68	<5	<330	<330	<10	<5	0.068 B	<0.1
	9-10 ft	<2	662	658 *(J/UJ)*	<1	3.84	4.9	<5	<330	<330	<10	<5	<0.5	<0.1
	20-21 ft	4.9	1870	2030 *(J/UJ)*	<1	15.3	18.4	<5	<330	<330	<10	<5	<0.5	<0.1
DP06	0-0.5 ft	<2	<500	1630	<1	<2	6.16	<5	<330	<330	<10	<5	0.16	<0.1
	4-5 ft	1.9 B	898	471	<1	7.28	8.13 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	1.1 B	571 B	373	<1	3.41	5.6 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	24-25 ft	**21.7**	**300** *(J/UJ*	4440	<1	**43.9**	**69.1**	<5	<330	<330	<10	<5	<0.5	<0.1
	46.5-47.5 ft	**9.66**	390 *(J/UJ*	1670	<1	**19.5**	**26**	<5	<330	<330	<10	<5	<0.5	<0.1
DP07	0-0.5 ft	<2	744	364	<1	4.98	**112**	3.8 J	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	1.9 B	825	559	<1	6.75	8.17 *(J/UJ)*	<5	<330	<330	<10	<5	0.13	<0.1
	9-10 ft	1.38 B	204 B	315	0.708 B	3.29	5.55 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	24-27 ft	**7.42**	880 *(J/UJ*	596 *(J)*	<1	**18.6**	**26.1**	<5	<330	630 *(J)*	<10	<5	<0.5	<0.1
	43-46.5 ft	4.89	250 *(J/UJ*	1290	<1	14.2	16	<5	<330	390	<10	<5	<0.5	<0.1
DP08	0-0.5 ft	<2	929	2470	<1	6.31	9.72	2.8 B	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	1.14 B	550 B	364	<1	5.66	6.38 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	1.32 B	720	459	<1	3.68	7.91 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	24-25 ft	**14.1**	**340** *(J/UJ*	2280	<1	**24.6**	**48.7**	<5	<330	<330	<10	<5	<0.5	0.199 B
	44-45 ft	<2	16 B *(J/UJ*	995	<1	4.33	5.23	<5	<330	<330	<10	<5	<0.5	<0.1
DP09	0-0.5 ft	2.56	1140	2470	<1	5.94	9.22	2.5 B	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	1.47 B	522 B	145	<1	4.7	6.52 *(J/UJ)*	<5	<330	1200	<10	<5	<0.5	0.266 B *(J)*
	9-10 ft	1.28 B	575 B	354	<1	3.72	5.81 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	19-20 ft	**20.1**	**4850**	3800	2.01	**35.5**	**59.8** *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
DP10	0-0.5 ft	2.48	1010	260	<1	6.47	19.4	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	1.74 B	664	675	<1	3.7	7.12 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	2.97	1030	160	<1	6.03	12.3 *(J/UJ)*	<5	<330	560	<10	<5	<0.5	<0.1
	19-20 ft	**6.03**	1790	1280	<1	13	**21.2** *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
DP11	0-0.5 ft	3.45	1590	2370	<1	10.3	**35.3**	<5	<330	850	<10	<5	<0.5	<0.1
	4-5 ft	2.91	1070	625	<1	7.04	11.5 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	3.07	1250	652	<1	7.85	12.1 *(J/UJ)*	<5	<330	<330	<10	<5	<0.5	<0.1
	20-21 ft	**10.1**	**3130**	2870 *(J/UJ)*	<1	**24.9**	**33.7**	<5	<330	<330	<10	<5	<0.5	<0.1
DP12	0-0.5 ft	<2	<500	1880	<1	<2	**24.8**	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	3.24	1310	1360 *(J/UJ)*	<1	8.34	8.56	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	3.02	1260	1470 *(J/UJ)*	<1	8.05	9.38	<5	<330	<330	<10	<5	<0.5	<0.1
	20-21 ft	**7.8**	2720	2960 *(J/UJ)*	<1	**18.8**	**25.8**	<5	<330	<330	140 *(J)*	390 B *(J)*	<0.5	<0.1
DP13	0-0.5 ft	**59.6**	849	84.7 B	<1	7.38	**1420**	<5	400 B	1600	<10	8.2 B	<0.5	<0.1
	4-5 ft	<2	673	747	<1	4.86	6.98	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	<2	781	184	<1	4.82	6	<5	<330	<330	<10	<5	<0.5	<0.1
	24-27 ft	**11.3**	800 *(J/UJ*	2240	<1	**28.6**	**32.7**	<5	<330	<330	<10	<5	<0.5	<0.1
	39-40 ft	**14.1**	**410** *(J/UJ*	2190	<1	**28**	**43.2**	<5	<330	<330	<10	<5	<0.5	<0.1
DP14	0-0.5 ft	<2	<500	548	<1	<2	14.4	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	<2	478 B	903	<1	4.31	8.8	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	<2	888	730	<1	6.49	8.23	<5	<330	<330	<10	<5	<0.5	<0.1
	24-25 ft	**6.58**	2070	1890 *(J/UJ)*	<1	15.3	**23**	<5	<330	<330	<10	<5	<0.5	<0.1
	47-48 ft	5.08	1550	1010 *(J/UJ)*	<1	9.21	14.9	<5	<330	<330	<10	<5	<0.5	<0.1

Table 5-2. Results for Analytes Detected in Soil Samples Collected During the RI (Continued)

Sample Location	Depth Interval	Metals (mg/kg)													
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
DP15	0-0.5 ft	882	<10	1.35	20.2	<1	<1	**254000**	<2	<2	2.82	518	<1	2290	9.97
	4-5 ft	2490 *(J/UJ)*	<10	<1	20	<1	<1	97,200	2.57	<2	<2	2130	1.38	1390	26.9
	9-10 ft	3480 *(J/UJ)*	<10	<1	22.9	<1	<1	95,900	3.66	<2	<2	2950	1.46	1650	45.5
	24-25 ft	**16,000**	6.73 B	3.2	**109**	**0.73 B**	<1	148,000	**16.3**	**6.73**	**12.3**	**16,100**	**8.99**	14100	**237**
	47-48 ft	5980	<10	<1	66	<1	<1	215,000	5.82	1.89 B	2.61	5280	2.37	3010	87.9
DP16	0-0.5 ft	3220	<10	<1	66.8	<1	<1	225,000	2.96	<2	**47.8**	2370	9.1	3490	51
	4-5 ft	2780 *(J/UJ)*	<10	<1	20.7	<1	<1	80,100	3.16	<2	<2	2570	1.43	1280	33.8
	9-10 ft	2600 *(J/UJ)*	<10	<1	23.4	<1	<1	85,400	3.07	<2	<2	2450	<1	1280	39.4
	18-21 ft	3790 *(J/UJ)*	<10	<1	27.2	<1	<1	104,000	4.58	<2	<2	3560	1.66	2080	48
DP17	0-0.5 ft	2070	<10	1.56	**90.7**	<1	<1	219,000	2.81	<2	**28.3**	4730	6.15	1590	46.2
	4-5 ft	4460 *(J/UJ)*	<10	2.62	35.3	<1	<1	150,000	5.64	<2	2.41	4590	2.19	2420	75.5
	9-10 ft	4790 *(J/UJ)*	<10	2.49	30.6	<1	<1	154,000	5.81	<2	<2	4720	1.97	2370	74.7
	24-25 ft	**23300** *(J/UJ)*	<10	3.63	**127** *(J/UJ)*	**0.763 B**	<1	172,000	**22.6**	**7.03**	**13.4**	**20,000**	**9.94**	13300	**303**
	47-48 ft	**10300** *(J/UJ)*	3.68 B	3.94	80.3 *(J/UJ)*	<1	<1	70,600	**10.9**	**3.45**	**5.36**	**9870**	4.15	4290	112
DP18	0-0.5 ft	1230	<10	<1	29.8	<1	<1	247,000	<2	<2	**5.36**	1000	3.05	1040	20.2
	4-5 ft	2690 *(J/UJ)*	<10	1.47	26.3	<1	<1	216,000	3.43	<2	<2	2810	2.19	2130	40.1
	9-10 ft	5460 *(J/UJ)*	<10	2	43.2	<1	<1	103,000	5.42	<2	3.17	4290	2.36	2770	62.6
	18-21 ft	6070 *(J/UJ)*	<10	2	43.8	<1	<1	166,000	5.84	<2	4.33	4950	2.54	3060	75
DP19	0-0.5 ft	1890	<10	<1	64.6	<1	<1	219,000	<2	<2	**10.9**	1710	7.37	1820	34.1
	4-5 ft	2730 *(J/UJ)*	<10	<1	26.8	<1	<1	200,000	<2	<2	<2	1670	<1	1820	22.5
	9-10 ft	5370 *(J/UJ)*	<10	1.15	36.1	<1	<1	110,000	4.71	<2	2.33	3550	1.78	2340	57.4
	18-21 ft	6800 *(J/UJ)*	<10	<1	44.3	<1	<1	173,000	6.22	<2	2.72	4940	2.38	3280	67.8
Holloman AFB Background		8760	7.28	6.88	84.4	0.400	1.04	250,000	6.60	2.49	4.84	6360	8.00	14700	165
Literature Range for for Background Values [2]		5000 - 100,000	< 1 - 2.6	< 0.1 - 97	70 - 5000	< 1 - 15	N/A	600 - 320,000	3 - 2000	< 3 - 50	2 - 300	1000 - 100,000	< 10 - 700	300 - 100,000	30 - 5,000

Table 5-2. Results for Analytes Detected in Soil Samples Collected During the RI (Concluded)

Sample Location	Depth Interval	Metals (mg/kg)						VOCs (ug/kg)	SVOCs (ug/kg)		Total Petroleum Hydrocarbons (mg/kg)			Cyanide (mg/kg)
		Nickel	Potassium	Sodium	Thallium	Vanadium	Zinc	Methylene chloride	Bis(2-ethylhexyl)-phthalate	Diethyl-phthalate	Oil Range	Diesel Range	Gasoline Range	
DP15	0-0.5 ft	<2	168 B	898	<1	2.97	4.33	<5	<330	<330	<10	5 B	<0.5	<0.1
	4-5 ft	<2	647	211	<1	5.28	7.4	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	2.54	890	890	<1	7.09	8.55	<5	<330	<330	<10	<5	<0.5	<0.1
	24-25 ft	**14.7**	**3600**	3350 *(J/UJ)*	<1	**30.3**	**56.2**	<5	<330	<330	<10	<5	<0.5	<0.1
	47-48 ft	4.82	1420	1960 *(J/UJ)*	<1	12.2	15	<5	<330	<330	<10	<5	<0.5	<0.1
DP16	0-0.5 ft	2.45	839	1130	<1	6.28	**87.4**	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	<2	765	160	<1	5.98	8.19	<5	<330	1100	<10	<5	<0.5	<0.1
	9-10 ft	<2	588 B	228	<1	5.79	8.06	<5	<330	<330	<10	<5	<0.5	<0.1
	18-21 ft	2.96	825	921	<1	8.81	11.7	<5	<330	<330	<10	<5	0.43 *(J)*	<0.1
DP17	0-0.5 ft	3.66	492 B	417	<1	4.44	**75.4**	<5	<330	<330	<10	<5	<0.5	<0.1
	4-5 ft	4.65	1410	1350	1.27	10.9	19.1	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	3.92	1250	1040	<1	10.4	13.3	<5	<330	<330	<10	<5	<0.5	<0.1
	24-25 ft	**17.9**	**5030**	2760 *(J/UJ)*	<1	**40.2**	**60.4**	<5	<330	2600	<10	<5	<0.5	<0.1
	47-48 ft	**7.36**	1970	2350 (J/UJ)	<1	**20.9**	**22.9**	<5	<330	<330	<10	<5	<0.5	<0.1
DP18	0-0.5 ft	<2	<10	1070	<1	2.65	**24**	<5	<330	<330	<10	<5	0.27	<0.1
	4-5 ft	2.81	1000	1610	<1	8.92	10.1	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	3.8	1610	1310	1.75	11.9	14	<5	<330	<330	<10	<5	<0.5	<0.1
	18-21 ft	3.8	1320	1280	<1	11.7	15.3	<5	<330	<330	<10	<5	<0.5	<0.1
DP19	0-0.5 ft	<2	664	557	<1	4.29	**30.8**	<5	<330	<330	<10	<5	0.076 B	<0.1
	4-5 ft	<2	961	1350	<1	6.36	6.66	<5	<330	<330	<10	<5	<0.5	<0.1
	9-10 ft	2.79	1350	972	<1	9.33	10.9	<5	<330	<330	<10	<5	0.16	<0.1
	18-21 ft	3.29	1540	1340	<1	11.5	14.6	<5	<330	<330	<10	<5	<0.5	<0.1
Holloman AFB Background [1]		5.61	2500	5000	11.3	15.5	20.2	<5	<330	<330	<10	<5	NB	NB
Literature Range for for Background Values [2]		< 5 - 700	1900 - 63,000	500 - 100,000	N/A	7 - 500	10 - 2100	<5	<330	<330	<10	<5	NB	NB

[1] Background values represent the 95 percent upper tolerance limit for data collected as part of the Basewide background study (Radian 1993a).
Concentrations denoted in bold-face type exceed analyte-specific background values.

[2] Literature values represent the concentration ranges for metals in soil within the western conterminous United States (Shacklette and Boerngen, 1984).

B - Inorganic analyte result reported at a level below the method reporting limit and above the instrument detection limit.
For organic compounds, B indicates that the analyte was detected in the corresponding method blank.

J - Organic analyte result reported at a level below the method reporting limit and above the instrument detection limit.

mg/kg - Milligrams per kilogram

NB - No background value exists for this analyte. Organic compounds are assumed to not occur naturally.

ug/kg - Micrograms per kilogram

Table 5-3. Summary by Area of Lithology and Metals Results for RI Soil Samples Exceeding Basewide Background

East Area

Location	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background
DP05	0-0.5	caliche sandy silt	Cu, Pb, Na	20-21	silty sand/sandy silt	Al, Ni, V, Zn	--	--	--
DP06	0-0.5	caliche sandy silt	None	24-25	silty sandy clay	Al, Ba, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, V, Zn	46.5-47.5	sand with silty clay	Al, Ba, Cr, Co, Cu, Fe, Mn, Ni, K, V, Zn
DP07	0-0.5	caliche sandy silt	Ba, Cu, Pb, Zn	24-27	silt, sand and clay	Al, Cr, Co, Cu, Fe, Mg, Mn, Ni, V, Zn	43-46.5	sand and clay	Cr, Fe
DP08	0-0.5	caliche sandy silt	None	24-25	sandy, silty clay	Al, Ba, Cr, Co, Cu, Fe, Mn, Ni, K, V, Zn	44-45	sand (SM)	Al, Ni, V, Zn
DP09	0-0.5	caliche sandy silt	Cu, Pb, Na	19.5-21	silty, sandy clay	Al, Ba, Be, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, V, Zn	--	--	--
DP10	0-0.5	caliche sandy silt	Cu, Pb, Na	20-21	sand with clay clasts	Cr, Ni, Zn	--	--	--

West Area

Location	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background
DP11	0-0.5	caliche sandy silt	Cu, Zn	20-21	sandy clay	Al, Cr, Co, Cu, Fe, Ni, K, V, Zn	--	--	--
DP12	0-0.5	caliche sandy silt	Ca, Zn	20-21	low plast clay	Al, Cr, Co, Cu, Fe, Ni, V, Zn	--	--	--
DP13	0-0.5	caliche sandy silt	Ca, Cu, Pb, Ni, Zn	24-27	clay, silt and sand	Al, Ba, Mn, Ni, V, Zn	39-40	clay	Al, Be, Mn, Ni, K, V, Zn

North Area

Location	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background	Depth (ft bgs)	Lithology	Metals Greater than Background
DP14	0-0.5	caliche sandy silt	Ca	24-25	sand with clay at 25 ft	Al, Cr, Co, Cu, Fe, Ni, Zn	47-48	silty clay with silt lenses	Al, Ni, V, Zn
DP15	0-0.5	caliche sandy silt	Ca	24-25	sand and clay	Al, Ba, Be, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, V, Zn	47-48	clay and clayey silt	Al, Ni, V, Zn
DP16	0-0.5	caliche sandy silt	Cu, Zn	18-21	sand with clayey silt	Al, Ni, V, Zn	--	--	--
DP17	0-0.5	caliche sandy silt	Ba, Cu, Zn	18-21	sand with clay, silt	Al, Ba, Be, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, V, Zn	47-48	mod plast clay	Al, Cr, Co, Cu, Fe, Ni, V, Zn
DP18	0-0.5	caliche sandy silt	Cu, Zn	18-21	sand, silty sand	Al, Ni, V, Zn	--	--	--
DP19	0-0.5	caliche sandy silt	Cu, Zn	18-21	silty clay with sand	Al, Ni, V, Zn	--	--	--

Note: All reported beryllium (Be) values were qualified by the laboratory with a "B", indicating that the result was reported at a level below the method reporting limit and above the instrument detection limit.

Table 5-4. Results for Analytes Detected in Groundwater Samples Collected During the RI

Sample Location	MW01 (upgradient well)	MW02	MW03	MW04	MW05	NMWQCC Standard [1]
Metals (mg/L)						
Aluminum	1.67	1.4	<.2	1.51	0.837	5.0
Arsenic	0.0042 B	0.0045 B	<.01	<.01	<.01	0.1
Barium	0.0342	0.062	0.0402	0.0495	0.0414	1.0
Calcium	737	1030	750	731	782	NS
Cobalt	<.02	0.0222	0.0119 B	<.02	<.02	0.05
Copper	0.0109	0.0121	0.0053 B	0.0145	0.0081 B	NS
Iron	**1.63**	**1.48**	0.081 B	**2.53**	**1.02**	1.0
Lead	<.01	<.01	<.01	0.0028 B	<.01	0.05
Magnesium	1170	756	1150	1410	1220	NS
Manganese	**0.604**	**2.2**	**0.733**	**1.18**	**1.1**	0.2
Nickel	0.0153 B	0.0169 B	0.0208	0.0184 B	0.0173 B	0.2
Potassium	11.8	13.7	19.1	13.7	13.4	NS
Selenium	<.01	<.01	<.01	<.01	0.0052 B	0.05
Sodium	3570	3230	3820	3890	3860	NS
Thallium	<.01	<.01	0.0069 B	<.01	<.01	NS
Vanadium	0.0136	0.0114	0.0064 B	0.0142	0.0114	NS
Zinc	0.0315	0.0371	0.0169 B	0.0579	0.0234	10
VOCs (ug/L)						
Acetone	<1 *	92	24	17	52	NS
Benzene	<1 *	**15**	8.1	1.4	2.8	10
Carbon disulfide	<1 *	0.32 J	<5	<5	0.23 B	NS
Chloroform	<1 *	3.3	1.1	0.5 B	2.4	100
Ethylbenzene	<1 *	0.47 J	<5	<5	0.34 B	750
m-, p-Xylenes	<2 *	1.9 J	0.41 B	<5	1.2 B	NS
o-Xylene	<1 *	0.57 B	<5	<5	0.33 B	NS
TDS (mg/L)	**20400**	**17600**	**22200**	**19300**	**22800**	1000

[1] Groundwater quality standard from the NMWQCC (20.6.2 NMAC)

Concentrations denoted in bold-face type exceed analyte-specific groundwater standards

* Based on results of confirmation sampling in January 2003

B - Inorganic analyte result reported at a level below the method reporting limit and above the instrument detection limit

J - Organic analyte result reported at a level below the method reporting limit and above the instrument detection limit

mg/L - milligrams per liter

ND - analyte not detected

NMWQCC - New Mexico Water Quality Control Commission

NS - no standard exists for this analyte

ug/L - micrograms per liter

Table 6-1. Physical and Chemical Properties for Chemicals of Concern

Analyte	CAS Number	Empirical Formula	Molecular Weight (g/mol)	Physical State (at 25 degrees C)	Density (g/ml)	Aqueous Solubility (mg/L)	Vapor Pressure (mm Hg)	Henry's Law Constant (atm-m^3/mol)	Octanol-Water Partition Coefficient [Log(K_{ow})]
Organic Compounds									
Bis(2-ethylhexyl)phthalate	117-81-7	$C_{24}H_{38}O_4$	390.54	Liquid	0.99	0.4	1.2×10^0	3×10^{-7}	5.3
Diethylphthalate	84-66-2	$C_{12}H_{14}O_4$	222.24	Liquid	1.1175	1080	5×10^{-2}	3×10^{-7}	2.96
Methylene chloride	75-09-2	CH_2Cl_2	84.9	Liquid	1.33	13,200	429	2.19×10^{-3}	25
Metals and cyanide									
Barium	7440-39-3	Ba	137.33	Solid	3.51	Hydrolyzes	1.0×10^1	NA	NA
Cadmium	7440-43-9	Cd	112.41	Solid	8.642	Insoluble	NA	NA	NA
Copper	7440-50-8	Cu	6..546	Solid	8.92	Insoluble	1.0×10^0	NA	NA
Lead	7439-92-1	Pb	207.2	Solid	11.296	Insoluble	1.0×10^0	NA	NA
Nickel	7440-02-0	Ni	58.69	Solid	8.9	Insoluble	1.0×10^0	NA	NA
Zinc	7440-66-6	Zn	65.38	Solid	7.14	Insoluble	1.0×10^0	NA	NA
Cyanide	57-12-5	CN^-	26.0177	Varies for different cyanide compounds					
Petroleum hydrocarbons	- -	Variable mixture	- -	- -	- -	- -	- -	- -	- -

NA - Not available

References for chemical and physical properties include the following:

1) Micromedex 1997
2) American Toxicological Substances and Disease Registry 1997
3) Burkhard and Kuehl 1986
4) Howard 1990
5) Mabey et al. 1989

atm-m^3 mol = atmospheres per cubic meter per mole
g/mol = grams per mole
g/ml = grams per milliliter
mg/L = milligrams per liter
mmHg = millimeters of mercury
Log(K_{ow}) = Base 10 logarithm of the octanol-water partition coefficient

Table 7-3. Summary of Risks (ESQs) Based on SLERA for Ecological Receptors at DP-63 [1]

COPEC	Plants	Terrestrial Invertebrates	Deer Mouse	Mourning Dove	Least Shrew	Red-Tailed Hawk
Surface Soil						
Organic Compounds						
Bis(2-ethylhexyl) phthalate	<1	--	<1	<1	<1	<1
Diethyl phthalate	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	<1	<1	<1	<1
Inorganic Analytes						
Barium	**21**	--	**11**	<1	**26**	<1
Cadmium	**24**	<1	**41**	<1	**98**	<1
Copper	**1300**	**13**	**2.8**	<1	**4.4**	**5.7**
Lead	**170**	**7.6**	**190**	**270**	**600**	**580**
Nickel	**13**	<1	<1	<1	<1	<1
Zinc	**1600**	**7.1**	**16**	<1	**41**	<1
Subsurface Soil						
Organic Compounds						
Diethyl phthalate	<1	<1	<1	--	<1	--
Inorganic Analytes						
Cyanide	<1	--	<1	--	<1	--

Notes:

1 Refer to Appendix C, Tables C-15 through C-20, for risk calculations. Risk estimates are presented to two significant figures.

Any ESQ that exceeds 1.0 is presented in **bold**. Refer to text for discussion for discussion on aluminum, chromium, and iron ESQs.

COPEC = chemical of potential ecological concern

ESQ = estimated screening quotient

-- = not applicable

< = less than

Table 7-3. Summary of Risks (ESQs) Based on SLERA for Ecological Receptors at DP-63 (1)

COPEC	Plants	Terrestrial Invertebrates	Deer Mouse	Mourning Dove	Least Shrew	Red-Tailed Hawk
Surface Soil						
Organics						
Bis(2-ethylhexyl) phthalate	<1	--	<1	<1	<1	<1
Diethyl phthalate	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	<1	<1	<1	<1
Inorganics						
Barium	**21**	--	**11**	<1	**26**	<1
Cadmium	**24**	<1	**41**	<1	**98**	<1
Copper	**1300**	**13**	**2.8**	<1	**4.4**	**5.7**
Lead	**170**	**7.6**	**190**	**270**	**600**	**580**
Nickel	**13**	<1	<1	<1	<1	<1
Zinc	**1600**	**7.1**	**16**	<1	**41**	<1
Subsurface Soil						
Organics						
Diethyl phthalate	<1	<1	<1	--	<1	--
Inorganics						
Cyanide	<1	--	<1	--	<1	--

Notes:

1 Refer to Appendix C, Tables C-15 through C-20, for risk calculations. Risk estimates are presented to two significant figures.

Any ESQ that exceeds 1.0 is presented in **bold**. Refer to text for discussion for discussion on aluminum, chromium, and iron ESQs.

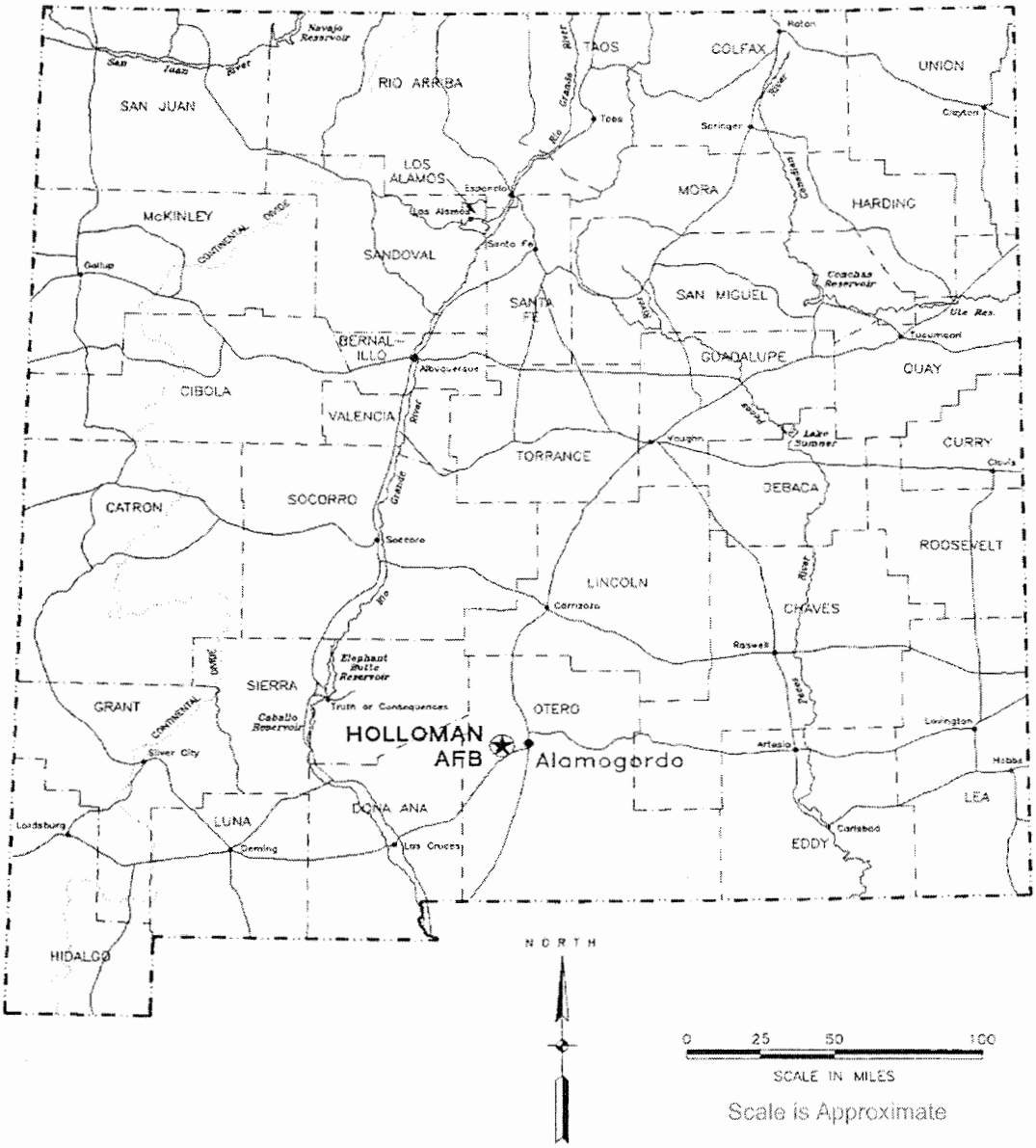
COPEC = chemical of potential ecological concern

ESQ = estimated screening quotient

-- = not applicable

< = less than

FIGURES



DP-63 Remedial Investigation Report

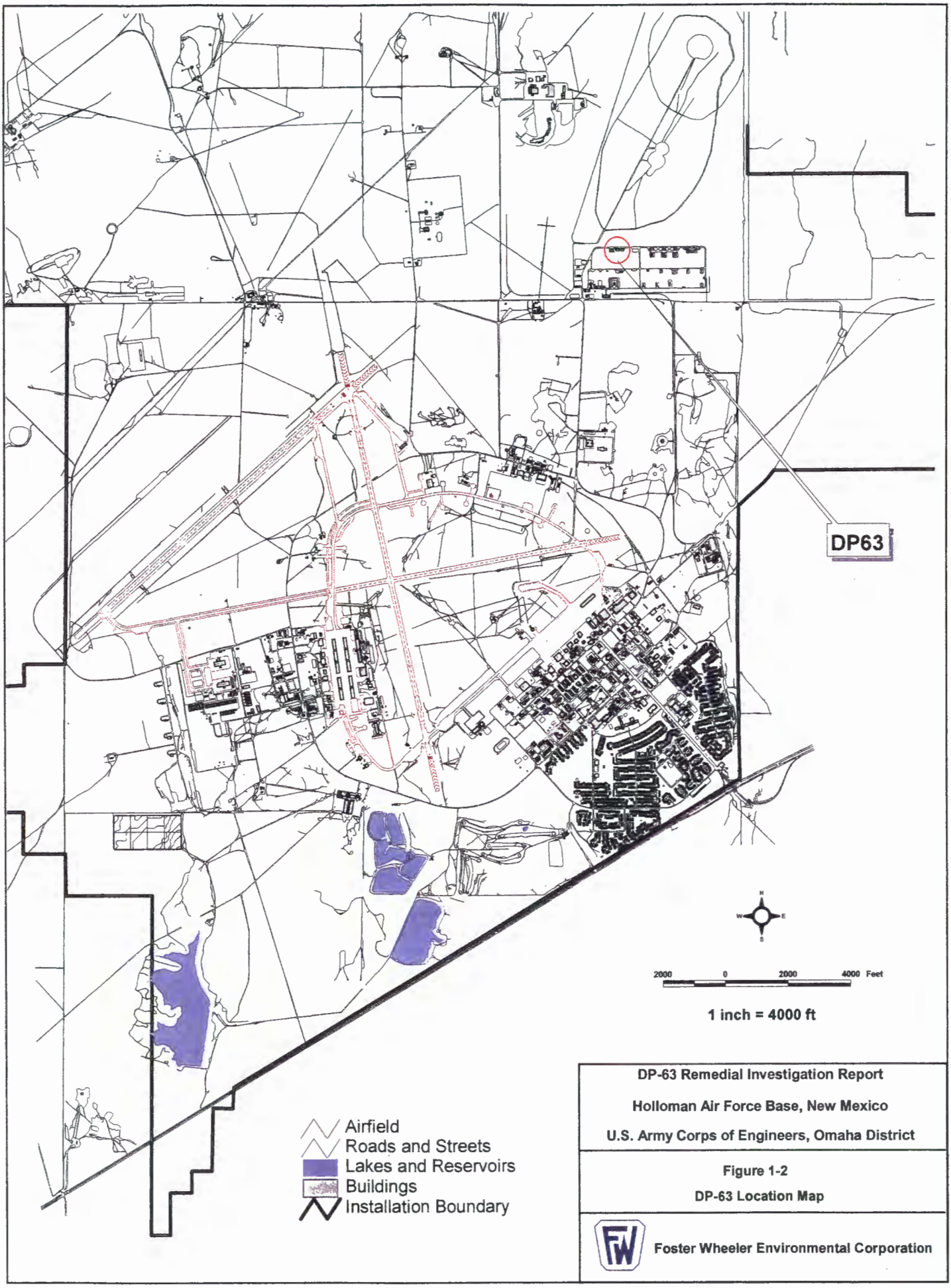
Holloman Air Force Base, New Mexico

U.S. Army Corps of Engineers, Omaha District

Figure 1-1

Location of Holloman Air Force Base

FOSTER WHEELER ENVIRONMENTAL CORPORATION



DP-63 Remedial Investigation Report

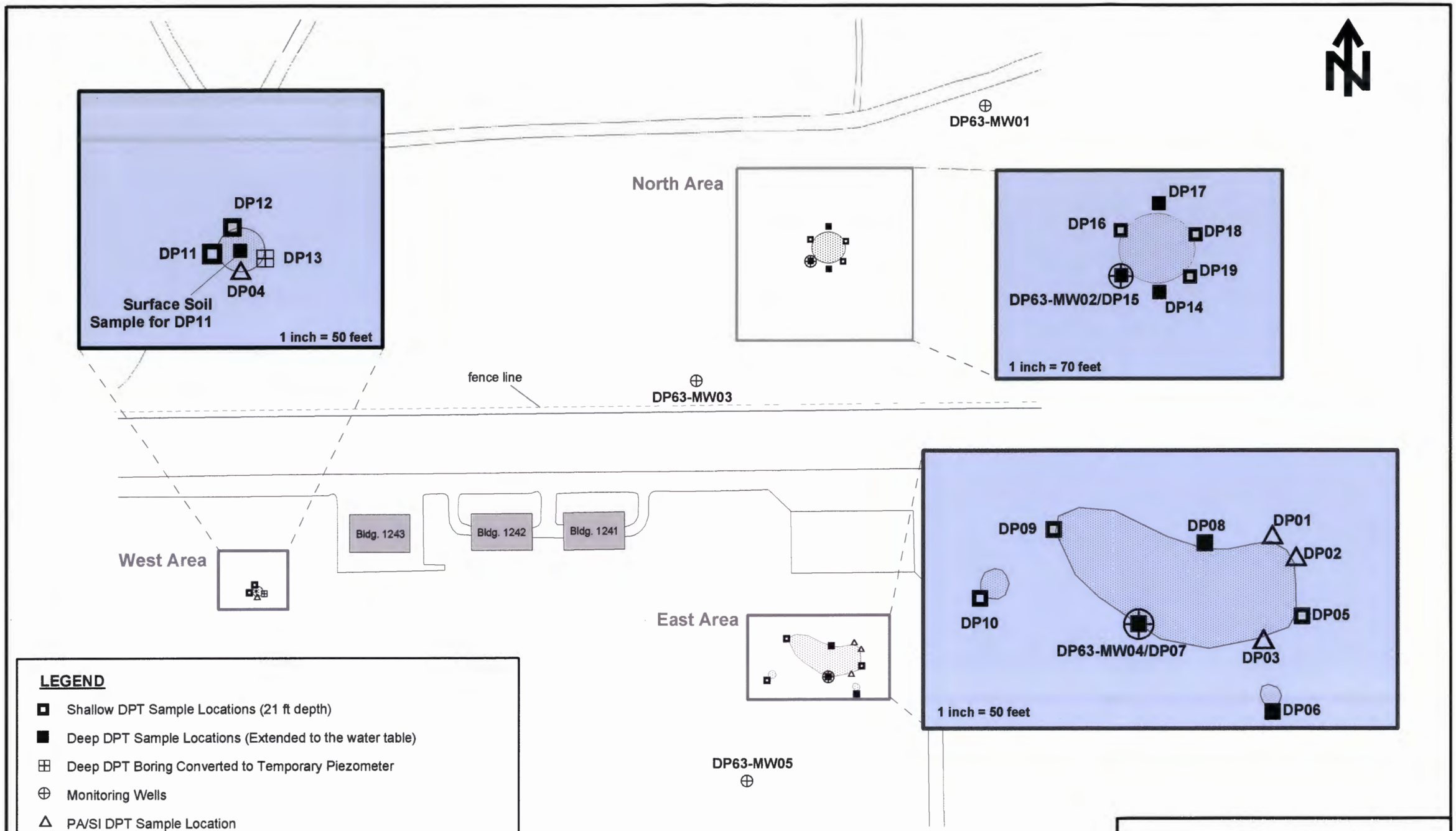
Holloman Air Force Base, New Mexico

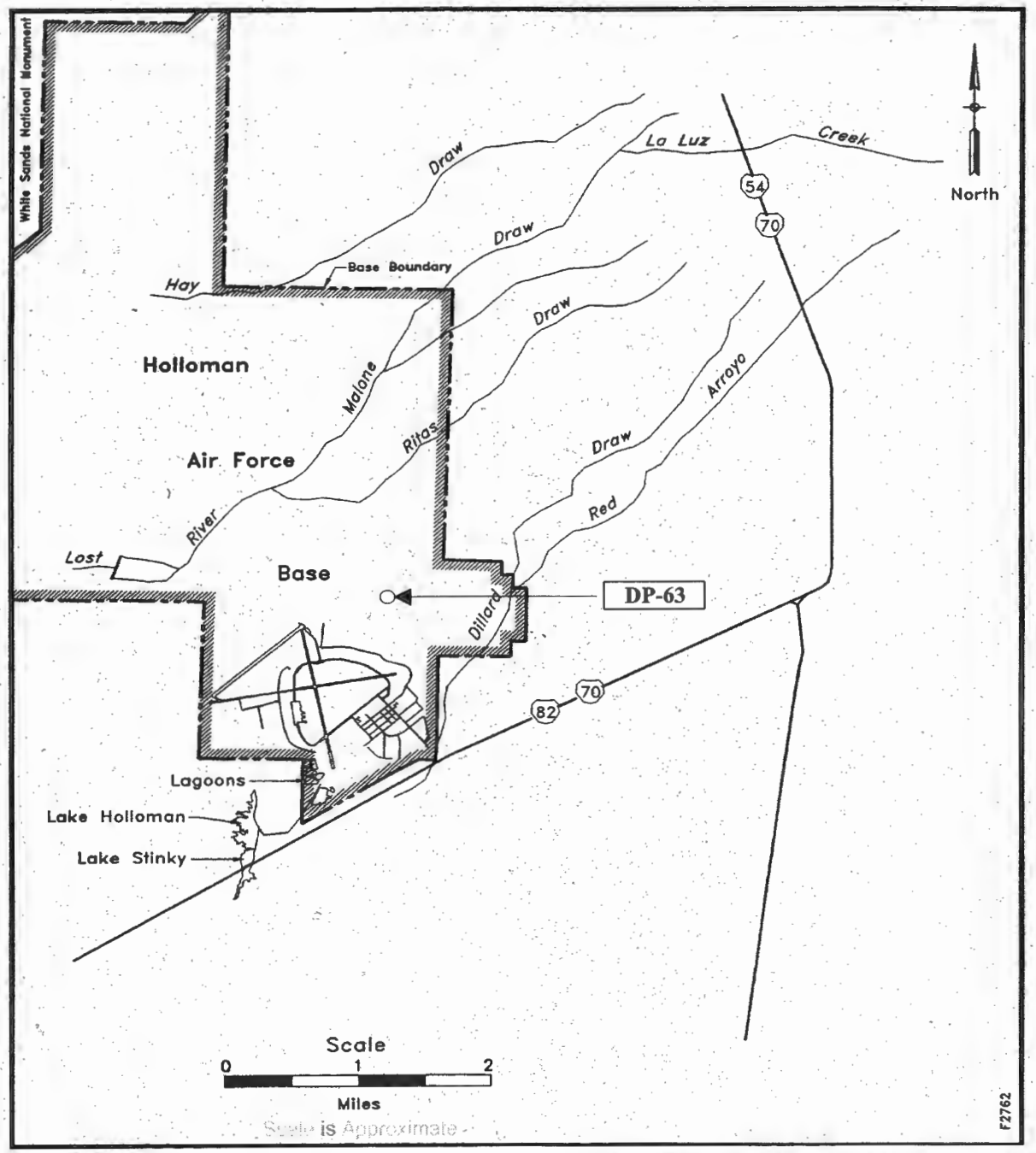
U.S. Army Corps of Engineers, Omaha District

Figure 1-2

DP-63 Location Map

Foster Wheeler Environmental Corporation


DP63-MW01
North Area
DP12
DP11
DP13
DP04
Surface Soil
Sample for DP11
1 inch = 50 feet
DP17
DP16
DP18
DP19
DP63-MW02/DP15
DP14
1 inch = 70 feet
fence line
DP63-MW03
Bldg. 1243
Bldg. 1242
Bldg. 1241
West Area
East Area
DP09
DP08
DP01
DP02
DP10
DP05
DP63-MW04/DP07
DP03
DP06
1 inch = 50 feet
DP63-MW05
LEGEND
Shallow DPT Sample Locations (21 ft depth)
Deep DPT Sample Locations (Extended to the water table)
Deep DPT Boring Converted to Temporary Piezometer
Monitoring Wells
PA/SI DPT Sample Location
Geophysical Anomaly Identifed During the PA/SI
Note: Monitoring wells were completed in deep DPT borings in the East and North Areas at DP07 and DP15, respectively.
Surface soil samples were collected at all DPT locations (15 total) except for DP11 which was collected in the center of the geophysical anomaly (see map)
Scale: 1 inch = 150 ft
DP-63 Remedial Investigation Report
Holloman Air Force Base, New Mexico
Figure 2-1
DP-63 Site Investigation Map
FOSTER WHEELER ENVIRONMENTAL CORPORATION



DP-63 Remedial Investigation Report

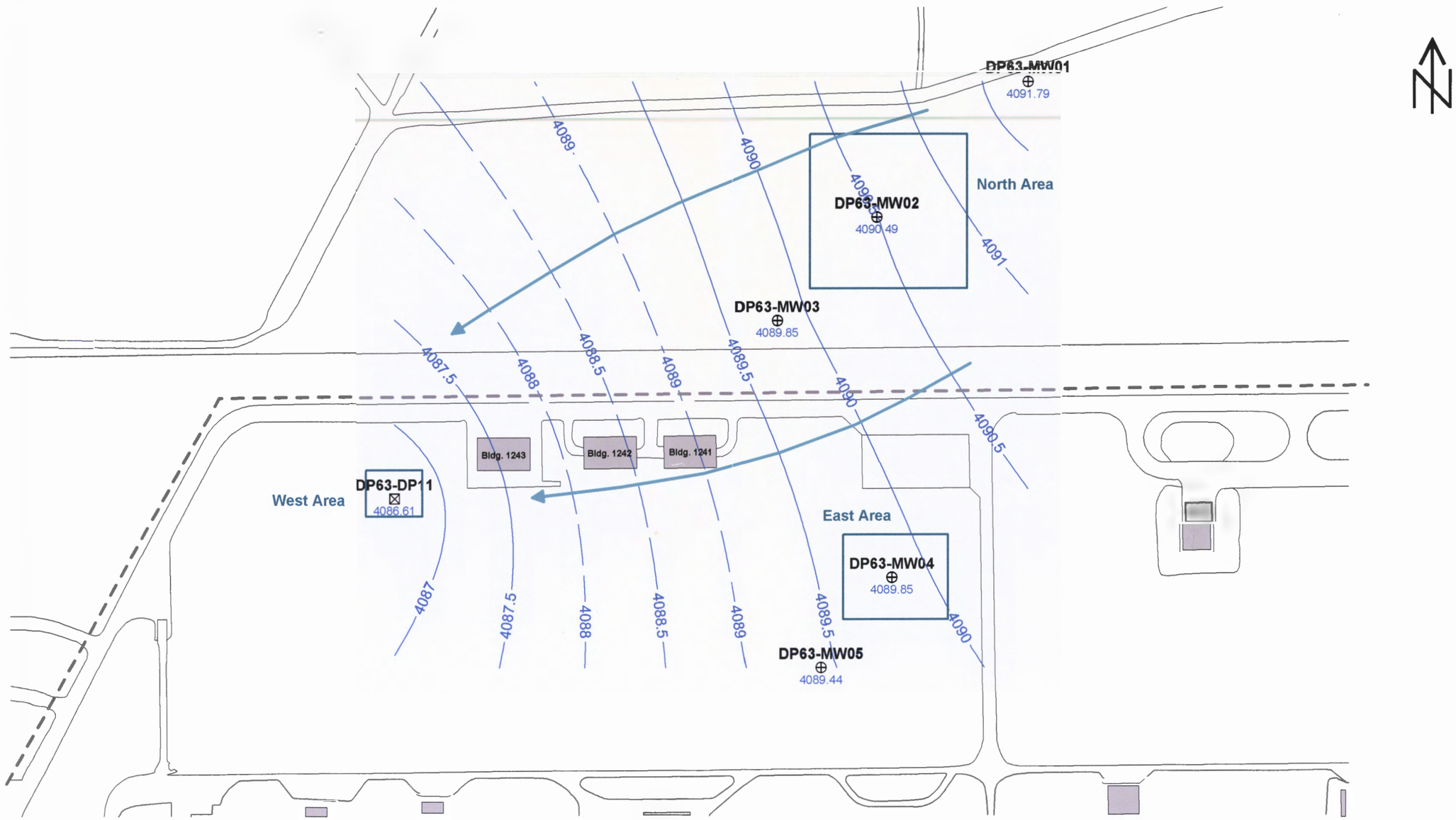
Holloman Air Force Base, New Mexico

U.S. Army Corps of Engineers, Omaha District

Figure 3-1

Drainages in the Vicinity of Holloman Air Force Base

FOSTER WHEELER ENVIRONMENTAL CORPORATION



LEGEND

⊕ Monitoring Well Locations

⊠ Temporary Piezometer Location

4090 Groundwater Elevation Contour (Dashed Where Inferred)

Groundwater Flow Direction

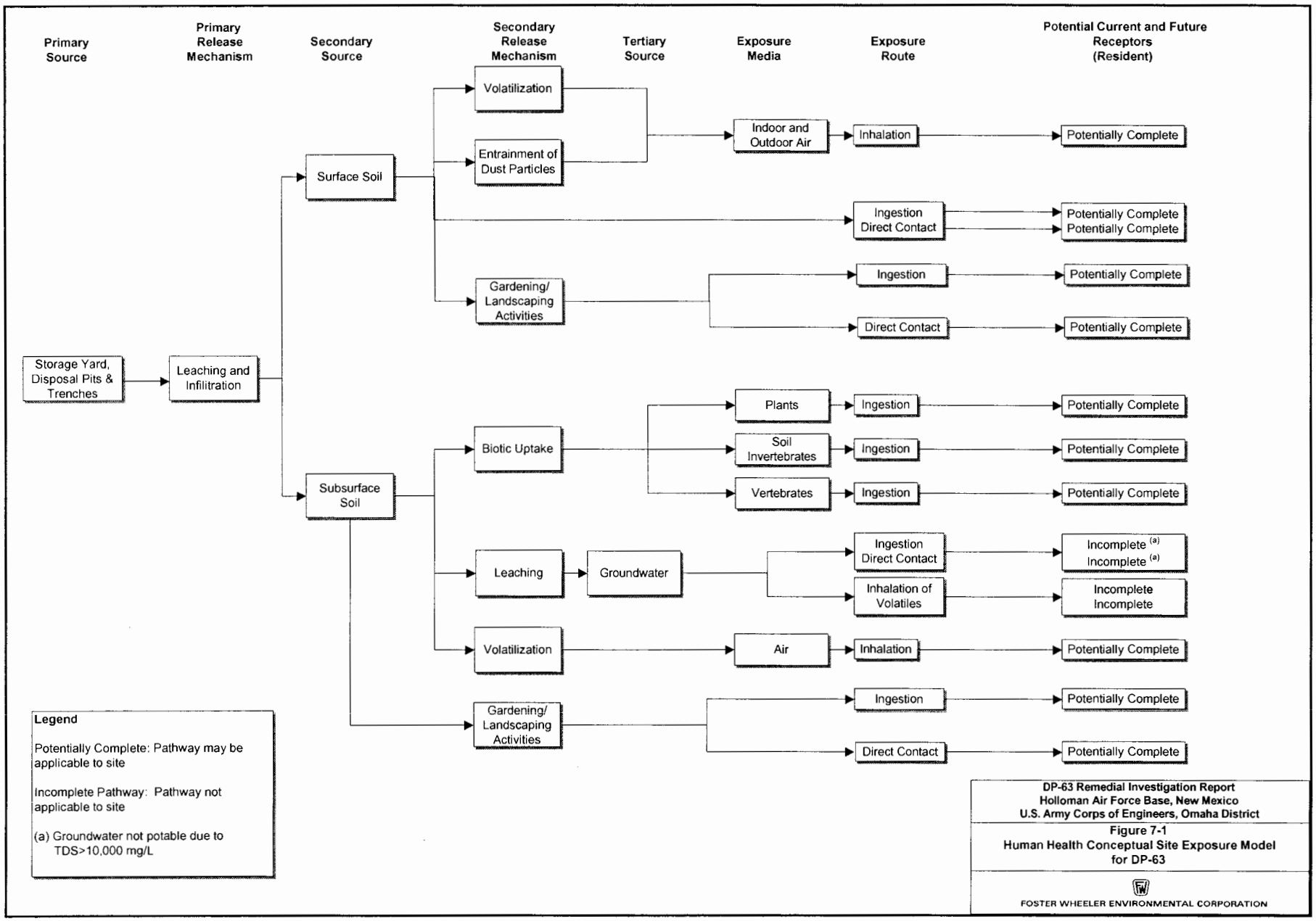
0 25 50 75 100

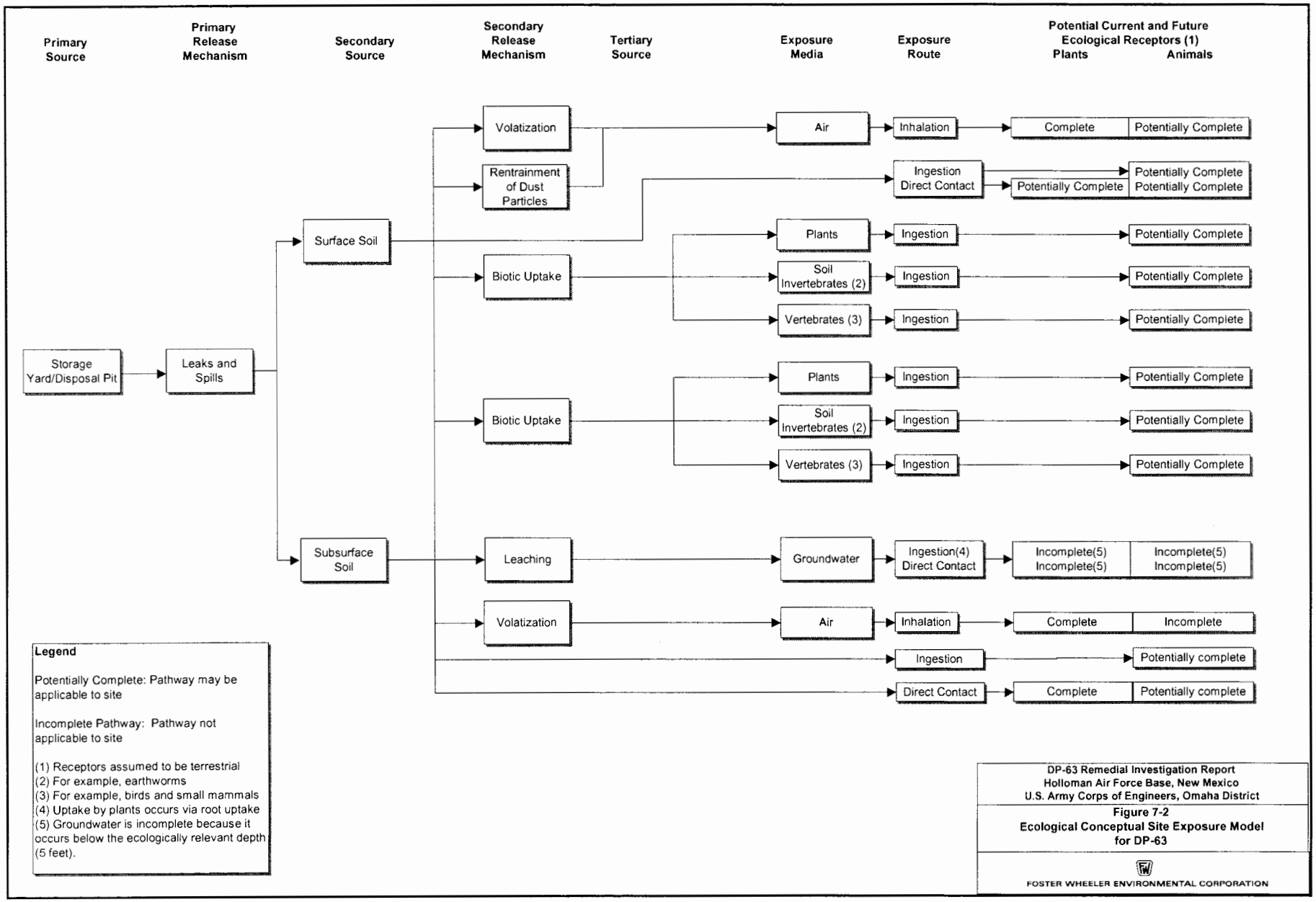
Remedial Investigation of DP-63
Holloman Air Force Base, New Mexico

Figure 3-2

Groundwater Potentiometric Surface Map, September 2002

FOSTER WHEELER ENVIRONMENTAL CORPORATION


Primary Source
Primary Release Mechanism
Secondary Source
Secondary Release Mechanism
Tertiary Source
Exposure Media
Exposure Route
Potential Current and Future Receptors (Resident)
Storage Yard, Disposal Pits & Trenches
Leaching and Infiltration
Surface Soil
Subsurface Soil
Volatilization
Entrainment of Dust Particles
Indoor and Outdoor Air
Inhalation
Potentially Complete
Ingestion
Direct Contact
Potentially Complete
Potentially Complete
Gardening/ Landscaping Activities
Ingestion
Potentially Complete
Direct Contact
Potentially Complete
Biotic Uptake
Plants
Ingestion
Potentially Complete
Soil Invertebrates
Ingestion
Potentially Complete
Vertebrates
Ingestion
Potentially Complete
Leaching
Groundwater
Ingestion
Direct Contact
Incomplete (a)
Incomplete (a)
Inhalation of Volatiles
Incomplete
Incomplete
Volatilization
Air
Inhalation
Potentially Complete
Gardening/ Landscaping Activities
Ingestion
Potentially Complete
Direct Contact
Potentially Complete
Legend
Potentially Complete: Pathway may be applicable to site
Incomplete Pathway: Pathway not applicable to site
(a) Groundwater not potable due to TDS>10,000 mg/L
DP-63 Remedial Investigation Report
Holloman Air Force Base, New Mexico
U.S. Army Corps of Engineers, Omaha District
Figure 7-1
Human Health Conceptual Site Exposure Model for DP-63
FOSTER WHEELER ENVIRONMENTAL CORPORATION


Primary Source
Primary Release Mechanism
Secondary Source
Secondary Release Mechanism
Tertiary Source
Exposure Media
Exposure Route
Potential Current and Future Ecological Receptors (1)
Plants
Animals
Storage Yard/Disposal Pit
Leaks and Spills
Surface Soil
Subsurface Soil
Volatization
Rentrainment of Dust Particles
Biotic Uptake
Biotic Uptake
Leaching
Volatization
Air
Inhalation
Complete
Potentially Complete
Ingestion
Direct Contact
Potentially Complete
Potentially Complete
Potentially Complete
Plants
Soil Invertebrates (2)
Vertebrates (3)
Ingestion
Potentially Complete
Plants
Soil Invertebrates (2)
Vertebrates (3)
Ingestion
Potentially Complete
Groundwater
Ingestion(4)
Direct Contact
Incomplete(5)
Incomplete(5)
Incomplete(5)
Incomplete(5)
Air
Inhalation
Complete
Incomplete
Ingestion
Potentially complete
Direct Contact
Complete
Potentially complete
Legend
Potentially Complete: Pathway may be applicable to site
Incomplete Pathway: Pathway not applicable to site
(1) Receptors assumed to be terrestrial
(2) For example, earthworms
(3) For example, birds and small mammals
(4) Uptake by plants occurs via root uptake
(5) Groundwater is incomplete because it occurs below the ecologically relevant depth (5 feet).
DP-63 Remedial Investigation Report
Holloman Air Force Base, New Mexico
U.S. Army Corps of Engineers, Omaha District
Figure 7-2
Ecological Conceptual Site Exposure Model for DP-63
FOSTER WHEELER ENVIRONMENTAL CORPORATION

APPENDIX A

DATA VALIDATION REPORT AND ANALYTICAL DATA

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G053

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/09/2002
Report Date:	08/06/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP06S0401	DP63DP08S0901	DP63DP10S0901	
DP63DP06S0901	DP63DP09S0401	DP63DP10S2001	
DP63DP07S0401	DP63DP09S0901	DP63DP11S0401	
DP63DP07S0901	DP63DP09S2001	DP63DP11S0901	
DP63DP08S0401	DP63DP10S0401		

Validation Summary

1. Completeness

The data package contained all required documentation.

2. Holding Time

All technical holding times were met except for the cyanide analysis for sample DP63DP09S0401. Sample results were qualified as estimated.

3. Method Blanks

No analytes were detected in the method blanks.

4. Surrogate Spikes

Surrogate recoveries were within criteria.

5. Internal Standards

Samples DP63DP09S0401 and DP63DP10S2001 were reanalyzed for VOCs due to low internal standard recoveries in the initial analysis. Results from the reanalysis were within criteria for internal standards and holding time. Internal standard criteria were met for SVOC analyses.

6. Matrix Spike/Matrix Spike Duplicates (MS/MSD)

No MS/MSD samples were analyzed for the VOCs with this sample batch. In the metals analyses, MS/MSD recoveries for aluminum and calcium did not meet QC criteria. Sample results for these analytes were qualified as estimated. All other MS/MSD recoveries were within criteria.

7. Laboratory Control Samples (LCS)

All LCS recoveries were within criteria.

8. Duplicates

No field duplicate samples were reported with this sample batch.

9. Additional Comments

In the metals analyses, the serial dilution results for iron and zinc did not meet criteria. Results for these analytes in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP06S0401	Aluminum	J/UJ	MS/MSD Recoveries
DP63DP06S0901	Calcium		
DP63DP07S0401			
DP63DP07S0901			
DP63DP08S0401			
DP63DP08S0901			
DP63DP09S0401			
DP63DP09S0901			
DP63DP09S2001			
DP63DP10S0401			
DP63DP10S0901			
DP63DP10S2001			
DP63DP11S0401			
DP63DP11S0901			
DP63DP06S0401	Iron	J/UJ	Serial Dilution
DP63DP06S0901	Zinc		
DP63DP07S0401			
DP63DP07S0901			
DP63DP08S0401			
DP63DP08S0901			
DP63DP09S0401			
DP63DP09S0901			
DP63DP09S2001			
DP63DP10S0401			
DP63DP10S0901			
DP63DP10S2001			

DP63DP11S0401 DP63DP11S0901			
DP63DP09S0401	Cyanide	J	Holding Time

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G053

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/09/2002
Report Date:	08/06/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP06S0401	DP63DP08S0901	DP63DP10S0901	
DP63DP06S0901	DP63DP09S0401	DP63DP10S2001	
DP63DP07S0401	DP63DP09S0901	DP63DP11S0401	
DP63DP07S0901	DP63DP09S2001	DP63DP11S0901	
DP63DP08S0401	DP63DP10S0401		

Validation Summary

1. Completeness

The data package contained all required documentation.

2. Holding Time

All technical holding times were met except for the cyanide analysis for sample DP63DP09S0401. Sample results were qualified as estimated.

3. Method Blanks

No analytes were detected in the method blanks.

4. Surrogate Spikes

Surrogate recoveries were within criteria.

5. Internal Standards

Samples DP63DP09S0401 and DP63DP10S2001 were reanalyzed for VOCs due to low internal standard recoveries in the initial analysis. Results from the reanalysis were within criteria for internal standards and holding time. Internal standard criteria were met for SVOC analyses.

6. Matrix Spike/Matrix Spike Duplicates (MS/MSD)

No MS/MSD samples were analyzed for the VOCs with this sample batch. In the metals analyses, MS/MSD recoveries for aluminum and calcium did not meet QC criteria. Sample results for these analytes were qualified as estimated. All other MS/MSD recoveries were within criteria.

7. Laboratory Control Samples (LCS)

All LCS recoveries were within criteria.

8. Duplicates

No field duplicate samples were reported with this sample batch.

9. Additional Comments

In the metals analyses, the serial dilution results for iron and zinc did not meet criteria. Results for these analytes in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP06S0401	Aluminum	J/UJ	MS/MSD Recoveries
DP63DP06S0901	Calcium		
DP63DP07S0401			
DP63DP07S0901			
DP63DP08S0401			
DP63DP08S0901			
DP63DP09S0401			
DP63DP09S0901			
DP63DP09S2001			
DP63DP10S0401			
DP63DP10S0901			
DP63DP10S2001			
DP63DP11S0401			
DP63DP11S0901			
DP63DP06S0401	Iron	J/UJ	Serial Dilution
DP63DP06S0901	Zinc		
DP63DP07S0401			
DP63DP07S0901			
DP63DP08S0401			
DP63DP08S0901			
DP63DP09S0401			
DP63DP09S0901			
DP63DP09S2001			
DP63DP10S0401			
DP63DP10S0901			
DP63DP10S2001			

DP63DP11S0401 DP63DP11S0901			
DP63DP09S0401	Cyanide	J	Holding Time

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G054

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/08/2002 and 07/09/2002
Report Date:	08/08/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63SS01S0001	DP63DP05S2001	DP63SS03S0001	DP63SS07S0002
DP63SS02S0001	DP63DP11S2001	DP63SS04S0001	DP63SS08S0001
DP63SS02S0002	DP63DP12S0401	DP63SS05S0001	DP63SS09S0001
DP63DP05S0401	DP63DP12S0901	DP63SS06S0001	
DP63DP05S0901	DP63DP12S2001	DP63SS07S0001	

Validation Summary

1. Completeness

The data package contained all required documentation.

2. Holding Time

All technical holding times were met.

3. Method Blanks

No analytes were detected in the method blanks.

4. Surrogate Spikes

Surrogate recoveries were within criteria for the VOCs. Sample DP63SS04S0001 was reanalyzed for SVOCs due to low surrogate recovery in the initial analysis. Surrogate recoveries were acceptable in the reanalysis. Surrogate recoveries were above criteria for the TPH (diesel) analysis for sample DP63DP12S2001. Sample results were qualified as estimated.

5. Internal Standards

Samples DP63DP11S2001, DP63DP12S2001, DP63SS03S0001, DP63SS04S0001, and DP63SS05S0001 were reanalyzed for VOCs due to low internal standard recoveries in the initial analysis. Results from the reanalysis were within criteria for DP63DP11S2001, DP63DP12S2001 but were still below criteria for DP63SS03S0001, DP63SS04S0001, and DP63SS05S0001. Results for VOCs in the 3 affected samples (DP63SS03S0001, DP63SS04S0001, and DP63SS 05S0001) were qualified as estimated. Internal standard criteria were met for SVOC analyses.

6. Matrix Spike/Matrix Spike Duplicates (MS/MSD)

In the explosives analyses, MS/MSD recoveries for 1,3,5-trinitrobenzene and tetryl were below QC criteria. Sample results did not require qualification. In the metals analyses, MS/MSD recoveries for aluminum and calcium did not meet QC criteria. Sample results for these analytes were qualified as estimated. All other MS/MSD recoveries were within criteria.

7. Laboratory Control Samples (LCS)

All LCS recoveries were within criteria.

8. Duplicates

One field duplicate sample (DP63SS02S0001 and DP63SS02S0002) was reported with this sample batch. Field duplicate results for lead were outside criteria and were qualified as estimated in the original and duplicate samples.

9. Additional Comments

In the metals analyses, the serial dilution results for sodium did not meet criteria. Results for sodium in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63SS03S0001 DP63SS04S0001 DP63SS05S0001	All VOC analytes	J/UJ	Internal Standards (Low)
DP63DP12S2001	Diesel Motor Oil	J	Surrogate Recoveries (High)
DP63SS02S0001 DP63SS02S0002	Lead	J	Field Duplicate
DP63SS01S0001 DP63SS02S0001 DP63SS02S0001 DP63DP05S0401 DP63DP05S0901 DP63DP05S2001 DP63DP11S2001 DP63DP12S0401 DP63DP12S0901 DP63DP12S2001 DP63SS03S0001 DP63SS04S0001 DP63SS05S0001 DP63SS06S0001	Aluminum Calcium	J/UJ	MS/MSD Recoveries

DP63SS07S0001 DP63SS07S0002 DP63SS08S0001 DP63SS09S0001			
DP63SS01S0001 DP63SS02S0001 DP63SS02S0001 DP63DP05S0401 DP63DP05S0901 DP63DP05S2001 DP63DP11S2001 DP63DP12S0401 DP63DP12S0901 DP63DP12S2001 DP63SS03S0001 DP63SS04S0001 DP63SS05S0001 DP63SS06S0001 DP63SS07S0001 DP63SS07S0002 DP63SS08S0001 DP63SS09S0001	Sodium	J/UJ	Serial Dilution

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G058

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/10/2002
Report Date:	08/14/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP13S0401	DP63DP16S0401	DP63DP18S0401	DP63DP19S2001	DP63SS14S0001
DP63DP13S0901	DP63DP06S0901	DP63DP08S0901	DP63DP19S2002	DP63SS15S0001
DP63DP14S0401	DP63DP16S2001	DP63DP18S2001	DP63SS10S0001	
DP63DP14S0901	DP63DP16S2002	DP63DP18S2002	DP63SS11S0001	
DP63DP15S0401	DP63DP17S0401	DP63DP19S0401	DP63SS12S0001	
DP63DP15S0901	DP63DP07S0901	DP63DP19S0901	DP63SS13S0001	

Validation Summary

1. Completeness

The data package contained all required documentation.

2. Holding Time

All technical holding times were met.

3. Method Blanks

No analytes were detected in the method blanks.

4. Surrogate Spikes

Samples DP63DP19S2001, DP63SS10S0001, DP63SS11S0001, DP63SS12S0001, and DP63SS13S0001 were reanalyzed for VOCs due to high surrogate recoveries in the initial analysis. Surrogate recoveries were acceptable in the reanalysis.

5. Internal Standards

Samples DP63DP19S2001, DP63SS10S0001, DP63SS11S0001, DP63SS12S0001, DP63SS13S0001, DP63DP14S0401, DP63DP14S0901, DP63DP19S2002, DP63DP18S0901, DP63DP18S2001, DP63DP18S2002, and DP63DP19D0401 were reanalyzed for VOCs due to low internal standard recoveries in the initial analysis. Results from the reanalyses were within criteria. Internal standard criteria were met for SVOC analyses.

6. Matrix Spike/Matrix Spike Duplicates (MS/MSD)

In the metals analyses, MS/MSD recoveries for aluminum did not meet QC criteria. Sample results for aluminum were qualified as estimated. All other MS/MSD recoveries were within criteria.

7. Laboratory Control Samples (LCS)

All LCS recoveries were within criteria.

8. Duplicates

Field duplicate samples were reported with this sample batch. Sample duplicate pairs included: DP63DP16S2001 and DP63DP16S2002; DP63DP18S2001 and DP63DP18S2002; and DP63DP19S2001 and DP63DP19S2002. Field duplicate results for TPH (gasoline) were not within criteria for samples DP63DP16S2001 and DP63DP16S2002, and results were qualified as estimated.

9. Additional Comments

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP16S2001 DP63DP16S2002	Gasoline	J	Field Duplicate
DP63DP13S0401 DP63DP13S0901 DP63DP14S0401 DP63DP14S0901 DP63DP15S0401 DP63DP15S0901 DP63DP16S0401 DP63DP06S0901 DP63DP16S2001 DP63DP16S2002 DP63DP17S0401 DP63DP07S0901 DP63DP18S0401 DP63DP08S0901 DP63DP18S2001 DP63DP18S2002 DP63DP19S0401 DP63DP19S0901 DP63DP19S2001 DP63DP19S2002 DP63SS10S0001 DP63SS11S0001	Aluminum	J/UJ	MS/MSD Recoveries

DP63SS12S0001 DP63SS13S0001 DP63SS14S0001 DP63SS15S0001			

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G068

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/11/2002 and 07/12/2002
Report Date:	08/14/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP14S2401	DP63DP15S2401		
DP63DP14S4701	DP63DP15S4701		

Validation Summary

1. **Completeness**

   The data package contained all required documentation.

2. **Holding Time**

   All technical holding times were met.

3. **Method Blanks**

   No analytes were detected in the method blanks.

4. **Surrogate Spikes**

   Surrogate recoveries were within criteria.

5. **Internal Standards**

   Internal standard criteria were met for VOC and SVOC analyses.

6. **Matrix Spike/Matrix Spike Duplicates (MS/MSD)**

   No MS/MSD samples were analyzed for the VOCs, TPH (gasoline), TPH (diesel), metals, mercury, or cyanide with this sample batch.

7. **Laboratory Control Samples (LCS)**

   All LCS recoveries were within criteria.

8. **Duplicates**

   No field duplicate samples were reported with this sample batch.

9. **Additional Comments**

   In the metals analyses, the serial dilution result for sodium did not meet criteria. Results for sodium in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP14S2401 DP63DP14S4701 DP63DP15S2401 DP63DP15S4701	Sodium	J/UJ	Serial Dilution

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G090

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/12/2002
Report Date:	08/14/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP17S2401			
DP63DP17S4701			

Validation Summary

1. Completeness

The data package contained all required documentation.

2. Holding Time

All technical holding times were met.

3. Method Blanks

No analytes were detected in the method blanks.

4. Surrogate Spikes

Surrogate recoveries were within criteria.

5. Internal Standards

Internal standard criteria were met for VOC analyses. Sample DP63DP17S2401 was reanalyzed for SVOCs due to high internal standard recovery in the initial analysis. Results from the reanalysis were within criteria for internal standards and holding time.

6. Matrix Spike/Matrix Spike Duplicates (MS/MSD)

No MS/MSD samples were analyzed with this sample batch.

7. Laboratory Control Samples (LCS)

All LCS recoveries were within criteria.

8. Duplicates

No field duplicate samples were reported with this sample batch.

9. Additional Comments

In the metals analyses, the serial dilution results for aluminum, barium, and sodium did not meet criteria. Results for these analytes in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP17S2401 DP63DP17S4701	Aluminum Barium Sodium	J/UJ	Serial dilution

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02G106

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	07/15/2002 and 07/16/2002
Report Date:	08/13/2002
Matrix:	Soil
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
Total Petroleum Hydrocarbons (TPH) - Gasoline	SW-846 M8015
Total Petroleum Hydrocarbons TPH) - Diesel	SW-846 M8015
TAL Metals & Mercury	SW-846 6010B & 7471A
Explosives	SW-846 8330
Cyanide	SW-846 9010B/9014A

Sample Identification:

DP63DP08S2401	DP63DP07S2402		
DP63DP08S4401	DP63DP07S4301		
DP63DP06S2401	DP63DP07S4302		
DP63DP06S4601	DP63DP13S2401		
DP63DP07S2401	DP63DP13S3901		

Validation Summary

1. **Completeness**

   The data package contained all required documentation.

2. **Holding Time**

   All technical holding times were met.

3. **Method Blanks**

   No analytes were detected in the method blanks.

4. **Surrogate Spikes**

   Surrogate recoveries were within criteria.

5. **Internal Standards**

   Internal standard criteria were met for VOC and SVOC analyses.

6. **Matrix Spike/Matrix Spike Duplicates (MS/MSD)**

   No MS/MSD samples were analyzed for the VOCs or the TPHs (gasoline) with this sample batch. In the metals analyses, MS/MSD sample recoveries were outside QC criteria for aluminum, antimony, calcium, iron, and manganese. Sample results for these analytes were qualified as estimated.

7. **Laboratory Control Samples (LCS)**

   All LCS recoveries were within criteria.

8. **Duplicates**

   Field duplicate samples (DP63DP07S2401 and DP63DP07S2402) (DP63DP07S4301and DP63DP07S4302) were reported with this sample batch. In the SVOC and metals analyses, results for field duplicate samples DP63DP07S2401 and DP63DP07S2402 did not meet QC criteria. Affected analytes were qualified as estimated in both samples. Results for field duplicate samples DP63DP07S4301and DP63DP07S4302 met QC criteria for all analyses. In the metals analysis, the laboratory duplicate recoveries were within criteria.

9. **Additional Comments**

   In the metals analyses, the serial dilution results for potassium did not meet criteria. Results for potassium in all samples were qualified as estimated.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification
DP63DP07S2401	Diethylphthalate	J	Field duplicate result
DP63DP07S2402	Diethylphthalate	UJ	Field duplicate result
DP63DP07S2401 DP63DP07S2402	Sodium	J	Field duplicate result
DP63DP08S2401 DP63DP08S4401 DP63DP06S2401 DP63DP06S4601 DP63DP07S2401 DP63DP07S2402 DP63DP07S4301 DP63DP07S4302 DP63DP13S2401 DP63DP13S3901	Aluminum Antimony Calcium Iron Manganese	J/UJ	MS/MSD recoveries
DP63DP08S2401 DP63DP08S4401 DP63DP06S2401 DP63DP06S4601 DP63DP07S2401 DP63DP07S2402 DP63DP07S4301 DP63DP07S4302 DP63DP13S2401 DP63DP13S3901	Potassium	J/UJ	Serial dilution

Foster Wheeler Environmental Corporation
Data Validation Report

Sample Delivery Group 02I090

Project/Site Name:	Holloman AFB, RI/FS DP63
Collection Date:	09/10/2002
Report Date:	10/02/2002
Matrix:	Groundwater
Validation Level:	Project-Specific
Validation Guidelines:	Project-Specific
Laboratory:	EMAX Laboratories, Inc. – Torrance, CA

Analytical Parameter:	Analysis Method:
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C
TAL Metals & Mercury	SW-846 6010B & 7470A
Explosives	SW-846 8330
Total Dissolved Solids (TDS)	EPA 160.1

Sample Identification:

DP63-MW01	DP63-MW0102		
DP63-MW02	Trip Blank*		
DP63-MW03			
DP63-MW04			
DP63-MW05			

* - VOC analysis only

Validation Summary

1. **Completeness**

   The data package contained all required documentation.

2. **Holding Time**

   All technical holding times were met.

3. **Method Blanks**

   No analytes were detected in the method blanks.

4. **Surrogate Spikes**

   Surrogate recoveries were within criteria.

5. **Internal Standards**

   Internal standard criteria were met for the VOC and SVOC analyses.

6. **Matrix Spike/Matrix Spike Duplicates (MS/MSD)**

   No MS/MSD samples were analyzed with this sample batch.

7. **Laboratory Control Samples (LCS)**

   All LCS recoveries were within criteria except for one RPD in the VOC LCS/LCSD. The LCS/LCSD recoveries were within criteria, and sample results were not qualified based on the RPD result.

8. **Duplicates**

   Field duplicate samples (DP63-MW01 and DP63-MW0102) were reported with this sample batch. Field duplicate results were within criteria.

9. **Additional Comments**

   No analytes were detected in the trip blank.

Qualifiers used during validation

J	Indicates an estimated value.
R	Quality control indicates the data is not usable.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	Indicates the compound or analyte was analyzed for but not detected substantially above the level reported in laboratory or field blanks.

Data Qualification Summary

Sample Identification	Analyte	Qualifiers Applied	Reason for Qualification

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	9/10/2002	E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	20400	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	=	1.67	MG/L	
			ARSENIC	TR	0.0042	MG/L	
			BARIUM	=	0.0342	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	737	MG/L	
			CADMIUM	ND	0	MG/L	
			COBALT	ND	0	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	=	0.0109	MG/L	
			IRON	=	1.63	MG/L	
			POTASSIUM	=	11.8	MG/L	
			MAGNESIUM	=	1170	MG/L	
			MANGANESE	=	0.604	MG/L	
			SODIUM	=	3570	MG/L	
			NICKEL	TR	0.0153	MG/L	
			LEAD	ND	0	MG/L	
			ANTIMONY	ND	0	MG/L	
			SELENIUM	ND	0	MG/L	
			THALLIUM	ND	0	MG/L	
			VANADIUM	=	0.0136	MG/L	
			ZINC	=	0.0315	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	23	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	ND	0	UG/L	
			TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	ND	0	UG/L	
			CHLOROBENZENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	9/10/2002	SW8260B	CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	
			2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	=	1.4	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	0.49	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	TR	0.2	UG/L	
		SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

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Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	9/10/2002	SW8270C	ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	
			BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	
			2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	
			DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	
			DI-n-BUTYL PHTHALATE	ND	0	UG/L	
			DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	9/10/2002	SW8270C	2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	9/10/2002	SW8330	2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	
			TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
	1/22/2003	SW8260B	ACETONE	ND	0	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	ND	0	UG/L	
			TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	ND	0	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW01	1/22/2003	SW8260B	2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	ND	0	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/L	
DP63-MW0102	9/10/2002	E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	21200	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	=	1.7	MG/L	
			ARSENIC	ND	0	MG/L	
			BARIUM	=	0.0372	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	732	MG/L	
			CADMIUM	ND	0	MG/L	
			COBALT	ND	0	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	TR	0.0075	MG/L	
			IRON	=	1.7	MG/L	
			POTASSIUM	=	11.1	MG/L	
			MAGNESIUM	=	1150	MG/L	
			MANGANESE	=	0.591	MG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW0102	9/10/2002	SW6010B	SODIUM	=	3500	MG/L	
			NICKEL	TR	0.0151	MG/L	
			LEAD	ND	0	MG/L	
			ANTIMONY	ND	0	MG/L	
			SELENIUM	ND	0	MG/L	
			THALLIUM	ND	0	MG/L	
			VANADIUM	=	0.0158	MG/L	
			ZINC	=	0.0237	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	29	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	ND	0	UG/L	
			TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	TR	0.26	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	
			2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW0102	9/10/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	=	1.5	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	0.49	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	TR	0.21	UG/L	
		SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	
			ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	
			BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW0102	9/10/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	
			DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	
			DI-n-BUTYL PHTHALATE	ND	0	UG/L	
			DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW0102	9/10/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	
			TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
DP63-MW02		E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	17600	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	=	1.4	MG/L	
			ARSENIC	TR	0.0045	MG/L	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW6010B	BARIUM	=	0.062	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	1030	MG/L	
			CADMIUM	ND	0	MG/L	
			COBALT	=	0.0222	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	=	0.0121	MG/L	
			IRON	=	1.48	MG/L	
			POTASSIUM	=	13.7	MG/L	
			MAGNESIUM	=	756	MG/L	
			MANGANESE	=	2.2	MG/L	
			SODIUM	=	3230	MG/L	
			NICKEL	TR	0.0169	MG/L	
			LEAD	ND	0	MG/L	
			ANTIMONY	ND	0	MG/L	
			SELENIUM	ND	0	MG/L	
			THALLIUM	ND	0	MG/L	
			VANADIUM	=	0.0114	MG/L	
			ZINC	=	0.0371	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	92	UG/L	
			ACETONE	>	94	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	=	15	UG/L	
			BENZENE	=	17	UG/L	
			TOLUENE	ND	0	UG/L	
			TOLUENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW8260B	CARBON DISULFIDE	ND	0	UG/L	
			CARBON DISULFIDE	TR	0.32	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	
			ETHYLBENZENE	TR	0.47	UG/L	
			2-HEXANONE	ND	0	UG/L	
			2-HEXANONE	ND	0	UG/L	

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EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW8260B	METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	TR	4.6	UG/L	
			CHLOROFORM	=	3.3	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	1.9	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	2.2	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	TR	0.57	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/L	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	
			ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	
			BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	
			2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	
			DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	
			DI-n-BUTYL PHTHALATE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW8270C	DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW02	9/10/2002	SW8330	4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	
			TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
DP63-MW03		E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	22200	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	ND	0	MG/L	
			ARSENIC	ND	0	MG/L	
			BARIUM	=	0.0402	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	750	MG/L	
			CADMIUM	ND	0	MG/L	
			COBALT	TR	0.0119	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	TR	0.0053	MG/L	
			IRON	TR	0.081	MG/L	
			POTASSIUM	=	19.1	MG/L	
			MAGNESIUM	=	1150	MG/L	
			MANGANESE	=	0.733	MG/L	
			SODIUM	=	3820	MG/L	
			NICKEL	=	0.0208	MG/L	
			LEAD	ND	0	MG/L	
			ANTIMONY	ND	0	MG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW03	9/10/2002	SW6010B	SELENIUM	ND	0	MG/L	
			THALLIUM	TR	0.0069	MG/L	
			VANADIUM	TR	0.0064	MG/L	
			ZINC	TR	0.0169	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	24	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	=	8.1	UG/L	
			TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	ND	0	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	
			2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW03	9/10/2002	SW8260B	STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	=	1.1	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	0.41	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/L	
		SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	
			ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	
			BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	
			2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW03	9/10/2002	SW8270C	DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	
			DI-n-BUTYL PHTHALATE	ND	0	UG/L	
			DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW03	9/10/2002	SW8270C	NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	
			TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
DP63-MW04		E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	19300	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	=	1.51	MG/L	
			ARSENIC	ND	0	MG/L	
			BARIUM	=	0.0495	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	731	MG/L	
			CADMIUM	ND	0	MG/L	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW04	9/10/2002	SW6010B	COBALT	ND	0	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	=	0.0145	MG/L	
			IRON	=	2.53	MG/L	
			POTASSIUM	=	13.7	MG/L	
			MAGNESIUM	=	1410	MG/L	
			MANGANESE	=	1.18	MG/L	
			SODIUM	=	3890	MG/L	
			NICKEL	TR	0.0184	MG/L	
			LEAD	TR	0.0028	MG/L	
			ANTIMONY	ND	0	MG/L	
			SELENIUM	ND	0	MG/L	
			THALLIUM	ND	0	MG/L	
			VANADIUM	=	0.0142	MG/L	
			ZINC	=	0.0579	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	17	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	=	1.4	UG/L	
			TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	ND	0	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW04	9/10/2002	SW8260B	trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	ND	0	UG/L	
			2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	TR	0.5	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/L	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/L	
		SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	
			ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW04	9/10/2002	SW8270C	BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	
			2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	
			DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	
			DI-n-BUTYL PHTHALATE	ND	0	UG/L	
			DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW04	9/10/2002	SW8270C	INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	

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DP63-MW04	9/10/2002	SW8330	TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
DP63-MW05		E160.1	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	=	22800	MG/L	
		SW6010B	SILVER	ND	0	MG/L	
			ALUMINUM	=	0.837	MG/L	
			ARSENIC	ND	0	MG/L	
			BARIUM	=	0.0414	MG/L	
			BERYLLIUM	ND	0	MG/L	
			CALCIUM	=	782	MG/L	
			CADMIUM	ND	0	MG/L	
			COBALT	ND	0	MG/L	
			CHROMIUM	ND	0	MG/L	
			COPPER	TR	0.0081	MG/L	
			IRON	=	1.02	MG/L	
			POTASSIUM	=	13.4	MG/L	
			MAGNESIUM	=	1220	MG/L	
			MANGANESE	=	1.1	MG/L	
			SODIUM	=	3860	MG/L	
			NICKEL	TR	0.0173	MG/L	
			LEAD	ND	0	MG/L	
			ANTIMONY	ND	0	MG/L	
			SELENIUM	TR	0.0052	MG/L	
			THALLIUM	ND	0	MG/L	
			VANADIUM	=	0.0114	MG/L	
			ZINC	=	0.0234	MG/L	
		SW7470A	MERCURY	ND	0	UG/L	
		SW8260B	ACETONE	=	52	UG/L	
			BROMODICHLOROMETHANE	ND	0	UG/L	
			BROMOCHLOROMETHANE	ND	0	UG/L	
			BROMOMETHANE	ND	0	UG/L	
			BENZENE	=	2.8	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW05	9/10/2002	SW8260B	TOLUENE	ND	0	UG/L	
			CARBON DISULFIDE	TR	0.23	UG/L	
			CHLOROBENZENE	ND	0	UG/L	
			CHLOROETHANE	ND	0	UG/L	
			CHLOROMETHANE	ND	0	UG/L	
			CARBON TETRACHLORIDE	ND	0	UG/L	
			DIBROMOCHLOROMETHANE	ND	0	UG/L	
			1,1-DICHLOROETHANE	ND	0	UG/L	
			1,2-DICHLOROETHANE	ND	0	UG/L	
			1,1-DICHLOROETHENE	ND	0	UG/L	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/L	
			trans-1,2-DICHLOROETHENE	ND	0	UG/L	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/L	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/L	
			1,2-DICHLOROPROPANE	ND	0	UG/L	
			ETHYLBENZENE	TR	0.34	UG/L	
			2-HEXANONE	ND	0	UG/L	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/L	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/L	
			METHYLENE CHLORIDE	ND	0	UG/L	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/L	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/L	
			STYRENE	ND	0	UG/L	
			BROMOFORM	ND	0	UG/L	
			tert-BUTYL METHYL ETHER	ND	0	UG/L	
			1,1,1-TRICHLOROETHANE	ND	0	UG/L	
			1,1,2-TRICHLOROETHANE	ND	0	UG/L	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/L	
			CHLOROFORM	=	2.4	UG/L	
			VINYL ACETATE	ND	0	UG/L	
			VINYL CHLORIDE	ND	0	UG/L	
			M,P-XYLENE (SUM OF ISOMERS)	TR	1.2	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW05	9/10/2002	SW8260B	O-XYLENE (1,2-DIMETHYLBENZENE)	TR	0.33	UG/L	
		SW8270C	ACENAPHTHENE	ND	0	UG/L	
			ACENAPHTHYLENE	ND	0	UG/L	
			ANTHRACENE	ND	0	UG/L	
			BENZYL BUTYL PHTHALATE	ND	0	UG/L	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/L	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/L	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/L	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/L	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/L	
			BENZO(a)ANTHRACENE	ND	0	UG/L	
			BENZO(a)PYRENE	ND	0	UG/L	
			BENZO(b)FLUORANTHENE	ND	0	UG/L	
			BENZO(g,h,i)PERYLENE	ND	0	UG/L	
			BENZO(k)FLUORANTHENE	ND	0	UG/L	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/L	
			CHRYSENE	ND	0	UG/L	
			4-CHLOROANILINE	ND	0	UG/L	
			2-CHLOROPHENOL	ND	0	UG/L	
			2-CHLORONAPHTHALENE	ND	0	UG/L	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/L	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/L	
			DIBENZOFURAN	ND	0	UG/L	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/L	
			1,2-DICHLOROBENZENE	ND	0	UG/L	
			1,3-DICHLOROBENZENE	ND	0	UG/L	
			1,4-DICHLOROBENZENE	ND	0	UG/L	
			2,4-DICHLOROPHENOL	ND	0	UG/L	
			DIETHYL PHTHALATE	ND	0	UG/L	
			2,4-DIMETHYLPHENOL	ND	0	UG/L	
			DIMETHYL PHTHALATE	ND	0	UG/L	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/L	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW05	9/10/2002	SW8270C	DI-n-BUTYL PHTHALATE	ND	0	UG/L	
			DI-n-OCTYLPHTHALATE	ND	0	UG/L	
			2,4-DINITROPHENOL	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			FLUORENE	ND	0	UG/L	
			FLUORANTHENE	ND	0	UG/L	
			HEXACHLOROBUTADIENE	ND	0	UG/L	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/L	
			HEXACHLOROBENZENE	ND	0	UG/L	
			HEXACHLOROETHANE	ND	0	UG/L	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/L	
			ISOPHORONE	ND	0	UG/L	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/L	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/L	
			2-METHYLNAPHTHALENE	ND	0	UG/L	
			NAPHTHALENE	ND	0	UG/L	
			N-NITROSODIPHENYLAMINE	ND	0	UG/L	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/L	
			2-NITROANILINE	ND	0	UG/L	
			3-NITROANILINE	ND	0	UG/L	
			4-NITROANILINE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			2-NITROPHENOL	ND	0	UG/L	
			4-NITROPHENOL	ND	0	UG/L	
			PENTACHLOROPHENOL	ND	0	UG/L	
			PHENANTHRENE	ND	0	UG/L	
			PHENOL	ND	0	UG/L	
			PYRENE	ND	0	UG/L	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/L	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/L	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/L	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63-MW05	9/10/2002	SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/L	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/L	
			1,3-DINITROBENZENE	ND	0	UG/L	
			2,4-DINITROTOLUENE	ND	0	UG/L	
			2,6-DINITROTOLUENE	ND	0	UG/L	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/L	
			2-NITROTOLUENE	ND	0	UG/L	
			3-NITROTOLUENE	ND	0	UG/L	
			4-NITROTOLUENE	ND	0	UG/L	
			NITROBENZENE	ND	0	UG/L	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/L	
			TETRYL	ND	0	UG/L	
			1,3,5-TRINITROBENZENE	ND	0	UG/L	
			2,4,6-TRINITROTOLUENE	ND	0	UG/L	
DP63DP05S0401	7/8/2002	D2216	MOISTURE, PERCENT	=	15.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	TR	0.068	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2440	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	19.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	204000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	1970	MG/KG	
			POTASSIUM	=	793	MG/KG	
			MAGNESIUM	=	1290	MG/KG	
			MANGANESE	=	29	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0401	7/8/2002	SW6010B	SODIUM	=	759	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.37	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.4	MG/KG	
			ZINC	=	6.68	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0401	7/8/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0401	7/8/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0401	7/8/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP05S0901		D2216	MOISTURE, PERCENT	=	13.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0901	7/8/2002	M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2130	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	16.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	188000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	1740	MG/KG	
			POTASSIUM	=	662	MG/KG	
			MAGNESIUM	=	1040	MG/KG	
			MANGANESE	=	23.4	MG/KG	
			SODIUM	=	658	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.18	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	3.84	MG/KG	
			ZINC	=	4.9	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0901	7/8/2002	SW8260B	CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0901	7/8/2002	SW8270C	ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0901	7/8/2002	SW8270C	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S0901	7/8/2002	SW8330	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP05S2001		D2216	MOISTURE, PERCENT	=	13.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6880	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	48.6	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	151000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	6.42	MG/KG	
			COPPER	=	4.46	MG/KG	
			IRON	=	5060	MG/KG	
			POTASSIUM	=	1870	MG/KG	
			MAGNESIUM	=	3050	MG/KG	
			MANGANESE	=	52.9	MG/KG	
			SODIUM	=	2030	MG/KG	
			NICKEL	=	4.9	MG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S2001	7/8/2002	SW6010B	LEAD	=	3.41	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	15.3	MG/KG	
			ZINC	=	18.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S2001	7/8/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S2001	7/8/2002	SW8270C	4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP05S2001	7/8/2002	SW8270C	3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP06S0401	7/9/2002	D2216	MOISTURE, PERCENT	=	14.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0401	7/9/2002	SW6010B	ALUMINUM	=	2730	MG/KG	
			ARSENIC	TR	1.03	MG/KG	
			BARIUM	=	22.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	199000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	0.886	MG/KG	
			CHROMIUM	=	2.46	MG/KG	
			COPPER	TR	1.42	MG/KG	
			IRON	=	2300	MG/KG	
			POTASSIUM	=	898	MG/KG	
			MAGNESIUM	=	1640	MG/KG	
			MANGANESE	=	33.7	MG/KG	
			SODIUM	=	471	MG/KG	
			NICKEL	TR	1.9	MG/KG	
			LEAD	TR	1.02	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	7.28	MG/KG	
			ZINC	=	8.13	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0401	7/9/2002	SW8260B	CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0401	7/9/2002	SW8270C	bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0401	7/9/2002	SW8270C	FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0401	7/9/2002	SW8330	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP06S0901		D2216	MOISTURE, PERCENT	=	15.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1980	MG/KG	
			ARSENIC	TR	0.916	MG/KG	
			BARIUM	=	17.6	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	202000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	1.69	MG/KG	
			COPPER	TR	0.882	MG/KG	
			IRON	=	1680	MG/KG	
			POTASSIUM	TR	571	MG/KG	
			MAGNESIUM	=	1070	MG/KG	
			MANGANESE	=	24.3	MG/KG	
			SODIUM	=	373	MG/KG	
			NICKEL	TR	1.1	MG/KG	
			LEAD	TR	0.688	MG/KG	
			ANTIMONY	ND	0	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0901	7/9/2002	SW6010B	SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	3.41	MG/KG	
			ZINC	=	5.6	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0901	7/9/2002	SW8260B	STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0901	7/9/2002	SW8270C	DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S0901	7/9/2002	SW8270C	NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP06S2401	7/15/2002	D2216	MOISTURE, PERCENT	=	17.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	28200	MG/KG	
			ARSENIC	=	3.25	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S2401	7/15/2002	SW6010B	BARIUM	=	104	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	175000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	6.86	MG/KG	
			CHROMIUM	=	28.3	MG/KG	
			COPPER	=	15.4	MG/KG	
			IRON	=	19300	MG/KG	
			POTASSIUM	=	5300	MG/KG	
			MAGNESIUM	=	23400	MG/KG	
			MANGANESE	=	201	MG/KG	
			SODIUM	=	4440	MG/KG	
			NICKEL	=	21.7	MG/KG	
			LEAD	=	10.5	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	43.9	MG/KG	
			ZINC	=	69.1	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S2401	7/15/2002	SW8260B	1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S2401	7/15/2002	SW8270C	bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S2401	7/15/2002	SW8270C	HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S2401	7/15/2002	SW8330	4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP06S4601		D2216	MOISTURE, PERCENT	=	16.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	12700	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	53.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	94500	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.82	MG/KG	
			CHROMIUM	=	12	MG/KG	
			COPPER	=	6.05	MG/KG	
			IRON	=	10200	MG/KG	
			POTASSIUM	=	2390	MG/KG	
			MAGNESIUM	=	4930	MG/KG	
			MANGANESE	=	150	MG/KG	
			SODIUM	=	1670	MG/KG	
			NICKEL	=	9.66	MG/KG	
			LEAD	=	4.61	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	19.5	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S4601	7/15/2002	SW6010B	ZINC	=	26	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S4601	7/15/2002	SW8260B	1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S4601	7/15/2002	SW8270C	1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP06S4601	7/15/2002	SW8270C	PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S0401	7/9/2002	D2216	MOISTURE, PERCENT	=	16.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.13	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2740	MG/KG	
			ARSENIC	TR	0.669	MG/KG	
			BARIUM	=	23.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	189000	MG/KG	
			CADMIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0401	7/9/2002	SW6010B	COBALT	ND	0	MG/KG	
			CHROMIUM	TR	2.19	MG/KG	
			COPPER	TR	1.2	MG/KG	
			IRON	=	2330	MG/KG	
			POTASSIUM	=	825	MG/KG	
			MAGNESIUM	=	1830	MG/KG	
			MANGANESE	=	32.3	MG/KG	
			SODIUM	=	559	MG/KG	
			NICKEL	TR	1.9	MG/KG	
			LEAD	TR	1.14	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.75	MG/KG	
			ZINC	=	8.17	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0401	7/9/2002	SW8260B	trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0401	7/9/2002	SW8270C	BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0401	7/9/2002	SW8270C	INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0401	7/9/2002	SW8330	TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S0901		D2216	MOISTURE, PERCENT	=	14.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1770	MG/KG	
			ARSENIC	=	1.74	MG/KG	
			BARIUM	=	15.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	193000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	1.79	MG/KG	
			COPPER	TR	0.964	MG/KG	
			IRON	=	1560	MG/KG	
			POTASSIUM	TR	204	MG/KG	
			MAGNESIUM	=	1090	MG/KG	
			MANGANESE	=	38.9	MG/KG	
			SODIUM	=	315	MG/KG	
			NICKEL	TR	1.38	MG/KG	
			LEAD	TR	0.637	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	TR	0.708	MG/KG	
			VANADIUM	=	3.29	MG/KG	
			ZINC	=	5.55	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0901	7/9/2002	SW8260B	BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			I,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			I,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0901	7/9/2002	SW8260B	CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0901	7/9/2002	SW8270C	DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S0901	7/9/2002	SW8270C	PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S2401	7/16/2002	D2216	MOISTURE, PERCENT	=	20.4	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	10200	MG/KG	
			ARSENIC	=	1.63	MG/KG	
			BARIUM	=	73.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	174000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.45	MG/KG	
			CHROMIUM	=	9.87	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2401	7/16/2002	SW6010B	COPPER	=	6.42	MG/KG	
			IRON	=	8450	MG/KG	
			POTASSIUM	=	1880	MG/KG	
			MAGNESIUM	=	5070	MG/KG	
			MANGANESE	=	223	MG/KG	
			SODIUM	=	596	MG/KG	
			NICKEL	=	7.42	MG/KG	
			LEAD	=	4.58	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	18.6	MG/KG	
			ZINC	=	26.1	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2401	7/16/2002	SW8260B	1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2401	7/16/2002	SW8270C	BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	630	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2401	7/16/2002	SW8270C	4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	

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DP63DP07S2401	7/16/2002	SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S2402		D2216	MOISTURE, PERCENT	=	12.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	9690	MG/KG	
			ARSENIC	=	1.61	MG/KG	
			BARIUM	=	79.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	184000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.35	MG/KG	
			CHROMIUM	=	9.47	MG/KG	
			COPPER	=	6.83	MG/KG	
			IRON	=	8080	MG/KG	
			POTASSIUM	=	1880	MG/KG	
			MAGNESIUM	=	5170	MG/KG	
			MANGANESE	=	229	MG/KG	
			SODIUM	=	1540	MG/KG	
			NICKEL	=	7.28	MG/KG	
			LEAD	=	4.44	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	18.1	MG/KG	
			ZINC	=	24.9	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2402	7/16/2002	SW8260B	TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2402	7/16/2002	SW8260B	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2402	7/16/2002	SW8270C	DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S2402	7/16/2002	SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S4301		D2216	MOISTURE, PERCENT	=	20.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	7060	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	83.6	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	118000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	6.88	MG/KG	
			COPPER	=	4.31	MG/KG	
			IRON	=	6660	MG/KG	
			POTASSIUM	=	1250	MG/KG	
			MAGNESIUM	=	3320	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4301	7/16/2002	SW6010B	MANGANESE	=	85.7	MG/KG	
			SODIUM	=	1290	MG/KG	
			NICKEL	=	4.89	MG/KG	
			LEAD	=	2.95	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	14.2	MG/KG	
			ZINC	=	16	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4301	7/16/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4301	7/16/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	TR	390	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4301	7/16/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP07S4302		D2216	MOISTURE, PERCENT	=	21.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4302	7/16/2002	M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5140	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	68.4	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	170000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5	MG/KG	
			COPPER	=	3.44	MG/KG	
			IRON	=	5220	MG/KG	
			POTASSIUM	=	981	MG/KG	
			MAGNESIUM	=	2380	MG/KG	
			MANGANESE	=	65.8	MG/KG	
			SODIUM	=	883	MG/KG	
			NICKEL	=	3.58	MG/KG	
			LEAD	=	2.35	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	11.6	MG/KG	
			ZINC	=	11.3	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4302	7/16/2002	SW8260B	CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4302	7/16/2002	SW8270C	BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4302	7/16/2002	SW8270C	2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP07S4302	7/16/2002	SW8330	2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP08S0401	7/9/2002	D2216	MOISTURE, PERCENT	=	15	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2160	MG/KG	
			ARSENIC	=	1.42	MG/KG	
			BARIUM	=	17.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	192000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	2.2	MG/KG	
			COPPER	TR	0.923	MG/KG	
			IRON	=	1990	MG/KG	
			POTASSIUM	TR	550	MG/KG	
			MAGNESIUM	=	1380	MG/KG	
			MANGANESE	=	26	MG/KG	
			SODIUM	=	364	MG/KG	
			NICKEL	TR	1.14	MG/KG	
			LEAD	TR	0.679	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0401	7/9/2002	SW6010B	ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.66	MG/KG	
			ZINC	=	6.38	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0401	7/9/2002	SW8260B	TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0401	7/9/2002	SW8270C	DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0401	7/9/2002	SW8270C	4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP08S0901		D2216	MOISTURE, PERCENT	=	14.8	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2250	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0901	7/9/2002	SW6010B	ARSENIC	TR	0.527	MG/KG	
			BARIUM	=	16.4	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	207000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	2	MG/KG	
			COPPER	TR	1.01	MG/KG	
			IRON	=	1860	MG/KG	
			POTASSIUM	=	720	MG/KG	
			MAGNESIUM	=	1180	MG/KG	
			MANGANESE	=	57.1	MG/KG	
			SODIUM	=	459	MG/KG	
			NICKEL	TR	1.32	MG/KG	
			LEAD	TR	0.579	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	3.68	MG/KG	
			ZINC	=	7.91	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0901	7/9/2002	SW8260B	DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0901	7/9/2002	SW8270C	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0901	7/9/2002	SW8270C	FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S0901	7/9/2002	SW8330	2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP08S2401	7/15/2002	D2216	MOISTURE, PERCENT	=	14.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	15200	MG/KG	
			ARSENIC	=	2.51	MG/KG	
			BARIUM	=	120	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	143000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	7.08	MG/KG	
			CHROMIUM	=	14.1	MG/KG	
			COPPER	=	11	MG/KG	
			IRON	=	12900	MG/KG	
			POTASSIUM	=	3340	MG/KG	
			MAGNESIUM	=	8290	MG/KG	
			MANGANESE	=	331	MG/KG	
			SODIUM	=	2280	MG/KG	
			NICKEL	=	14.1	MG/KG	
			LEAD	=	7.77	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S2401	7/15/2002	SW6010B	THALLIUM	ND	0	MG/KG	
			VANADIUM	=	24.6	MG/KG	
			ZINC	=	48.7	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S2401	7/15/2002	SW8260B	tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S2401	7/15/2002	SW8270C	1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S2401	7/15/2002	SW8270C	4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	TR	0.199	MG/KG	
DP63DP08S4401		D2216	MOISTURE, PERCENT	=	27	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1800	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	24.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S4401	7/15/2002	SW6010B	CALCIUM	=	250000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	1780	MG/KG	
			POTASSIUM	TR	316	MG/KG	
			MAGNESIUM	=	1140	MG/KG	
			MANGANESE	=	57.8	MG/KG	
			SODIUM	=	995	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.33	MG/KG	
			ZINC	=	5.23	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S4401	7/15/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S4401	7/15/2002	SW8270C	BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S4401	7/15/2002	SW8270C	HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP08S4401	7/15/2002	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP09S0401	7/9/2002	D2216	MOISTURE, PERCENT	=	24.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2170	MG/KG	
			ARSENIC	=	1.43	MG/KG	
			BARIUM	=	17.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	202000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	2	MG/KG	
			COPPER	TR	0.766	MG/KG	
			IRON	=	1930	MG/KG	
			POTASSIUM	TR	522	MG/KG	
			MAGNESIUM	=	1180	MG/KG	
			MANGANESE	=	25.7	MG/KG	
			SODIUM	=	145	MG/KG	
			NICKEL	TR	1.47	MG/KG	
			LEAD	TR	0.633	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.7	MG/KG	
			ZINC	=	6.52	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0401	7/9/2002	SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0401	7/9/2002	SW8260B	TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0401	7/9/2002	SW8270C	2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	1200	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0401	7/9/2002	SW8270C	PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	TR	0.266	MG/KG	
DP63DP09S0901		D2216	MOISTURE, PERCENT	=	14	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2000	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	16.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	190000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0901	7/9/2002	SW6010B	CHROMIUM	TR	1.83	MG/KG	
			COPPER	TR	1.02	MG/KG	
			IRON	=	1820	MG/KG	
			POTASSIUM	TR	575	MG/KG	
			MAGNESIUM	=	1100	MG/KG	
			MANGANESE	=	22	MG/KG	
			SODIUM	=	354	MG/KG	
			NICKEL	TR	1.28	MG/KG	
			LEAD	TR	0.625	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	3.72	MG/KG	
			ZINC	=	5.81	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0901	7/9/2002	SW8260B	cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0901	7/9/2002	SW8270C	BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0901	7/9/2002	SW8270C	ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S0901	7/9/2002	SW8330	1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP09S2001		D2216	MOISTURE, PERCENT	=	16.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	23400	MG/KG	
			ARSENIC	=	3.3	MG/KG	
			BARIUM	=	115	MG/KG	
			BERYLLIUM	TR	1.09	MG/KG	
			CALCIUM	=	119000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	7.1	MG/KG	
			CHROMIUM	=	24.8	MG/KG	
			COPPER	=	11.7	MG/KG	
			IRON	=	18300	MG/KG	
			POTASSIUM	=	4850	MG/KG	
			MAGNESIUM	=	18900	MG/KG	
			MANGANESE	=	203	MG/KG	
			SODIUM	=	3800	MG/KG	
			NICKEL	=	20.1	MG/KG	
			LEAD	=	9.23	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	=	2.01	MG/KG	
			VANADIUM	=	35.5	MG/KG	
			ZINC	=	59.8	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S2001	7/9/2002	SW8260B	BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S2001	7/9/2002	SW8260B	VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S2001	7/9/2002	SW8270C	2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP09S2001	7/9/2002	SW8270C	1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP10S0401		D2216	MOISTURE, PERCENT	=	15.8	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2080	MG/KG	
			ARSENIC	TR	1.06	MG/KG	
			BARIUM	=	19.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	206000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	TR	2.01	MG/KG	
			COPPER	TR	0.751	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0401	7/9/2002	SW6010B	IRON	=	1870	MG/KG	
			POTASSIUM	=	664	MG/KG	
			MAGNESIUM	=	1250	MG/KG	
			MANGANESE	=	49.8	MG/KG	
			SODIUM	=	675	MG/KG	
			NICKEL	TR	1.74	MG/KG	
			LEAD	TR	0.455	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	3.7	MG/KG	
			ZINC	=	7.12	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0401	7/9/2002	SW8260B	1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0401	7/9/2002	SW8270C	BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0401	7/9/2002	SW8270C	4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0401	7/9/2002	SW9014	CYANIDE	ND	0	MG/KG	
DP63DP10S0901		D2216	MOISTURE, PERCENT	=	25.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3880	MG/KG	
			ARSENIC	TR	0.916	MG/KG	
			BARIUM	=	30.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	184000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	1.27	MG/KG	
			CHROMIUM	=	3.57	MG/KG	
			COPPER	TR	2.4	MG/KG	
			IRON	=	3380	MG/KG	
			POTASSIUM	=	1030	MG/KG	
			MAGNESIUM	=	1800	MG/KG	
			MANGANESE	=	42.2	MG/KG	
			SODIUM	=	160	MG/KG	
			NICKEL	=	2.97	MG/KG	
			LEAD	=	1.36	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.03	MG/KG	
			ZINC	=	12.3	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0901	7/9/2002	SW8260B	BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0901	7/9/2002	SW8260B	M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	560	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0901	7/9/2002	SW8270C	4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S0901	7/9/2002	SW8270C	2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP10S2001		D2216	MOISTURE, PERCENT	=	13.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	7740	MG/KG	
			ARSENIC	=	1.81	MG/KG	
			BARIUM	=	52.4	MG/KG	
			BERYLLIUM	TR	0.23	MG/KG	
			CALCIUM	=	173000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	2.42	MG/KG	
			CHROMIUM	=	7.45	MG/KG	
			COPPER	=	4.3	MG/KG	
			IRON	=	6710	MG/KG	
			POTASSIUM	=	1790	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S2001	7/9/2002	SW6010B	MAGNESIUM	=	3410	MG/KG	
			MANGANESE	=	119	MG/KG	
			SODIUM	=	1280	MG/KG	
			NICKEL	=	6.03	MG/KG	
			LEAD	=	3.35	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	13	MG/KG	
			ZINC	=	21.2	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S2001	7/9/2002	SW8260B	2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S2001	7/9/2002	SW8270C	CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP10S2001	7/9/2002	SW8270C	NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP11S0401		D2216	MOISTURE, PERCENT	=	12.7	PERCENT	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0401	7/9/2002	M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3490	MG/KG	
			ARSENIC	TR	1.08	MG/KG	
			BARIUM	=	28.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	165000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	1.09	MG/KG	
			CHROMIUM	=	3.14	MG/KG	
			COPPER	TR	1.88	MG/KG	
			IRON	=	3160	MG/KG	
			POTASSIUM	=	1070	MG/KG	
			MAGNESIUM	=	2470	MG/KG	
			MANGANESE	=	53.4	MG/KG	
			SODIUM	=	625	MG/KG	
			NICKEL	=	2.91	MG/KG	
			LEAD	=	1.41	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	7.04	MG/KG	
			ZINC	=	11.5	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0401	7/9/2002	SW8260B	CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0401	7/9/2002	SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0401	7/9/2002	SW8270C	DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0401	7/9/2002	SW8330	4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP11S0901		D2216	MOISTURE, PERCENT	=	12.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	4380	MG/KG	
			ARSENIC	=	1.31	MG/KG	
			BARIUM	=	32	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	170000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	1.36	MG/KG	
			CHROMIUM	=	3.61	MG/KG	
			COPPER	TR	2.24	MG/KG	
			IRON	=	3550	MG/KG	
			POTASSIUM	=	1250	MG/KG	
			MAGNESIUM	=	2190	MG/KG	
			MANGANESE	=	76	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0901	7/9/2002	SW6010B	SODIUM	=	652	MG/KG	
			NICKEL	=	3.07	MG/KG	
			LEAD	=	1.83	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	7.85	MG/KG	
			ZINC	=	12.1	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0901	7/9/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0901	7/9/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S0901	7/9/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP11S2001		D2216	MOISTURE, PERCENT	=	13.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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DP63DP11S2001	7/9/2002	M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	14000	MG/KG	
			ARSENIC	=	1.92	MG/KG	
			BARIUM	=	75.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	155000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.58	MG/KG	
			CHROMIUM	=	13.1	MG/KG	
			COPPER	=	8.17	MG/KG	
			IRON	=	10300	MG/KG	
			POTASSIUM	=	3130	MG/KG	
			MAGNESIUM	=	5680	MG/KG	
			MANGANESE	=	158	MG/KG	
			SODIUM	=	2870	MG/KG	
			NICKEL	=	10.1	MG/KG	
			LEAD	=	7.16	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	24.9	MG/KG	
			ZINC	=	33.7	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S2001	7/9/2002	SW8260B	CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,I,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S2001	7/9/2002	SW8270C	ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S2001	7/9/2002	SW8270C	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP11S2001	7/9/2002	SW8330	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP12S0401		D2216	MOISTURE, PERCENT	=	11.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	4210	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	31.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	162000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.51	MG/KG	
			COPPER	=	2.36	MG/KG	
			IRON	=	3220	MG/KG	
			POTASSIUM	=	1310	MG/KG	
			MAGNESIUM	=	1850	MG/KG	
			MANGANESE	=	53.1	MG/KG	
			SODIUM	=	1360	MG/KG	
			NICKEL	=	3.24	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0401	7/9/2002	SW6010B	LEAD	=	2.16	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	8.34	MG/KG	
			ZINC	=	8.56	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0401	7/9/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0401	7/9/2002	SW8270C	4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0401	7/9/2002	SW8270C	3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP12S0901		D2216	MOISTURE, PERCENT	=	10.1	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0901	7/9/2002	SW6010B	ALUMINUM	=	4330	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	36.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	148000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.74	MG/KG	
			COPPER	=	2.75	MG/KG	
			IRON	=	3390	MG/KG	
			POTASSIUM	=	1260	MG/KG	
			MAGNESIUM	=	1900	MG/KG	
			MANGANESE	=	95.2	MG/KG	
			SODIUM	=	1470	MG/KG	
			NICKEL	=	3.02	MG/KG	
			LEAD	=	2.28	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	8.05	MG/KG	
			ZINC	=	9.38	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0901	7/9/2002	SW8260B	CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0901	7/9/2002	SW8270C	bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0901	7/9/2002	SW8270C	FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S0901	7/9/2002	SW8330	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP12S2001		D2216	MOISTURE, PERCENT	=	13	PERCENT	
		M8015D	MOTOR OILS	=	140	MG/KG	
			PHC as DIESEL FUEL	=	390	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	11400	MG/KG	
			ARSENIC	=	1.61	MG/KG	
			BARIUM	=	76.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	154000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	2.82	MG/KG	
			CHROMIUM	=	10.1	MG/KG	
			COPPER	=	6.67	MG/KG	
			IRON	=	8380	MG/KG	
			POTASSIUM	=	2720	MG/KG	
			MAGNESIUM	=	4620	MG/KG	
			MANGANESE	=	138	MG/KG	
			SODIUM	=	2960	MG/KG	
			NICKEL	=	7.8	MG/KG	
			LEAD	=	5.39	MG/KG	
			ANTIMONY	ND	0	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S2001	7/9/2002	SW6010B	SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	18.8	MG/KG	
			ZINC	=	25.8	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S2001	7/9/2002	SW8260B	STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S2001	7/9/2002	SW8270C	DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP12S2001	7/9/2002	SW8270C	NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP13S0401	7/10/2002	D2216	MOISTURE, PERCENT	=	11.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2590	MG/KG	
			ARSENIC	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0401	7/10/2002	SW6010B	BARIUM	=	20.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	91500	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2050	MG/KG	
			POTASSIUM	=	673	MG/KG	
			MAGNESIUM	=	1190	MG/KG	
			MANGANESE	=	32.3	MG/KG	
			SODIUM	=	747	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.86	MG/KG	
			ZINC	=	6.98	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0401	7/10/2002	SW8260B	1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0401	7/10/2002	SW8270C	bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0401	7/10/2002	SW8270C	HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0401	7/10/2002	SW8330	3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP13S0901		D2216	MOISTURE, PERCENT	=	16	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2620	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	21.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	81200	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2040	MG/KG	
			POTASSIUM	=	781	MG/KG	
			MAGNESIUM	=	1100	MG/KG	
			MANGANESE	=	47	MG/KG	
			SODIUM	=	184	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0901	7/10/2002	SW6010B	VANADIUM	=	4.82	MG/KG	
			ZINC	=	6	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0901	7/10/2002	SW8260B	tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0901	7/10/2002	SW8270C	1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S0901	7/10/2002	SW8270C	4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP13S2401	7/16/2002	D2216	MOISTURE, PERCENT	=	11.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	15000	MG/KG	
			ARSENIC	=	1.73	MG/KG	
			BARIUM	=	129	MG/KG	
			BERYLLIUM	ND	0	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S2401	7/16/2002	SW6010B	CALCIUM	=	205000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.95	MG/KG	
			CHROMIUM	=	13.9	MG/KG	
			COPPER	=	8.61	MG/KG	
			IRON	=	11600	MG/KG	
			POTASSIUM	=	2800	MG/KG	
			MAGNESIUM	=	6570	MG/KG	
			MANGANESE	=	313	MG/KG	
			SODIUM	=	2240	MG/KG	
			NICKEL	=	11.3	MG/KG	
			LEAD	=	6.82	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	28.6	MG/KG	
			ZINC	=	32.7	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S2401	7/16/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S2401	7/16/2002	SW8270C	BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S2401	7/16/2002	SW8270C	HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S2401	7/16/2002	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP13S3901		D2216	MOISTURE, PERCENT	=	18.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	18900	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	127	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	107000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	6.76	MG/KG	
			CHROMIUM	=	22.3	MG/KG	
			COPPER	=	8.88	MG/KG	
			IRON	=	13100	MG/KG	
			POTASSIUM	=	3410	MG/KG	
			MAGNESIUM	=	6560	MG/KG	
			MANGANESE	=	249	MG/KG	
			SODIUM	=	2190	MG/KG	
			NICKEL	=	14.1	MG/KG	
			LEAD	=	7.82	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	28	MG/KG	
			ZINC	=	43.2	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S3901	7/16/2002	SW8260B	BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S3901	7/16/2002	SW8260B	CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S3901	7/16/2002	SW8270C	DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP13S3901	7/16/2002	SW8270C	PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP14S0401	7/10/2002	D2216	MOISTURE, PERCENT	=	16.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1750	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	17.9	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	94700	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0401	7/10/2002	SW6010B	COPPER	ND	0	MG/KG	
			IRON	=	1340	MG/KG	
			POTASSIUM	TR	478	MG/KG	
			MAGNESIUM	=	1220	MG/KG	
			MANGANESE	=	18.5	MG/KG	
			SODIUM	=	903	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.31	MG/KG	
			ZINC	=	8.8	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0401	7/10/2002	SW8260B	trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0401	7/10/2002	SW8270C	BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0401	7/10/2002	SW8270C	2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0401	7/10/2002	SW8330	2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP14S0901		D2216	MOISTURE, PERCENT	=	12.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3190	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	21.9	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	85900	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.16	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2530	MG/KG	
			POTASSIUM	=	888	MG/KG	
			MAGNESIUM	=	1590	MG/KG	
			MANGANESE	=	41.8	MG/KG	
			SODIUM	=	730	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.4	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.49	MG/KG	
			ZINC	=	8.23	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0901	7/10/2002	SW8260B	BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0901	7/10/2002	SW8260B	VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0901	7/10/2002	SW8270C	DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S0901	7/10/2002	SW8270C	2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP14S2401	7/11/2002	D2216	MOISTURE, PERCENT	=	15.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	9270	MG/KG	
			ARSENIC	TR	0.899	MG/KG	
			BARIUM	=	65.4	MG/KG	
			BERYLLIUM	TR	0.204	MG/KG	
			CALCIUM	=	190000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	2.94	MG/KG	
			CHROMIUM	=	8.41	MG/KG	
			COPPER	=	5.41	MG/KG	
			IRON	=	7410	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S2401	7/11/2002	SW6010B	POTASSIUM	=	2070	MG/KG	
			MAGNESIUM	=	5630	MG/KG	
			MANGANESE	=	106	MG/KG	
			SODIUM	=	1890	MG/KG	
			NICKEL	=	6.58	MG/KG	
			LEAD	=	3.73	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	15.3	MG/KG	
			ZINC	=	23	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S2401	7/11/2002	SW8260B	ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S2401	7/11/2002	SW8270C	4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S2401	7/11/2002	SW8270C	2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S4701	7/11/2002	D2216	MOISTURE, PERCENT	=	28.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6390	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	31.5	MG/KG	
			BERYLLIUM	TR	0.244	MG/KG	
			CALCIUM	=	233000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	1.78	MG/KG	
			CHROMIUM	=	6	MG/KG	
			COPPER	TR	2.55	MG/KG	
			IRON	=	5120	MG/KG	
			POTASSIUM	=	1550	MG/KG	
			MAGNESIUM	=	2940	MG/KG	
			MANGANESE	=	70.5	MG/KG	
			SODIUM	=	1010	MG/KG	
			NICKEL	=	5.08	MG/KG	
			LEAD	=	2.46	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	9.21	MG/KG	
			ZINC	=	14.9	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S4701	7/11/2002	SW8260B	TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S4701	7/11/2002	SW8260B	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S4701	7/11/2002	SW8270C	DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP14S4701	7/11/2002	SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP15S0401	7/10/2002	D2216	MOISTURE, PERCENT	=	21	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2490	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	20	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	97200	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	2.57	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2130	MG/KG	
			POTASSIUM	=	647	MG/KG	
			MAGNESIUM	=	1390	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0401	7/10/2002	SW6010B	MANGANESE	=	26.9	MG/KG	
			SODIUM	=	211	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.38	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.28	MG/KG	
			ZINC	=	7.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0401	7/10/2002	SW8260B	METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0401	7/10/2002	SW8270C	4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0401	7/10/2002	SW8270C	N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP15S0901		D2216	MOISTURE, PERCENT	=	14.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0901	7/10/2002	M8015D	PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3480	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	22.9	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	95900	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.66	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2950	MG/KG	
			POTASSIUM	=	890	MG/KG	
			MAGNESIUM	=	1650	MG/KG	
			MANGANESE	=	45.5	MG/KG	
			SODIUM	=	890	MG/KG	
			NICKEL	=	2.54	MG/KG	
			LEAD	=	1.46	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	7.09	MG/KG	
			ZINC	=	8.55	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0901	7/10/2002	SW8260B	CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0901	7/10/2002	SW8270C	ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0901	7/10/2002	SW8270C	2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S0901	7/10/2002	SW8330	1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP15S2401	7/12/2002	D2216	MOISTURE, PERCENT	=	15.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	16000	MG/KG	
			ARSENIC	=	3.2	MG/KG	
			BARIUM	=	109	MG/KG	
			BERYLLIUM	TR	0.73	MG/KG	
			CALCIUM	=	148000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	6.73	MG/KG	
			CHROMIUM	=	16.3	MG/KG	
			COPPER	=	12.3	MG/KG	
			IRON	=	16100	MG/KG	
			POTASSIUM	=	3600	MG/KG	
			MAGNESIUM	=	14100	MG/KG	
			MANGANESE	=	237	MG/KG	
			SODIUM	=	3350	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S2401	7/12/2002	SW6010B	NICKEL	=	14.7	MG/KG	
			LEAD	=	8.99	MG/KG	
			ANTIMONY	TR	6.73	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	30.3	MG/KG	
			ZINC	=	56.2	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S2401	7/12/2002	SW8260B	METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S2401	7/12/2002	SW8270C	2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S2401	7/12/2002	SW8270C	2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP15S4701		D2216	MOISTURE, PERCENT	=	22.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S4701	7/12/2002	SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5980	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	66	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	215000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	TR	1.89	MG/KG	
			CHROMIUM	=	5.82	MG/KG	
			COPPER	=	2.61	MG/KG	
			IRON	=	5280	MG/KG	
			POTASSIUM	=	1420	MG/KG	
			MAGNESIUM	=	3010	MG/KG	
			MANGANESE	=	87.9	MG/KG	
			SODIUM	=	1960	MG/KG	
			NICKEL	=	4.82	MG/KG	
			LEAD	=	2.37	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	12.2	MG/KG	
			ZINC	=	15	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S4701	7/12/2002	SW8260B	CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S4701	7/12/2002	SW8270C	BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S4701	7/12/2002	SW8270C	2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP15S4701	7/12/2002	SW8330	2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP16S0401	7/10/2002	D2216	MOISTURE, PERCENT	=	21.1	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2780	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	20.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	80100	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.16	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2570	MG/KG	
			POTASSIUM	=	765	MG/KG	
			MAGNESIUM	=	1280	MG/KG	
			MANGANESE	=	33.8	MG/KG	
			SODIUM	=	160	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.43	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0401	7/10/2002	SW6010B	ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.98	MG/KG	
			ZINC	=	8.19	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0401	7/10/2002	SW8260B	TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0401	7/10/2002	SW8270C	DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	1100	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0401	7/10/2002	SW8270C	4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP16S0901		D2216	MOISTURE, PERCENT	=	17.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2600	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0901	7/10/2002	SW6010B	ARSENIC	ND	0	MG/KG	
			BARIUM	=	23.4	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	85400	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.07	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2450	MG/KG	
			POTASSIUM	TR	588	MG/KG	
			MAGNESIUM	=	1280	MG/KG	
			MANGANESE	=	39.4	MG/KG	
			SODIUM	=	228	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.79	MG/KG	
			ZINC	=	8.06	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0901	7/10/2002	SW8260B	DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0901	7/10/2002	SW8270C	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0901	7/10/2002	SW8270C	FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S0901	7/10/2002	SW8330	2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP16S2001		D2216	MOISTURE, PERCENT	=	13.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.43	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3790	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	27.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	104000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	4.58	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	3560	MG/KG	
			POTASSIUM	=	825	MG/KG	
			MAGNESIUM	=	2080	MG/KG	
			MANGANESE	=	48	MG/KG	
			SODIUM	=	921	MG/KG	
			NICKEL	=	2.96	MG/KG	
			LEAD	=	1.66	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2001	7/10/2002	SW6010B	THALLIUM	ND	0	MG/KG	
			VANADIUM	=	8.81	MG/KG	
			ZINC	=	11.7	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2001	7/10/2002	SW8260B	BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2001	7/10/2002	SW8270C	3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2001	7/10/2002	SW8270C	2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP16S2002		D2216	MOISTURE, PERCENT	=	13.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.14	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3980	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	28.8	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2002	7/10/2002	SW6010B	BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	108000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	4.84	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	3820	MG/KG	
			POTASSIUM	=	910	MG/KG	
			MAGNESIUM	=	2250	MG/KG	
			MANGANESE	=	53.9	MG/KG	
			SODIUM	=	990	MG/KG	
			NICKEL	=	3.19	MG/KG	
			LEAD	=	1.71	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	9.36	MG/KG	
			ZINC	=	12.1	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2002	7/10/2002	SW8260B	1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2002	7/10/2002	SW8270C	bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2002	7/10/2002	SW8270C	HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP16S2002	7/10/2002	SW8330	4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP17S0401		D2216	MOISTURE, PERCENT	=	14.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	4460	MG/KG	
			ARSENIC	=	2.62	MG/KG	
			BARIUM	=	35.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	150000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.64	MG/KG	
			COPPER	=	2.41	MG/KG	
			IRON	=	4590	MG/KG	
			POTASSIUM	=	1410	MG/KG	
			MAGNESIUM	=	2420	MG/KG	
			MANGANESE	=	75.5	MG/KG	
			SODIUM	=	1350	MG/KG	
			NICKEL	=	4.65	MG/KG	
			LEAD	=	2.19	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	=	1.27	MG/KG	
			VANADIUM	=	10.9	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0401	7/10/2002	SW6010B	ZINC	=	19.1	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			I,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0401	7/10/2002	SW8260B	1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0401	7/10/2002	SW8270C	1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0401	7/10/2002	SW8270C	PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP17S0901		D2216	MOISTURE, PERCENT	=	11	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	4790	MG/KG	
			ARSENIC	=	2.49	MG/KG	
			BARIUM	=	30.6	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	154000	MG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0901	7/10/2002	SW6010B	CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.81	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	4720	MG/KG	
			POTASSIUM	=	1250	MG/KG	
			MAGNESIUM	=	2370	MG/KG	
			MANGANESE	=	74.7	MG/KG	
			SODIUM	=	1040	MG/KG	
			NICKEL	=	3.92	MG/KG	
			LEAD	=	1.97	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	10.4	MG/KG	
			ZINC	=	13.3	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0901	7/10/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			I,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0901	7/10/2002	SW8270C	BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0901	7/10/2002	SW8270C	HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S0901	7/10/2002	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP17S2401	7/12/2002	D2216	MOISTURE, PERCENT	=	26.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	23300	MG/KG	
			ARSENIC	=	3.63	MG/KG	
			BARIUM	=	127	MG/KG	
			BERYLLIUM	TR	0.763	MG/KG	
			CALCIUM	=	172000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	7.03	MG/KG	
			CHROMIUM	=	22.6	MG/KG	
			COPPER	=	13.4	MG/KG	
			IRON	=	20000	MG/KG	
			POTASSIUM	=	5030	MG/KG	
			MAGNESIUM	=	13300	MG/KG	
			MANGANESE	=	303	MG/KG	
			SODIUM	=	2760	MG/KG	
			NICKEL	=	17.9	MG/KG	
			LEAD	=	9.94	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	40.2	MG/KG	
			ZINC	=	60.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S2401	7/12/2002	SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S2401	7/12/2002	SW8260B	TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S2401	7/12/2002	SW8270C	2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	2600	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S2401	7/12/2002	SW8270C	PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP17S4701		D2216	MOISTURE, PERCENT	=	18.1	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	10300	MG/KG	
			ARSENIC	=	3.94	MG/KG	
			BARIUM	=	80.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	70600	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	=	3.45	MG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S4701	7/12/2002	SW6010B	CHROMIUM	=	10.9	MG/KG	
			COPPER	=	5.36	MG/KG	
			IRON	=	9870	MG/KG	
			POTASSIUM	=	1970	MG/KG	
			MAGNESIUM	=	4290	MG/KG	
			MANGANESE	=	112	MG/KG	
			SODIUM	=	2350	MG/KG	
			NICKEL	=	7.36	MG/KG	
			LEAD	=	4.15	MG/KG	
			ANTIMONY	TR	3.68	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	20.9	MG/KG	
			ZINC	=	22.9	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S4701	7/12/2002	SW8260B	cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S4701	7/12/2002	SW8270C	BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP17S4701	7/12/2002	SW8270C	ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	

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DP63DP17S4701	7/12/2002	SW8330	1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP18S0401	7/10/2002	D2216	MOISTURE, PERCENT	=	17.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2690	MG/KG	
			ARSENIC	=	1.47	MG/KG	
			BARIUM	=	26.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	216000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.43	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	2810	MG/KG	
			POTASSIUM	=	1000	MG/KG	
			MAGNESIUM	=	2130	MG/KG	
			MANGANESE	=	40.1	MG/KG	
			SODIUM	=	1610	MG/KG	
			NICKEL	=	2.81	MG/KG	
			LEAD	=	2.19	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	8.92	MG/KG	
			ZINC	=	10.1	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0401	7/10/2002	SW8260B	BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0401	7/10/2002	SW8260B	VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0401	7/10/2002	SW8270C	2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0401	7/10/2002	SW8270C	1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP18S0901		D2216	MOISTURE, PERCENT	=	11.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5460	MG/KG	
			ARSENIC	=	2	MG/KG	
			BARIUM	=	43.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	103000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.42	MG/KG	
			COPPER	=	3.17	MG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0901	7/10/2002	SW6010B	IRON	=	4290	MG/KG	
			POTASSIUM	=	1610	MG/KG	
			MAGNESIUM	=	2770	MG/KG	
			MANGANESE	=	62.6	MG/KG	
			SODIUM	=	1310	MG/KG	
			NICKEL	=	3.8	MG/KG	
			LEAD	=	2.36	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	=	1.75	MG/KG	
			VANADIUM	=	11.9	MG/KG	
			ZINC	=	14	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0901	7/10/2002	SW8260B	1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0901	7/10/2002	SW8270C	BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0901	7/10/2002	SW8270C	4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
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Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S0901	7/10/2002	SW9014	CYANIDE	ND	0	MG/KG	
DP63DP18S2001		D2216	MOISTURE, PERCENT	=	12.4	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6070	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	43.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	166000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.84	MG/KG	
			COPPER	=	4.33	MG/KG	
			IRON	=	4950	MG/KG	
			POTASSIUM	=	1320	MG/KG	
			MAGNESIUM	=	3060	MG/KG	
			MANGANESE	=	75	MG/KG	
			SODIUM	=	1280	MG/KG	
			NICKEL	=	3.8	MG/KG	
			LEAD	=	2.54	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	11.7	MG/KG	
			ZINC	=	15.3	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2001	7/10/2002	SW8260B	BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			I,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2001	7/10/2002	SW8260B	M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2001	7/10/2002	SW8270C	4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2001	7/10/2002	SW8270C	2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP18S2002		D2216	MOISTURE, PERCENT	=	12.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6330	MG/KG	
			ARSENIC	=	2	MG/KG	
			BARIUM	=	45	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	168000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.99	MG/KG	
			COPPER	=	2.98	MG/KG	
			IRON	=	4380	MG/KG	
			POTASSIUM	=	1330	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2002	7/10/2002	SW6010B	MAGNESIUM	=	2950	MG/KG	
			MANGANESE	=	77.3	MG/KG	
			SODIUM	=	1400	MG/KG	
			NICKEL	=	3.46	MG/KG	
			LEAD	=	2.06	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	11.4	MG/KG	
			ZINC	=	13.5	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2002	7/10/2002	SW8260B	2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2002	7/10/2002	SW8270C	CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP18S2002	7/10/2002	SW8270C	NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP19S0401		D2216	MOISTURE, PERCENT	=	18.9	PERCENT	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0401	7/10/2002	M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2730	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	26.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	200000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	ND	0	MG/KG	
			IRON	=	1670	MG/KG	
			POTASSIUM	=	961	MG/KG	
			MAGNESIUM	=	1820	MG/KG	
			MANGANESE	=	22.5	MG/KG	
			SODIUM	=	1350	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.36	MG/KG	
			ZINC	=	6.66	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0401	7/10/2002	SW8260B	CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0401	7/10/2002	SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0401	7/10/2002	SW8270C	DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0401	7/10/2002	SW8330	4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP19S0901		D2216	MOISTURE, PERCENT	=	11.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.16	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5370	MG/KG	
			ARSENIC	=	1.15	MG/KG	
			BARIUM	=	36.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	110000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	4.71	MG/KG	
			COPPER	=	2.33	MG/KG	
			IRON	=	3550	MG/KG	
			POTASSIUM	=	1350	MG/KG	
			MAGNESIUM	=	2340	MG/KG	
			MANGANESE	=	57.4	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0901	7/10/2002	SW6010B	SODIUM	=	972	MG/KG	
			NICKEL	=	2.79	MG/KG	
			LEAD	=	1.78	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	9.33	MG/KG	
			ZINC	=	10.9	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0901	7/10/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

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DP63DP19S0901	7/10/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S0901	7/10/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP19S2001		D2216	MOISTURE, PERCENT	=	12.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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DP63DP19S2001	7/10/2002	M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6800	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	44.3	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	173000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	6.22	MG/KG	
			COPPER	=	2.72	MG/KG	
			IRON	=	4940	MG/KG	
			POTASSIUM	=	1540	MG/KG	
			MAGNESIUM	=	3280	MG/KG	
			MANGANESE	=	67.8	MG/KG	
			SODIUM	=	1340	MG/KG	
			NICKEL	=	3.29	MG/KG	
			LEAD	=	2.38	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	11.5	MG/KG	
			ZINC	=	14.6	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2001	7/10/2002	SW8260B	CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2001	7/10/2002	SW8270C	ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2001	7/10/2002	SW8270C	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2001	7/10/2002	SW8330	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63DP19S2002		D2216	MOISTURE, PERCENT	=	12.6	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	6540	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	45	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	170000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	5.49	MG/KG	
			COPPER	=	3.05	MG/KG	
			IRON	=	4930	MG/KG	
			POTASSIUM	=	1500	MG/KG	
			MAGNESIUM	=	3190	MG/KG	
			MANGANESE	=	67.5	MG/KG	
			SODIUM	=	1340	MG/KG	
			NICKEL	=	3.66	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2002	7/10/2002	SW6010B	LEAD	=	2.35	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	12.1	MG/KG	
			ZINC	=	14	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2002	7/10/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2002	7/10/2002	SW8270C	4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63DP19S2002	7/10/2002	SW8270C	3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS01S0001	7/8/2002	D2216	MOISTURE, PERCENT	=	13.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS01S0001	7/8/2002	SW6010B	ALUMINUM	=	2810	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	40.1	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	178000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.04	MG/KG	
			COPPER	=	6.08	MG/KG	
			IRON	=	2240	MG/KG	
			POTASSIUM	=	1220	MG/KG	
			MAGNESIUM	=	3780	MG/KG	
			MANGANESE	=	55.8	MG/KG	
			SODIUM	=	6460	MG/KG	
			NICKEL	=	3.12	MG/KG	
			LEAD	=	8.43	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.18	MG/KG	
			ZINC	=	12.7	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS01S0001	7/8/2002	SW8260B	CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS01S0001	7/8/2002	SW8270C	bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS01S0001	7/8/2002	SW8270C	FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS01S0001	7/8/2002	SW8330	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS02S0001		D2216	MOISTURE, PERCENT	=	12.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1320	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	24.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	213000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	3.54	MG/KG	
			IRON	=	1010	MG/KG	
			POTASSIUM	ND	0	MG/KG	
			MAGNESIUM	=	1190	MG/KG	
			MANGANESE	=	25	MG/KG	
			SODIUM	=	1630	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	1.75	MG/KG	
			ANTIMONY	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0001	7/8/2002	SW6010B	SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	ND	0	MG/KG	
			ZINC	=	6.16	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0001	7/8/2002	SW8260B	STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0001	7/8/2002	SW8270C	DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0001	7/8/2002	SW8270C	NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS02S0002		D2216	MOISTURE, PERCENT	=	13	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.16	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1370	MG/KG	
			ARSENIC	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0002	7/8/2002	SW6010B	BARIUM	=	24.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	224000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	3.91	MG/KG	
			IRON	=	1100	MG/KG	
			POTASSIUM	ND	0	MG/KG	
			MAGNESIUM	=	1220	MG/KG	
			MANGANESE	=	26.2	MG/KG	
			SODIUM	=	1810	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	3.38	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	ND	0	MG/KG	
			ZINC	=	5.85	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0002	7/8/2002	SW8260B	1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0002	7/8/2002	SW8270C	bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0002	7/8/2002	SW8270C	HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS02S0002	7/8/2002	SW8330	3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS03S0001	7/9/2002	D2216	MOISTURE, PERCENT	=	27.4	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2890	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	103	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	116000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.68	MG/KG	
			COPPER	=	57.2	MG/KG	
			IRON	=	2610	MG/KG	
			POTASSIUM	=	744	MG/KG	
			MAGNESIUM	=	2180	MG/KG	
			MANGANESE	=	75.2	MG/KG	
			SODIUM	=	364	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	759	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS03S0001	7/9/2002	SW6010B	VANADIUM	=	4.98	MG/KG	
			ZINC	=	112	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS03S0001	7/9/2002	SW8260B	1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	TR	3.8	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS03S0001	7/9/2002	SW8260B	1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS03S0001	7/9/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS03S0001	7/9/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS04S0001		D2216	MOISTURE, PERCENT	=	12.4	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2890	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	35.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	157000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	2.61	MG/KG	
			COPPER	=	4.02	MG/KG	
			IRON	=	2200	MG/KG	
			POTASSIUM	=	929	MG/KG	
			MAGNESIUM	=	3820	MG/KG	
			MANGANESE	=	51.3	MG/KG	
			SODIUM	=	2470	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	5.52	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.31	MG/KG	
			ZINC	=	9.72	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	SW8260B	BENZENE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	SW8260B	ETHYLBENZENE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			METHYLENE CHLORIDE	TR	2.8	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	SW8260B	M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	SW8270C	2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS04S0001	7/9/2002	SW8270C	1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS05S0001		D2216	MOISTURE, PERCENT	=	12	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3370	MG/KG	
			ARSENIC	=	1.62	MG/KG	
			BARIUM	=	47.9	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	190000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	2.87	MG/KG	
			COPPER	=	4.89	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW6010B	IRON	=	2640	MG/KG	
			POTASSIUM	=	1140	MG/KG	
			MAGNESIUM	=	3990	MG/KG	
			MANGANESE	=	59.1	MG/KG	
			SODIUM	=	2470	MG/KG	
			NICKEL	=	2.56	MG/KG	
			LEAD	=	2.21	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	5.94	MG/KG	
			ZINC	=	9.22	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW8260B	CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	TR	2.5	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW8270C	bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW8270C	HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS05S0001	7/9/2002	SW8330	4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS06S0001		D2216	MOISTURE, PERCENT	=	7.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3680	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	36.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	100000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.09	MG/KG	
			COPPER	=	13.6	MG/KG	
			IRON	=	2900	MG/KG	
			POTASSIUM	=	1010	MG/KG	
			MAGNESIUM	=	2870	MG/KG	
			MANGANESE	=	72	MG/KG	
			SODIUM	=	260	MG/KG	
			NICKEL	=	2.48	MG/KG	
			LEAD	=	7.71	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.47	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS06S0001	7/9/2002	SW6010B	ZINC	=	19.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS06S0001	7/9/2002	SW8260B	1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS06S0001	7/9/2002	SW8270C	1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS06S0001	7/9/2002	SW8270C	PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS07S0001		D2216	MOISTURE, PERCENT	=	9.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5100	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	65.4	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	110000	MG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0001	7/9/2002	SW6010B	CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	4.07	MG/KG	
			COPPER	=	9.02	MG/KG	
			IRON	=	3710	MG/KG	
			POTASSIUM	=	1590	MG/KG	
			MAGNESIUM	=	12700	MG/KG	
			MANGANESE	=	65.6	MG/KG	
			SODIUM	=	2370	MG/KG	
			NICKEL	=	3.45	MG/KG	
			LEAD	=	3.75	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	10.3	MG/KG	
			ZINC	=	35.3	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0001	7/9/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0001	7/9/2002	SW8270C	BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0001	7/9/2002	SW8270C	HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0001	7/9/2002	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS07S0002		D2216	MOISTURE, PERCENT	=	23.7	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	5830	MG/KG	
			ARSENIC	=	1.57	MG/KG	
			BARIUM	=	77.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	112000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	4.72	MG/KG	
			COPPER	=	12.4	MG/KG	
			IRON	=	4240	MG/KG	
			POTASSIUM	=	1580	MG/KG	
			MAGNESIUM	=	15200	MG/KG	
			MANGANESE	=	75.1	MG/KG	
			SODIUM	=	870	MG/KG	
			NICKEL	=	3.95	MG/KG	
			LEAD	=	4.33	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	12.2	MG/KG	
			ZINC	=	37.1	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0002	7/9/2002	SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0002	7/9/2002	SW8260B	TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	

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DP63SS07S0002	7/9/2002	SW8270C	2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	850	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS07S0002	7/9/2002	SW8270C	PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS08S0001		D2216	MOISTURE, PERCENT	=	14.8	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	650	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	24.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	311000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS08S0001	7/9/2002	SW6010B	CHROMIUM	ND	0	MG/KG	
			COPPER	=	4.13	MG/KG	
			IRON	=	443	MG/KG	
			POTASSIUM	ND	0	MG/KG	
			MAGNESIUM	=	2320	MG/KG	
			MANGANESE	=	12.8	MG/KG	
			SODIUM	=	1880	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	ND	0	MG/KG	
			ZINC	=	24.8	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS08S0001	7/9/2002	SW8260B	cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS08S0001	7/9/2002	SW8270C	BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS08S0001	7/9/2002	SW8270C	ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS08S0001	7/9/2002	SW8330	1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS09S0001		D2216	MOISTURE, PERCENT	=	23.5	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	TR	8.2	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3910	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	46.5	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	77200	MG/KG	
			CADMIUM	=	4.83	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	3.94	MG/KG	
			COPPER	=	1330	MG/KG	
			IRON	=	5400	MG/KG	
			POTASSIUM	=	849	MG/KG	
			MAGNESIUM	=	2790	MG/KG	
			MANGANESE	=	88.8	MG/KG	
			SODIUM	TR	84.7	MG/KG	
			NICKEL	=	59.6	MG/KG	
			LEAD	=	132	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	7.38	MG/KG	
			ZINC	=	1420	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS09S0001	7/9/2002	SW8260B	BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS09S0001	7/9/2002	SW8260B	VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	TR	400	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	=	1600	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS09S0001	7/9/2002	SW8270C	2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS09S0001	7/9/2002	SW8270C	1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS10S0001	7/10/2002	D2216	MOISTURE, PERCENT	=	15.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	541	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	23.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	290000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	3.2	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS10S0001	7/10/2002	SW6010B	IRON	=	385	MG/KG	
			POTASSIUM	ND	0	MG/KG	
			MAGNESIUM	=	1190	MG/KG	
			MANGANESE	=	8.65	MG/KG	
			SODIUM	=	548	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	ND	0	MG/KG	
			ZINC	=	14.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS10S0001	7/10/2002	SW8260B	1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS10S0001	7/10/2002	SW8270C	BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS10S0001	7/10/2002	SW8270C	4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS10S0001	7/10/2002	SW9014	CYANIDE	ND	0	MG/KG	
DP63SS11S0001		D2216	MOISTURE, PERCENT	=	16.1	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	TR	5	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	882	MG/KG	
			ARSENIC	=	1.35	MG/KG	
			BARIUM	=	20.2	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	254000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	2.82	MG/KG	
			IRON	=	518	MG/KG	
			POTASSIUM	TR	168	MG/KG	
			MAGNESIUM	=	2290	MG/KG	
			MANGANESE	=	9.97	MG/KG	
			SODIUM	=	898	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	ND	0	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	2.97	MG/KG	
			ZINC	=	4.33	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS11S0001	7/10/2002	SW8260B	BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS11S0001	7/10/2002	SW8260B	M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS11S0001	7/10/2002	SW8270C	4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS11S0001	7/10/2002	SW8270C	2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS12S0001		D2216	MOISTURE, PERCENT	=	12.9	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	3220	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	66.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	225000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	2.96	MG/KG	
			COPPER	=	47.8	MG/KG	
			IRON	=	2370	MG/KG	
			POTASSIUM	=	839	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS12S0001	7/10/2002	SW6010B	MAGNESIUM	=	3490	MG/KG	
			MANGANESE	=	51	MG/KG	
			SODIUM	=	1130	MG/KG	
			NICKEL	=	2.45	MG/KG	
			LEAD	=	9.1	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	6.28	MG/KG	
			ZINC	=	87.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS12S0001	7/10/2002	SW8260B	2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS12S0001	7/10/2002	SW8270C	CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS12S0001	7/10/2002	SW8270C	NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS13S0001		D2216	MOISTURE, PERCENT	=	13.8	PERCENT	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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DP63SS13S0001	7/10/2002	M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	ND	0	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	2070	MG/KG	
			ARSENIC	=	1.56	MG/KG	
			BARIUM	=	90.7	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	219000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	=	2.81	MG/KG	
			COPPER	=	28.3	MG/KG	
			IRON	=	4730	MG/KG	
			POTASSIUM	TR	492	MG/KG	
			MAGNESIUM	=	1590	MG/KG	
			MANGANESE	=	46.2	MG/KG	
			SODIUM	=	417	MG/KG	
			NICKEL	=	3.66	MG/KG	
			LEAD	=	6.15	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.44	MG/KG	
			ZINC	=	75.4	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS13S0001	7/10/2002	SW8260B	CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS13S0001	7/10/2002	SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS13S0001	7/10/2002	SW8270C	DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	

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Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS13S0001	7/10/2002	SW8330	4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS14S0001		D2216	MOISTURE, PERCENT	=	15.3	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	ND	0	MG/KG	
		M8015V	PHC as GASOLINE	=	0.27	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1230	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	29.8	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	247000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	5.36	MG/KG	
			IRON	=	1000	MG/KG	
			POTASSIUM	ND	0	MG/KG	
			MAGNESIUM	=	1040	MG/KG	
			MANGANESE	=	20.2	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS14S0001	7/10/2002	SW6010B	SODIUM	=	1070	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	3.05	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	2.65	MG/KG	
			ZINC	=	24	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	
			CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS14S0001	7/10/2002	SW8260B	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	
			ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS14S0001	7/10/2002	SW8270C	2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS14S0001	7/10/2002	SW8270C	N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	
			2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	
DP63SS15S0001		D2216	MOISTURE, PERCENT	=	14.2	PERCENT	
		M8015D	MOTOR OILS	ND	0	MG/KG	
			PHC as DIESEL FUEL	TR	7.5	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS15S0001	7/10/2002	M8015V	PHC as GASOLINE	TR	0.076	MG/KG	
		SW6010B	SILVER	ND	0	MG/KG	
			ALUMINUM	=	1890	MG/KG	
			ARSENIC	ND	0	MG/KG	
			BARIUM	=	64.6	MG/KG	
			BERYLLIUM	ND	0	MG/KG	
			CALCIUM	=	219000	MG/KG	
			CADMIUM	ND	0	MG/KG	
			COBALT	ND	0	MG/KG	
			CHROMIUM	ND	0	MG/KG	
			COPPER	=	10.9	MG/KG	
			IRON	=	1710	MG/KG	
			POTASSIUM	=	664	MG/KG	
			MAGNESIUM	=	1820	MG/KG	
			MANGANESE	=	34.1	MG/KG	
			SODIUM	=	557	MG/KG	
			NICKEL	ND	0	MG/KG	
			LEAD	=	7.37	MG/KG	
			ANTIMONY	ND	0	MG/KG	
			SELENIUM	ND	0	MG/KG	
			THALLIUM	ND	0	MG/KG	
			VANADIUM	=	4.29	MG/KG	
			ZINC	=	30.8	MG/KG	
		SW7471A	MERCURY	ND	0	MG/KG	
		SW8260B	ACETONE	ND	0	UG/KG	
			BROMODICHLOROMETHANE	ND	0	UG/KG	
			BROMOCHLOROMETHANE	ND	0	UG/KG	
			BROMOMETHANE	ND	0	UG/KG	
			BENZENE	ND	0	UG/KG	
			TOLUENE	ND	0	UG/KG	
			CARBON DISULFIDE	ND	0	UG/KG	
			CHLOROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS15S0001	7/10/2002	SW8260B	CHLOROETHANE	ND	0	UG/KG	
			CHLOROMETHANE	ND	0	UG/KG	
			CARBON TETRACHLORIDE	ND	0	UG/KG	
			DIBROMOCHLOROMETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHANE	ND	0	UG/KG	
			1,2-DICHLOROETHANE	ND	0	UG/KG	
			1,1-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,2-DICHLOROETHYLENE	ND	0	UG/KG	
			trans-1,2-DICHLOROETHENE	ND	0	UG/KG	
			cis-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			trans-1,3-DICHLOROPROPENE	ND	0	UG/KG	
			1,2-DICHLOROPROPANE	ND	0	UG/KG	
			ETHYLBENZENE	ND	0	UG/KG	
			2-HEXANONE	ND	0	UG/KG	
			METHYL ETHYL KETONE (2-BUTANONE)	ND	0	UG/KG	
			METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	0	UG/KG	
			METHYLENE CHLORIDE	ND	0	UG/KG	
			1,1,2,2-TETRACHLOROETHANE	ND	0	UG/KG	
			TETRACHLOROETHYLENE(PCE)	ND	0	UG/KG	
			STYRENE	ND	0	UG/KG	
			BROMOFORM	ND	0	UG/KG	
			tert-BUTYL METHYL ETHER	ND	0	UG/KG	
			1,1,1-TRICHLOROETHANE	ND	0	UG/KG	
			1,1,2-TRICHLOROETHANE	ND	0	UG/KG	
			TRICHLOROETHYLENE (TCE)	ND	0	UG/KG	
			CHLOROFORM	ND	0	UG/KG	
			VINYL ACETATE	ND	0	UG/KG	
			VINYL CHLORIDE	ND	0	UG/KG	
			M,P-XYLENE (SUM OF ISOMERS)	ND	0	UG/KG	
			O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0	UG/KG	
		SW8270C	ACENAPHTHENE	ND	0	UG/KG	
			ACENAPHTHYLENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS15S0001	7/10/2002	SW8270C	ANTHRACENE	ND	0	UG/KG	
			BENZYL BUTYL PHTHALATE	ND	0	UG/KG	
			bis(2-CHLOROETHOXY) METHANE	ND	0	UG/KG	
			bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ND	0	UG/KG	
			bis(2-CHLOROISOPROPYL) ETHER	ND	0	UG/KG	
			bis(2-ETHYLHEXYL) PHTHALATE	ND	0	UG/KG	
			4-BROMOPHENYL PHENYL ETHER	ND	0	UG/KG	
			BENZO(a)ANTHRACENE	ND	0	UG/KG	
			BENZO(a)PYRENE	ND	0	UG/KG	
			BENZO(b)FLUORANTHENE	ND	0	UG/KG	
			BENZO(g,h,i)PERYLENE	ND	0	UG/KG	
			BENZO(k)FLUORANTHENE	ND	0	UG/KG	
			4-CHLORO-3-METHYLPHENOL	ND	0	UG/KG	
			CHRYSENE	ND	0	UG/KG	
			4-CHLOROANILINE	ND	0	UG/KG	
			2-CHLOROPHENOL	ND	0	UG/KG	
			2-CHLORONAPHTHALENE	ND	0	UG/KG	
			4-CHLOROPHENYL PHENYL ETHER	ND	0	UG/KG	
			DIBENZ(a,h)ANTHRACENE	ND	0	UG/KG	
			DIBENZOFURAN	ND	0	UG/KG	
			3,3'-DICHLOROBENZIDINE	ND	0	UG/KG	
			1,2-DICHLOROBENZENE	ND	0	UG/KG	
			1,3-DICHLOROBENZENE	ND	0	UG/KG	
			1,4-DICHLOROBENZENE	ND	0	UG/KG	
			2,4-DICHLOROPHENOL	ND	0	UG/KG	
			DIETHYL PHTHALATE	ND	0	UG/KG	
			2,4-DIMETHYLPHENOL	ND	0	UG/KG	
			DIMETHYL PHTHALATE	ND	0	UG/KG	
			4,6-DINITRO-2-METHYLPHENOL	ND	0	UG/KG	
			DI-n-BUTYL PHTHALATE	ND	0	UG/KG	
			DI-n-OCTYLPHTHALATE	ND	0	UG/KG	
			2,4-DINITROPHENOL	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS15S0001	7/10/2002	SW8270C	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			FLUORENE	ND	0	UG/KG	
			FLUORANTHENE	ND	0	UG/KG	
			HEXACHLOROBUTADIENE	ND	0	UG/KG	
			HEXACHLOROCYCLOPENTADIENE	ND	0	UG/KG	
			HEXACHLOROBENZENE	ND	0	UG/KG	
			HEXACHLOROETHANE	ND	0	UG/KG	
			INDENO(1,2,3-c,d)PYRENE	ND	0	UG/KG	
			ISOPHORONE	ND	0	UG/KG	
			2-METHYLPHENOL (o-CRESOL)	ND	0	UG/KG	
			4-METHYLPHENOL (p-CRESOL)	ND	0	UG/KG	
			2-METHYLNAPHTHALENE	ND	0	UG/KG	
			NAPHTHALENE	ND	0	UG/KG	
			N-NITROSODIPHENYLAMINE	ND	0	UG/KG	
			N-NITROSODI-n-PROPYLAMINE	ND	0	UG/KG	
			2-NITROANILINE	ND	0	UG/KG	
			3-NITROANILINE	ND	0	UG/KG	
			4-NITROANILINE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			2-NITROPHENOL	ND	0	UG/KG	
			4-NITROPHENOL	ND	0	UG/KG	
			PENTACHLOROPHENOL	ND	0	UG/KG	
			PHENANTHRENE	ND	0	UG/KG	
			PHENOL	ND	0	UG/KG	
			PYRENE	ND	0	UG/KG	
			1,2,4-TRICHLOROBENZENE	ND	0	UG/KG	
			2,4,5-TRICHLOROPHENOL	ND	0	UG/KG	
			2,4,6-TRICHLOROPHENOL	ND	0	UG/KG	
		SW8330	2-AMINO-4,6-DINITROTOLUENE	ND	0	UG/KG	
			4-AMINO-2,6-DINITROTOLUENE	ND	0	UG/KG	
			1,3-DINITROBENZENE	ND	0	UG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

Holloman Air Force Base
DP63 Remedial Investigation
July-September 2002
Sample Results

Location	Sample Date	Method	Parameter	Boolean	Value	Units	EPA Qualifier
DP63SS15S0001	7/10/2002	SW8330	2,4-DINITROTOLUENE	ND	0	UG/KG	
			2,6-DINITROTOLUENE	ND	0	UG/KG	
			OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE	ND	0	UG/KG	
			2-NITROTOLUENE	ND	0	UG/KG	
			3-NITROTOLUENE	ND	0	UG/KG	
			4-NITROTOLUENE	ND	0	UG/KG	
			NITROBENZENE	ND	0	UG/KG	
			HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	ND	0	UG/KG	
			TETRYL	ND	0	UG/KG	
			1,3,5-TRINITROBENZENE	ND	0	UG/KG	
			2,4,6-TRINITROTOLUENE	ND	0	UG/KG	
		SW9014	CYANIDE	ND	0	MG/KG	

EPA Qualifier J = estimated detect based on QC criteria

EPA Qualifier UJ = estimated non-detect based on QC criteria

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: FOSTER WHEELER	Date Collected:	01/22/03
Project	: HOLLOMAN AFB, RI/FS DP63	Date Received:	01/23/03
Batch No.	: 03A153	Date Extracted:	01/24/03 15:08
Sample ID:	DP63-MW01	Date Analyzed:	01/24/03 15:08
Lab Samp ID:	A153-01	Dilution Factor:	1
Lab File ID:	RAC295	Matrix :	WATER
Ext Btch ID:	VO67A20	% Moisture :	NA
Calib. Ref.:	RAC188	Instrument ID :	T-O67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1	.2
1,1,2,2-TETRACHLOROETHANE	ND	1	.3
1,1,2-TRICHLOROETHANE	ND	1	.2
1,1-DICHLOROETHANE	ND	1	.2
1,1-DICHLOROETHENE	ND	1	.2
1,2-DICHLOROETHANE	ND	1	.2
1,2-DICHLOROPROPANE	ND	1	.2
2-BUTANONE (MEK)	ND	10	5
2-HEXANONE	ND	10	1
4-METHYL-2-PENTANONE (MIBK)	ND	10	1
ACETONE	ND	10	2
BENZENE	ND	1	.2
BROMOCHLOROMETHANE	ND	1	.2
BROMODICHLOROMETHANE	ND	1	.2
BROMOFORM	ND	1	.2
BROMOMETHANE	ND	2	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	1	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	2	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	2	.4
CIS-1,2-DICHLOROETHENE	ND	1	.2
CIS-1,3-DICHLOROPROPENE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
ETHYLBENZENE	ND	1	.2
M/P-XYLENES	ND	2	.3
MTBE	ND	1	.2
METHYLENE CHLORIDE	ND	2	1
O-XYLENE	ND	1	.2
STYRENE	ND	1	.2
TETRACHLOROETHENE	ND	1	.2
TOLUENE	ND	1	.2
TRANS-1,2-DICHLOROETHENE	ND	1	.2
TRANS-1,3-DICHLOROPROPENE	ND	1	.2
TRICHLOROETHENE	ND	1	.2
VINYL ACETATE	ND	2	.7
VINYL CHLORIDE	ND	1	.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	63-143
BROMOFLUOROBENZENE	97	63-143
TOLUENE-D8	94	63-143

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: FOSTER WHEELER	Date Collected:	NA
Project	: HOLLOMAN AFB, RI/FS DP63	Date Received:	01/24/03
Batch No.	: 03A153	Date Extracted:	01/24/03 05:59
Sample ID:	MBLK1W	Date Analyzed:	01/24/03 05:59
Lab Samp ID:	VO67A20B	Dilution Factor:	1
Lab File ID:	RAC280	Matrix :	WATER
Ext Btch ID:	VO67A20	% Moisture :	NA
Calib. Ref.:	RAC188	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1	.2
1,1,2,2-TETRACHLOROETHANE	ND	1	.3
1,1,2-TRICHLOROETHANE	ND	1	.2
1,1-DICHLOROETHANE	ND	1	.2
1,1-DICHLOROETHENE	ND	1	.2
1,2-DICHLOROETHANE	ND	1	.2
1,2-DICHLOROPROPANE	ND	1	.2
2-BUTANONE (MEK)	ND	10	5
2-HEXANONE	ND	10	1
4-METHYL-2-PENTANONE (MIBK)	ND	10	1
ACETONE	ND	10	2
BENZENE	ND	1	.2
BROMOCHLOROMETHANE	ND	1	.2
BROMODICHLOROMETHANE	ND	1	.2
BROMOFORM	ND	1	.2
BROMOMETHANE	ND	2	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	1	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	2	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	2	.4
CIS-1,2-DICHLOROETHENE	ND	1	.2
CIS-1,3-DICHLOROPROPENE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
ETHYLBENZENE	ND	1	.2
M/P-XYLENES	ND	2	.3
MTBE	ND	1	.2
METHYLENE CHLORIDE	ND	2	1
O-XYLENE	ND	1	.2
STYRENE	ND	1	.2
TETRACHLOROETHENE	ND	1	.2
TOLUENE	ND	1	.2
TRANS-1,2-DICHLOROETHENE	ND	1	.2
TRANS-1,3-DICHLOROPROPENE	ND	1	.2
TRICHLOROETHENE	ND	1	.2
VINYL ACETATE	ND	2	.7
VINYL CHLORIDE	ND	1	.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	63-143
BROMOFLUOROBENZENE	99	63-143
TOLUENE-D8	91	63-143

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: FOSTER WHEELER
PROJECT: HOLLOMAN AFB, RI/FS DP63
BATCH NO.: 03A153
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO67A20B	VO67A20L	VO67A20C		
LAB FILE ID:	RAC280	RAC278	RAC279		
DATE EXTRACTED:	01/24/0305:59	01/24/0304:46	01/24/0305:22	DATE COLLECTED:	NA
DATE ANALYZED:	01/24/0305:59	01/24/0304:46	01/24/0305:22	DATE RECEIVED:	01/24/03
PREP. BATCH:	VO67A20	VO67A20	VO67A20		
CALIB. REF:	RAC188	RAC188	RAC188		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10	10.6	106	10	10.6	106	0	70-130	30
Benzene	ND	10	10.5	105	10	10.6	106	0	70-130	30
Chlorobenzene	ND	10	10.5	105	10	10.6	106	1	70-130	30
Toluene	ND	10	10.6	106	10	10.6	106	0	70-130	30
Trichloroethene	ND	10	10.7	107	10	10.6	106	1	60-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10	9.55	96	10	9.54	95	70-130
Bromofluorobenzene	10	8.95	90	10	8.97	90	70-130
Toluene-d8	10	9.16	92	10	9.22	92	70-130

APPENDIX B

HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW) DRILLING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP05
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: Holloman AFB, NM	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-08-2002	11.DATE COMPLETED: 7-08-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 46.43' bgs @ temp well, 45.90' bgs @ DP08, 47.90' @ DP06 7/16/02	

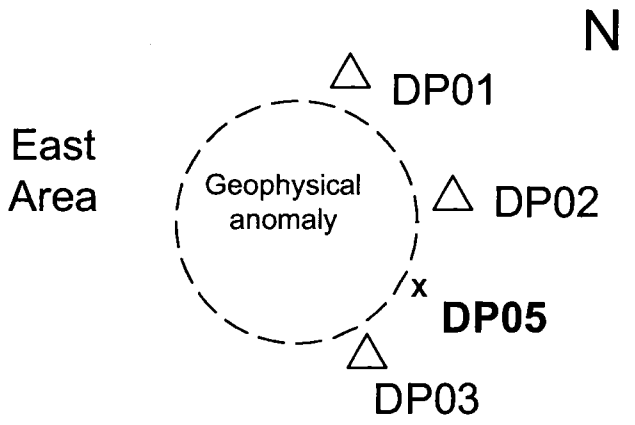
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP05S0401	X	X	X	X	X	
DP63DP05S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP05S2001	X			Patty Weston		

22.DISPOSITION OF HOLE: hole plugged with hydrated bentonite	SCALE 1 in. = 250 ft.

LOCATION SKETCH/COMMENTS

Same location as surface soil sample DP63550150001



△ PA/SI sample location

QC: CL Brewer 8/25/02

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP05

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP05

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White - lt. tan fine sandy silts, clasts to 2", dry, caliche, 10% coarse sand. No cementation	ML	Bkgd = 0.7 0.5' = 2.7ppm FID	2' of core
	2	2-3' Orange tan sandy silty clay, stiff, dry, low plasticity	CL		
	3	3-4' Lt. reddish tan silt/mud fine sand, dry	ML		2' of core
	4	4-4.5' Same as above clasts to 2"			
	5	4.5-5' Tan clayey silt, moist	ML-CL	Bkgd = 1.3 4-5' = 1.3ppm FID	Sample from 4-5' for lab analysis
	6	5-6' Reddish tan fine sandy silt, moist, occasional clay lenses			2' of core
	7	Lt. reddish tan, same as above. Well graded.	ML-CL		2' of core
	8				
	9	Lt. reddish tan, same as above. No clay lenses	ML	Bkgd = 1.3 9-10' = 1.3ppm FID	Sample from 9-10' for lab analysis 2' of core
	10				
	11	Same as above.	ML		2' of core
	12	Same as above.	ML		
	13				
	14				
	15				
	16	White-tan silty fine sand, mod. cementation.	SM		12-16' - 3'10" of core
	17	White-lt. red w/ orange oxidation lenses fine sand.	SM		Orange oxidation
	18	Tan fine sandy silt.	ML		
	19	Fine silty sand moist.	SM		16-19' - 3'10" of core
		Lt. brown fine sandy silt, silty sand, moist, no cementation.	ML-SM		Sample from 20-21' for lab analysis.

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP05

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
Holloman AFB, NM	DP-63	DP05

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	3 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Silty sand, dark brown, dry, loose fine sand, trace coarse sand	SM		2' of core
	21				TD = 21 ft
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP05

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP06
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-15-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 47.90' 7/16/02	
14.TOTAL DEPTH OF HOLE: 52.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 46.43' bgs @ temp well loc 7/16/02	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

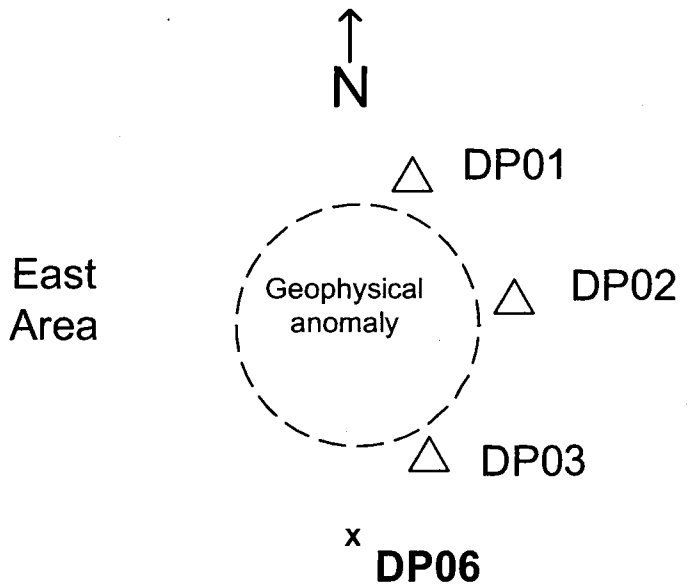
20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP06S0401	X	X	X	X	X	
DP63DP06S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP06S2401 DP63DP06S4601	X			Patty Weston		

22.DISPOSITION OF HOLE: hole plugged with hydrated bentonite

SCALE 1 in. = 250 ft.

LOCATION SKETCH/COMMENTS

Same location as surface soil sample DP63550250001



△ PA/SI sample location

QC: CL Biernbaum 8/25/02

Note: screened for UXO to 12' also 14-16' overlap from 7/9/02 to 7/15/02 sampling.

PROJECT Holloman AFB DP-63 RI | HOLE NO. DP63-DP06

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP06

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White - lt. tan fine sandy silt, dry, moderate - poor cementation	ML		1'10" of core
	2	same as above.	ML		1'10" of core
	3 4	Tan-orange silty sand, moist, well sorted, weak, no plast.	ML	Bkgd = 0.15 4-5' = 4.09ppm FID	Sample from 4-5' for lab analysis 2' of core
	5 6	Same as above w/ tan clays to 0.5 cm (clay)	SM		2' of core
	7 8	Same as above.	SM		2' of core
	9 10	Same as above.	SM	Bkgd = 0.87 9-10' = 4.64ppm FID	Sample from 9-10' for lab analysis 2' of core
	11 12 13	Same as above.	SM	Bkgd = 0.64 14.5' = 0.94ppm FID	3' of core
	14	Same as above, black spot at 14-14.5'.	SM/ML		Rxn to HCl 2' of core
	15 16 17	White-lt. orange fine silty sand.	SM		weak Rxn to HCL
	18	Lt. tan-white silty sand.	SM		3' of core
	19	Lt. yellow-orange silty sand w/occ clay; gray clay laminations orange oxidation, no cementation.	SM-CL		No Rxn to HCl 18-20' 20-21' weak Rxn orange oxidation 3' of core particles

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP06

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP06

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Same as above; Mod. Cementation.	SM		
	21	Same as above to 22.5'	SM		Rxn to HCl
	22				Orange oxidation staining
		Brown silty clay, stiff w/ oxidation.	CL		
	23	Red silty stiff clay w/ 20% gypsum/calcite xtls.	SM		21'-24' - 3'6" of core
	24				
	25	brown silty sandy clay, dry, sand lenses, weak 20% gypsum/ calcite xtls in clay.	CL-SM	Bkgd = 0.66 25' = 1.81ppm FID	Rxn to HCl sample at 24-25' for lab analysis
	26				3'10" of core
	27	Red sandy silty clay, dry, weak, 20% xtls.	CL		Rxn to HCl
	28	Red silty sand w/ clay lenses.	SM		26.5'-29' - 3'6" of core
	29	reddish/brown silt to 30.5'	ML	Bkgd = 0.56	Rxn to HCl
	30	red clay lens at 29.5'			
		Brown/tan clayey sandy silt w/ orange ox. stains.	CL	30' = 1.12ppm FID	Orange oxidation staining
	31	Same red/brown silt.	ML		3'10" of core
	32	Laminated red clay and clayey silty sand w/ oxidation blebs at 33.5'	CL-SM		Rxn to HCl
	33				
	34	Orange fine silty sand, dry	SM		3'6" of core
		Sandy orange clayey silt.	ML		
	35	Red silty clay w/ white xtls, stiff.	CL		No Rxn to HCl in sand; Rxn in clay
	36	Orange silty sand moist	SM		
	37	Laminated red clay/red silt, red sand, well graded.	ML (CL/SM)		3'10" of core
	38	Red-orange fine-med silty sand. Poorly sorted.	SM		No Rxn to HCl in sand; Rxn in clay
		Laminated silty red clay lenses in silty sand.	SM/ML		expansion cracks in core
	39	Red silty stiff clay.	CL		3'10" of core

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP06

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
dp-63	Holloman AFB, NM	DP06

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41	Alternating red well-graded med-fine sand and red silty sandy clay.	SM CL SM CL	Bkgd = 0.3 42.5' = 2.03ppm FID	Rxn to HCl
	42	White, as above.	SM		3'10" of core
	43	Red silt w/ gypsum xlts.	ML		Rxn to HCl to 44.5'
	44	Lt. tan gypsum-rich sand.	SM		No rxn with white sand.
		White very fine sand, mod. cementation	SM		3'10" of core
	45 46	Red dry silty clay stiff. xtls to .25 cm	CL	Bkgd = 0.5 45' = 2.77ppm FID	Rxn to HCl (moderate to violent) (cement) sample at 46.5'-47.5' for lab analysis
	47	Tan fine sand. Poorly sorted. cementation last to 1".	SM		3'10" of core
	48	Wet sand, gray, fine-med	SM		wet at 47.5'
		Moist white silt.	ML		
	49	Lt. tan very fine silty sand.	SM		
		Lt. tan clayey silt. weak non-plastic core cemented to sampler.	ML		3'10" of core
	50 51 52	Wet gray med fine sand alt. w/ orange sandy silty clay and fine orange sand. well graded	SM-CL		3'10" of core
	53 54 55				TD = 52.5

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP06

HTRW DRILLING LOG

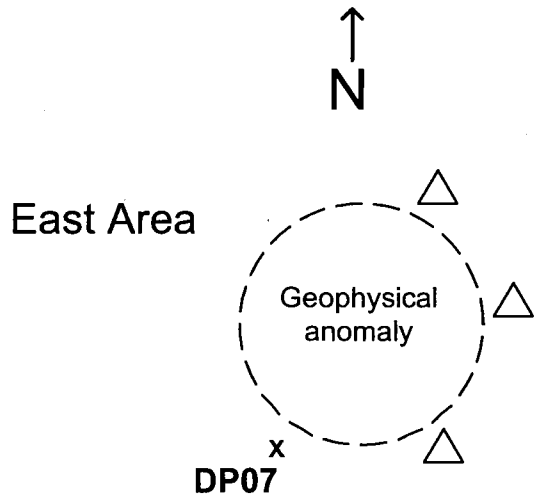
DISTRICT: OMAHA		HOLE NUMBER: DP07
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-16-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: 46'	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 50.20' bgs 7/24/02	
14.TOTAL DEPTH OF HOLE: 54.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 45.9' bgs DP08 47.90' DP06 7/16/02	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP07S0401	X	X	X	X	X	
DP63DP07S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP07S2401,2,3	X			Patty Weston		
DP63DP07S4301,2,3						

22.DISPOSITION OF HOLE: temporary piezometer	SCALE 1 in. = 100 ft.

LOCATION SKETCH/COMMENTS



△ PA/SI sample location

QC: C L Bienvenu 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP07

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP07

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White - lt. tan sandy silt w/ clay clasts. "caliche" dry, weak. Poorly sorted.	ML		2' of core
	2	Clay-rich pink sandy silt. moderate sorting. weak. moist.	ML		
	3	Tan sandy silt lt mod. sorting, laminated, weak. clay lenses/ partings cl cm	ML/CL		2' of core
	4	Orange sands silt as below.	SM		
		Clay-rich tan low-plast med bine silty sand <5%	SC	Bkgd = 0.74	Sample from 4-5' for lab analysis.
	5	Fine sandy silt/ silty sand. orange small roots. Clasts of brown clay grades to fine sand.	SM	5' = 4.0ppm FID	2' of core
	6	Brown silty sand clasts of clay to 0.5"	SM		
	7	Orange silty fine sand. well sorted. moist.	SM		2' of core
	8	Orange silty fine sand. well sorted. clay clasts to 2".	SM	Bkgd = 1.33	Sample from 9-10' for lab analysis
	9			9' = 8.46ppm FID	2' of recovery
	10	Fine silty sand well sorted. grades from lt. orange to pale tan. weak. dry. changes to clayey silt in last 6"	ML		
	11				2' of recovery
	12	Pale tan fine silty sand, orange oxidation streaks. Well Sorted.	SM	Bkgd = 0.9	oxidation (orange staining) ivo Rxn to HCl
	13			13' = 1.0ppm FID	
	14				3' of core
	15	Lt. yellow brown sandy clayey fine silt.	ML	Bkgd = 0.3	
	16			17' = 5.2ppm FID	Rxn to HCL 15-17' not 17-18'
	17	Lt. orange/yellow silty fine sand.	SM		3'4" of core
	18	Same as above w/ orange patches of oxidation.	SM	Bkgd = 1.6	no Rxn to HCl 19-20'
	19			20' = 5.0ppm FID	Rxn 20-21'
					3'6" of core

PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP07

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP07

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		red clay, stiff, strong, low plasticity = 20% xtls (gypsum)	CL		expansion cracks in core
	21				
	22	red brown sandy silty clay w/ fine sand lenses. Laminated dry 20% coarse sand-sized xtls (gypsum?)	CL	Bkgd = 0.3 22.5' = 8.2ppm FID	rxn in expansion cracks in core 3'10" of core
	23				
	24				
	25	alternating layers - dark red brown sandy silt, silty sand and clay. dry. stratifed.	ML-SM-CL	Bkgd = 0.3 24-27' = 8.2ppm FID	sample at 24-27' for lab analysis Rxn to HCl 3'10" of core
	26				
	27	Sandy, clayey orange silt. well sorted	ML		Rxn to HCl
	28	Red and green commingled clay. tough no plasticity, 30% silty sand. dry.	CL		3'6" of core
	29				
		Red silty clay (50% silt) mod stiff. no plasticity.	CL	Bkgd = 0.1 31' = 3.4ppm FID	Rxn to HCl
	30	Lt. gray green fine sandy silt, dry.	CL		
	31	Red and gray clay commingled. dry.	CL		Xtls in clay. 3'10" of core
	32	Grayish green clay, dry, stiff; no plasticity.	CL		Rxn as above to 34'
	33	Lt. gray green fine sandy silt, dry.	ML		No rxn 34-34.5'
	34	Red clay, stiff, tough no plasticity.	CL		Expansion cracks in core 3'10" of core
	35	red clay as above 20% silty-sand size xtls.	CL		Rxn to HCl Expansion cracks in core
	36	tan fine sand lenses 36-38'			3'10" of core
	37	See above.	CL-SM		Rxn in clays, no rxn in sands.
	38	Red-orange fine silty sand. white weak clay layers. Clay is plastic.	CL		3' of core
	39	Lt. orange sandy clayey silt. weak. 5% coarse sand.	ML		

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP07

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
dp-63	Holloman AFB, NM	DP07

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41	Alternating red well-graded med-fine sand and red silty sandy clay.	CL		Rxn to HCl 3'10" of core
	42 43	White and red commingled clay. red: strong stiff , white: weak sandy silty clay w/ black clasts to 1". with yellow sand lens	CL SM CL		Rxn to HCl sample taken at 43-46.5' for lab analysis 3'10" of core
	44 45 46	Red and tan stiff sandy silty clay w/ sand lenses. Wet at ~ 46.5'	CL SM CL	Bkgd = 1.0 45.5' = 6.4ppm FID	Rxn to HCl 3'10" of core
	47 48 49	Wet red clay, gypsum xtls to 1 cm.	CL		no rxn to HCl 3'10" of core
	50	See above.	CL		rxn to HCl @ 51'
	51	Lt. tan silty moist tough clay.	CL		3'10" of core
	52 53 54 55				TD - 51.5'

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP07

HTRW DRILLING LOG

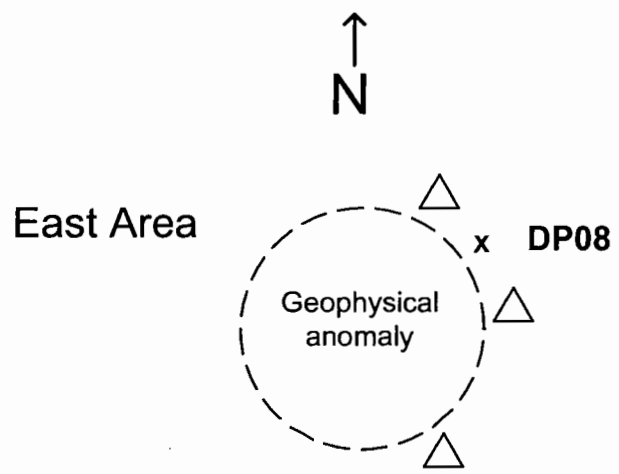
DISTRICT: OMAHA		HOLE NUMBER: DP08
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-15-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: 48'	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 45.90' bgs 7/16/02	
14.TOTAL DEPTH OF HOLE: 52.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 47.9' bgs DP08 47.90' DP06 7/16/02	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP08S0401	X	X	X	X	X	
DP63DP08S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP08S2401	X			Patty Weston		
DP63DP08S4401						

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 100 ft.

LOCATION SKETCH/COMMENTS



△ PA/SI sample location

QC: C L Brennis 8/25/02

Note: UXO clearance to 12'

PROJECT **Holloman AFB DP-63 RI** | HOLE NO. **DP63-DP08**

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP08

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Top 2" brown soil. Rest: lt pink-orange fine sandy silt. Clast of clay to 0.25" "caliche" Dry. no plast. no strength.	MH/OH ML		2' of core
	2 3	Lt. orange mosit silty sand alt. clast (clay) to 0.25"	SM		1'9" of core
	4 5	See above. No clasts.	SM	Bkgd = 2.0 5' = 9.2ppm FID	Sample from 4-5' for lab analysis 2' of core
	6 7	See above.	SM		2' of core
	8 9 10 11	Orange. clay, friable sandy silt to fine silty sand dry.	ML/SM	Bkgd = 2.0 9' = 6.1ppm FID	Sample from 9-10' for lab analysis 3'10" of core
	12	Lt. orange silty fine sand dry.	SM	Bkgd = 0.0	
	13	White silty fine sand, dry	SM		Rxn to HCl 12-13' and 14-15' No Rxn in white sand
	14	Lt. orange silty fine sand, no clasts, no cementation, dry.	SM	14' = 5.4ppm FID	3'10" of core
	15 16 17	Same as above, weak cementation.	SM	Bkgd = 0.2 17' = 3.8ppm FID	Rxn to HCL 3' of core
	18 19	Same as above, no cementation.	SM	Bkgd = 0.2 20' = 6.6ppm FID	Rxn to HCl

PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP08

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP08

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
			SM		3' of core
	21	Same as above to 22'.	SM	Bkgd = 0.22	
	22	Fine, lt. orange sandy silt w/ clay laminations, brown dry noplasticity, stiff.	ML-CL	22' = 6.4ppm FID	rxn to HCl 3'10" of core
	23 24 25 26	Brown sandy silty clay, dry, stiff, mod toughness	CL	Bkgd = 0.42 25' = 5.7ppm FID	sample at 24-25' for lab analysis Rxn to HCl 3' of core
	27	Same as above, red.	CL		Rxn to HCl
		Brown silty sandy clay.	ML		
	28	Brownish-orange fine silty sand, dry.	CL		3'6" of core
	29	Red sandy silty clay dry. no plasticity, stiff.	CL		Rxn to HCl
	30	Red fine sand, dry.	SM	Bkgd = 0.41 31' = 5.44ppm FID	
	31	Red sandy clay, dry. No plasticity.	CL		3'10" of core
	32 33 34	Red and greenish-gray silty sandy clay 20-50% silty sand moderate plasticity weak, no strength.	CL	Bkgd = 0.24 34' = 0.45ppm FID	Rxn to HCl Expansion cracks in core. 3'10" of core
	35 36 37	Red and greenish gray silty sandy clay w/ lenses of sandy silt, whitish pale gray, low plasticity, weak well graded.	CL-ML	35' = 0.0ppm FID	Rxn to HCl 3'10" of core
	38 39	Red silty sandy clay w/ lens of lt gray silty plastic, soft clay at 37.8-37.9'	CL		Rxn to HCl 3'10" of core

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP08

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP08

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41	Alternating red well-graded med-fine sand and red silty sandy clay.	CL-SM	Bkgd = 0.2 40' = 0.6ppm FID	3'10" of core
	42 43	same as above. lenses of white moist sand.	CL-SM	Bkgd = 0.12 43' = 1.2ppm FID	Rxn to HCl (white xtls) not in clay. 3' of core
	44	White silty fine sand, moist.	SM	Bkgd = 0.25	Sample from 44-45' for lab analysis
	45	Lt. tan silty clayey fine sand.	SM	45' = 0.90ppm FID	Rxn to HCl 3'10" of core
	46	Grayish-orange silty sandy clay, moist, mod toughness, low plasticity.	CL	Bkgd = 0.28	Rxn to HCl
	47	Tan-white sandy silt, moist.	ML	47.5' = 0.88ppm FID	3' of core
	48	Wet red low plasticity clay.	CL		Rxn to HCl @ 51'
	49	Sandy silty gray clay. stiff. low plasticity.	CL		
	50	White silty sand w/ black lenses < 5 mm thick.	SM		3'10" of core
	51 52	Lt. yellow brown wet sandy clay/silt.	CL-ML	Bkgd = 0.39 50' = 1.42ppm FID	No rxn 50-51' Rxn 51-52.5' 3'10" of core
	53 54 55				TD = 52.5'

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP08

HTRW DRILLING LOG

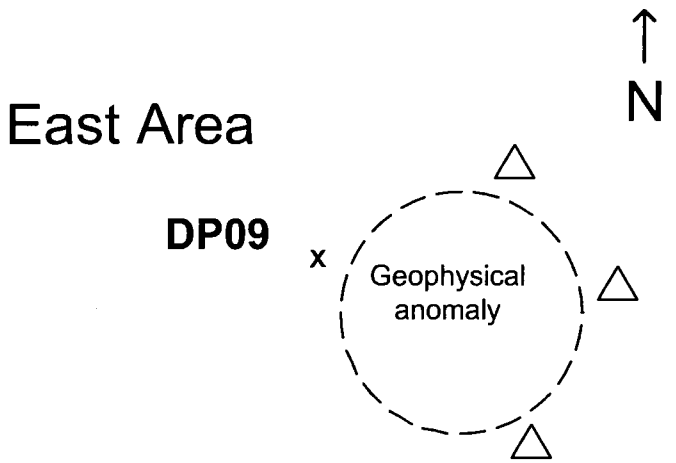
DISTRICT: OMAHA		HOLE NUMBER: DP09
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-09-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 45.9' bgs DP08, 47.90' DP06 7/16/02	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP09S0401	X	X	X	X	X	
DP63DP09S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP09S2001	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 100ft.

LOCATION SKETCH/COMMENTS



△ PA/SI sample location

Note: UXO clearance to 12'

QC: C L Bienvenis 8/25/02

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP09

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP09

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. pink-orange sandy silt w/ clay. Laminated with clasts to 1". Dry, no strength. 1.5' - lt. orange lam. clay-rich stiff	ML		1'7" of core
	2 3	Grades from lt. orange laminated dry clay rich silt to fine orange sandy silt at 3'. No clasts, well sorted. Dry.	ML		2' of core
	4 5	Orange moist fine, well-graded sandy silts, no clasts. Silty sand.	ML/SM	Bkgd = 1.64 5' = 10.12ppm FID	Sample from 4-5' for lab analysis 2' of core
	6 7	Same as above.	ML/SM		2' of core
	8 9	Same as above.	ML/SM	Bkgd = 2.64 9' = 9.02ppm FID	Sample from 9-10' for lab analysis 2' of core
	10 11	Same as above.	ML/SM		2' of core
	12 13 14	Same as above to 12.5' 12.5' color orange to greenish-yellowish/lt.brown fine silty sand/sandy silt with darker modules of sand. Orange oxidation patch at 13', 2mm wide by 2" long	ML/SM		3' of core
	15 16 17	Lt. tan silty clay-rich sandy silt. No strength oxidation nodules. Grades to laminated silty clay, dark tan w/ ox. nodules. Moderate strength, no plasticity.	ML/CL		3' of core
	18 19	10" (to 18'10") dk. tan silty clay. Grades to dk brown, mod strong clay. w/ silty lens at 19.5' sandy.	CL/SM	Bkgd = 1.0 20' = 13.04ppm FID	Sample taken at 19.5-21' sample had clay/sand lens

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP09

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP09

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		See previous page.			3'10" of core
	21				TD = 21'
	22				
	23				
	24				
	25				
	26				
	27				
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PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP09

HTRW DRILLING LOG

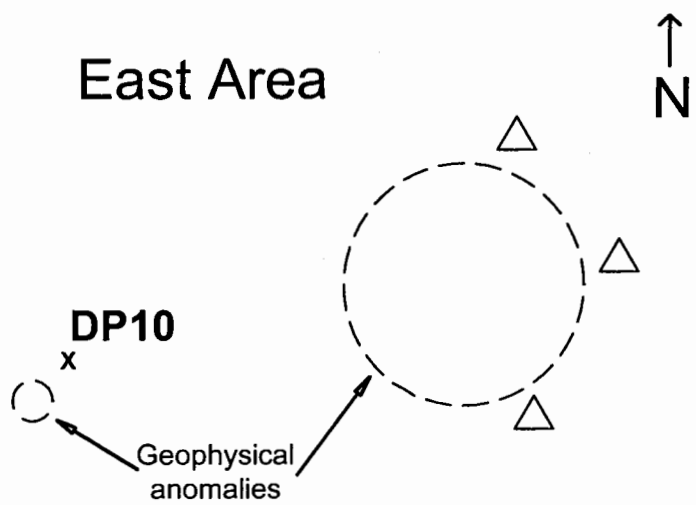
DISTRICT: OMAHA		HOLE NUMBER: DP10
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, East Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-09-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 47.9' bgs DP06, 7/16/02	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP10S0401	X	X	X	X	X	
DP63DP10S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP10S2001	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 100 ft.

LOCATION SKETCH/COMMENTS



△ PA/SI sample location

Note: UXO clearance to 12'

QC: CL Bienvenu 8/25/02

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP10

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP10

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Soil and sandy silt. Dry, pink-white w/ tan clasts of silty clay. No strength.	ML		1'6" of core
	2				
	3	Lt. tan laminated sandy silt, silt to 3.5. Dry. 3.5' - tan silty fine sand. Moist.	ML		2' of core
	4	Lt. orange moist fine silty sand. Well sorted.	SM	Bkgd = 1.82 4' = 12ppm FID	Sample taken at 4-5' for lab analysis 2' of core
	5				
	6	Lt. orange to lt. yellow-brown silty fine sand/sandy silt.	SM/ML		2' of core
	7				
	8	Lt. orange to white fine silty sand/ sandy silt to 9'. 9' fine orange silty sand moist.	ML/SM	Bkgd = 0.24 9' = 9.4ppm FID	Sample taken at 9-10' for lab analysis 2' of core
	9				
	10	Same as above.	SM		2' of core
	11				
	12	Same as above.	SM		3' of core
	13				
	14				
	15	Orange silty fine sand with a few coarse sand-sized clasts of clay.	SM		3'10" of core
	16				
	17				
	18			Bkgd = 1.43	
	19	Same as above.	SM	20' = 13.5ppm FID	Sample taken at 20-21'

PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP10

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP10

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		See previous page.			for lab analysis.
	21				TD = 21'
	22				
	23				
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PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP10

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP11
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, West Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-09-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 41.42' at DP13	

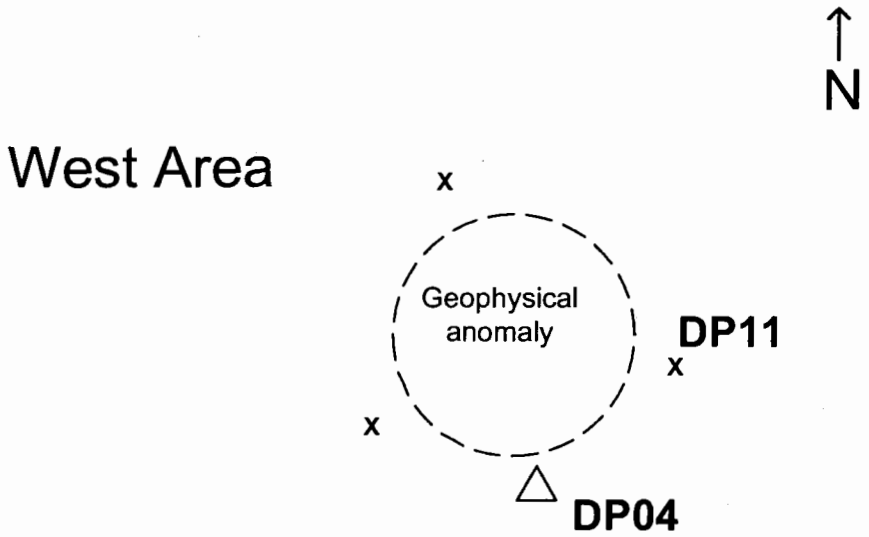
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP11S0401	X	X	X	X	X	
DP63DP11S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP11S2001	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 20 ft.

LOCATION SKETCH/COMMENTS

No surface sample taken at this location.



△ PA/SI sample location

QC: C L Bremulis 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP11

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP11

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White to lt. tan sandy silt, Clasts to 2" dry, loose. (no strength)	ML		1'8" of core
	2	See above.	ML		
	3	Tan to lt. orange-brown sandy silt / very fine sand. Dry weak. More dense than above.	ML/SM		2' of core
	4	Orange fine silty sand moist, well sorted.	SM	Bkgd = 3.0 5' = 3.0ppm FID	Sample taken at 4-5' at 1350 7/9/02 2' of core
	6	Same as above.	SM		2' of core
	8	Same as above.	ML/SM	Bkgd = 3.4 9' = 3.4ppm FID	Sample taken at 9-10' at 1410 7/9/02 2' of core
	10	Same as above with patches of lt tan silty fine sand.	SM		2' of core
	12	Same as above with clasts of clayey brown to tan (alt. of granitic material, potentially volc. tuff)	SM		3' of core
	15	Red/brown dk clay lens. Moderate strength. No plasticity high toughness. Grades into orange/red silty sand.	CL		3' of core
	18	Moderately cemented med. strength, sandy silt. Grades into lt orange silty sand. 19' - see next page.	SM	Bkgd = 3.3 19' = 3.3ppm FID	Sample taken at 1435 7/10/02 at 20-21' in clay.

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP11

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP11

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Dark brown clay. high toughness. low plast. lam. w/ occ sandy layers weakly strat.			
	21				TD = 21'
	22				
	23				
	24				
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PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP11

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP12
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, West Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-09-2002	11.DATE COMPLETED: 7-09-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 41.42' at DP13 7/24/02	

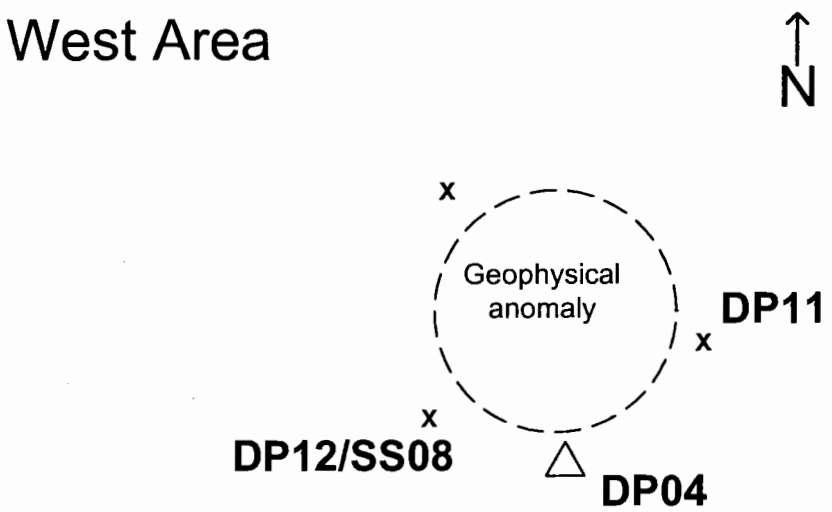
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP12S0401	3	3	3	3	3	
DP63DP12S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP12S2001	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 20 ft.

LOCATION SKETCH/COMMENTS

SS08 also collected at this location (surface soil sample)



QC: CL Bierinlig 8/25/02

△ PA/SI sample location

Note: Screened for UXO to 12'.

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP12

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP12

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. orange sandy silt/ silty clay, dry, low, plasticity, no strength.	ML/CL ML/SM		2' of core
	2 3	Orange fine sandy silt w/ clasts of clay, dry, no plasticity, weak.	ML		
		Orange fine silty sand, moist weak. Well Sorted.	SM		2' of core
	4 5	Same as above.	SM	Bkgd = 2.3 FID	Sample taken at 4-5' for lab analysis 2' of core
	6 7	Same as above.	SM		2' of core
	8 9	Same as above.	SM	Bkgd = 3.2 9' = 3.2ppm FID	Sample taken at 9-10' for lab analysis 2' of core
	10 11	Same as above.	SM		2' of core
	12 13 14	Same as above.	SM		3' of core
	15 16 17	Same as above.	SM		3' of core
	18 19	Same as above.	SM	Bkgd = 3.6 20' = 3.8ppm FID	3'10" of core.

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP12

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP12

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Brown clay, strong, low plasticity 1 cm xtls, dry.	CL		expansion cracks in core (~1 cm apart)
	21				TD = 21'
	22				
	23				
	24				
	25				
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PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP12

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP13
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, West Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-10-2002	11.DATE COMPLETED: 7-16-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: wet at ~ 40'-43'	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 41.18' bgs 7/17/02 (1 day)	
14.TOTAL DEPTH OF HOLE: 48.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 41.42' bgs 7/24/02	

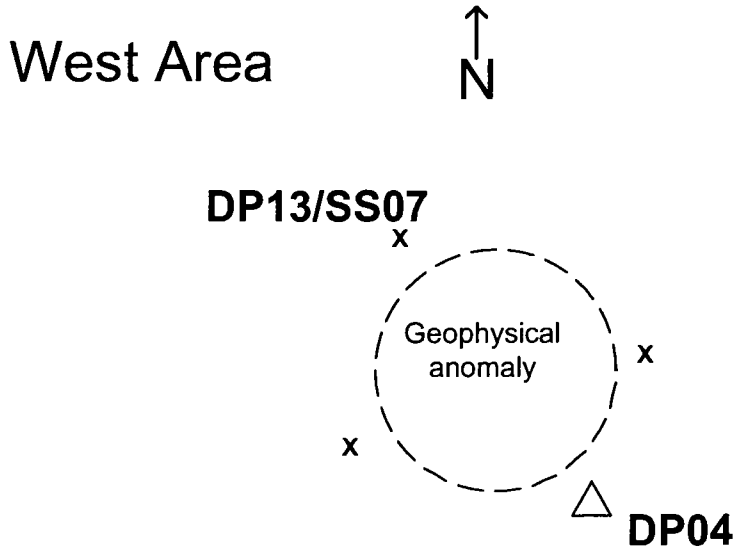
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP13S0401	X	X	X	X	X	
DP63DP13S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP13S2401	X			Patty Weston		
DP63DP13S3901						

22.DISPOSITION OF HOLE: temporary monitoring well location (piezometer)	SCALE 1 in. = 20 ft.

LOCATION SKETCH/COMMENTS

SS07 also collected at this location.



QC: CL Bienvenu 8/25/02

△ PA/SI sample location

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP13

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP13

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. orange-tan sandy clayey silt, caliche, dry, no strength.	ML		1'9" of core
	2	Same as above.			
	3	3-4' fine sandy orange silt. a few small roots.	ML		1'9" of core
	4	Lt. orange slightly moist fine silty moderately well sorted, weak.	ML	Bkgd = 0.60	
	5			4.5' = 2.65ppm FID	1'10" of core
	6	Same as above.			
	7		ML		1'11" of core
	8			Bkgd = 0.8	black organic patches
	9	Same as above. Black (organic) blechs/small patches	ML	9-10' = 2.1ppm FID	2' of core
	10				
	11	Lt. orange fine well-sorted sand	SM		2' of core
	12			Bkgd = 0.23	slight staining at 14'
	13	Lt. orange fine silty sand, slightly moist.	SM		
	14			14' = 5.2ppm FID	Rxn to HCL
		Lt. orange fine sandy clayey silt.	ML		3' of core
	15			Bkgd = 0.7	
	16	Lt. orange silty sand and sandy silt, well sorted, moist.	SM-ML		Rxn to HCL
	17			17' = 4.32ppm FID	3' of core
	18	Laminated orange sandy silt and dark red sandy silty clay. Well Graded.	ML-CL		No Rxn to HCl
	19				18-20' Rxn to HCl 20-21'
					3'10" of core

PROJECT Holloman AFB DP-63 PA/RI

HOLE NO. DP63-DP13

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP13

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Red silty sandy clay, 40% sand/silt, dry, no to low plasticity, mod strength.	CL		
	21	Lt. orange sandy silt/silty clay, dry, weak	ML-CL		Rxn to HCl
	22				Expansion cracks in core
	23	Dark red silty clay, dry, moist, stiff, strong. Patches of lt. brown sandy silt.	CL		3'10" of core
	24	Green and red commingled very tough clay, no plasticity dry.	CL	Bkgd = 1.1	Rxn to HCl
	25	Yellowish red sandy silty clay, dry stiff, mod tough.	SM-ML	26' = 9.3ppm FID	
	26	Lt. orange fine sand and green weak clayey silt.			3'10" of core
	27	Gray and red silty sandy clay lens of sandy silt 27.5'	CL		Rxn to HCl
	28				
	29	Red sandy silty clay.	CL		3'10" of core
	30	Red silty sandy clay, dry, weak.	CL	Bkgd = 1.32	Rxn to HCl to 32'
	31			30.5' = 6.35ppm FID	No Rxn 32-34' (white sand) expansion cracks in core
	32	Greenish gray fine sand and white fine sand.	SM		3'10" of core
	33	White fine sand, moist weak.	SM	Bkgd = 0.25	Rxn to HCl 34-35'
	34	Red silty clay (30% silt) w/ greenish gray and orange clay lens, hard.	SM	33' = 5.0ppm FID	3'10" of core
	35	Red silty clay, (30% silt) moist, soft, low plasticity gypsum xtls to 0.5 cm.	CL	Bkgd = 1.54	Rxn to HCl
	36			36' = 7.25ppm FID	3'4" of core
	37	Red sandy silty clay, no strength, moist.	CL	Bkgd = 1.43	weak rxn to HCl (none in clay or gypsum xtls)
	38	Red clay w/ 0.5 cm gypsum xtls ~30%, very stiff, low plasticity.	CL	37-38' = 16.8ppm FID	3'10" of core
	39	red sandy silty clay, moist	CL	Bkgd = 1.74 39' =6.2 ppm FID	Sample from 39-40' for lab analysis 3' of core

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP13

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP13

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Red silty clay, w/ gypsum xtls to 3 cm. ~50% gypsum/ calcite, 41' mod plasticity, med stiff.	CL		Weak Rxn only in minor calcite
	41	Reddish brown gypsum-rich clay mod-low plasticity 20% gypsum/calcite - 70%, medium stiff, wet.	CL	No h.s. below water table	Rxn to HCl 3'10" of core
	42				
	43				
	44	Red Clay, wet, little to no H2O production.	CL	No h.s. below water table	No Rxn to HCl 3'10" of core
		Grayish orange gypsum-rich clayey silt, soft, mod plastic.	CL		
	45				
	46	Grayish red gypsum rich clay, mod H2O production.	CL	No h.s. below water table	No rxn to HCl 3'10" of core
	47				
	48	White-yellow silty fine sand to medium sand, wet.	SM		
	49				TD = 48.5'
	50				
	51				
	52				
	53				
	54				
	55				

PROJECT	HOLE NO.
Holloman AFB DP-63 PA/RI	DP63-DP13

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP14
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, North Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-10-2002	11.DATE COMPLETED: 7-11-2002
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: very moist at 43.5'	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 49.5' (7/12/02) 49.27' (7/15/02)	
14.TOTAL DEPTH OF HOLE: 58.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

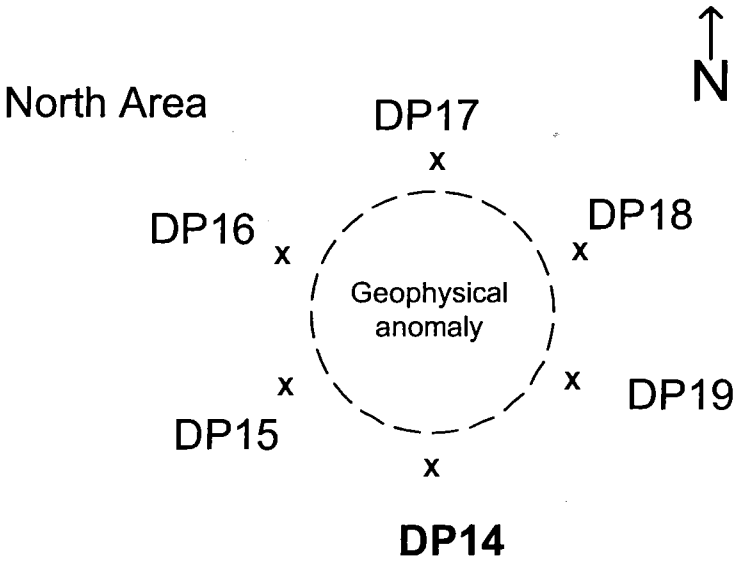
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP14S0401	X	X	X	X	X	
DP63DP14S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP14S2401	X			Patty Weston		
DP63DP14S4701						

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS10S0001 taken from this location.



RC: CL Bierwirth 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP14

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP14

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	lt. orange-brown sandy silt, dry, weak, clast to 2"	ML		1'10" of core
	2	Same as above.	ML		
	3	Laminated clay and fine silty clayey sand, orange, weak.	SM		1'10" of core
	4	Fine orange silty sand w/clay lenses, weak cementation.	SM	Bkgd = 2.4 4.5' = 4.8ppm FID	Sample from 4-5' for lab analysis
	5				1'10" of core
	6	Fine yellow-orange sandy silt, dry, weak.	ML		
	7	Lt. orange silty sand, moist, well sorted, weak.	SM		2' of core
	8	Same as above.	SM	Bkgd = 1.05 9-10' = 3.5ppm FID	Sample from 9-10' for lab analysis
	9				2' of core
	10	Same as above.	SM		
	11				2' of core
	12	Same as above.	SM		
	13				
	14				3'3" of core
	15	Red-orange fine silty sand, moist, weak.	SM	Bkgd = 0.4 17-18' = 1.4ppm FID	
	16				
	17				3' of core
	18	Dense orange silty sand.	SM	Bkgd = 1.1 20' = 3.9ppm FID	Staining? (black spots)
	19				3'8" of core

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP14

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP14

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
			SM		
	21	Yellow-brown fine silty sand w/ laminated silty clay lenses, plastic.	SM/CL		
	22	22-24' yellow-brown sandy silt and red-brown sandy silt and red-brown clayey silty sand laminations	CL-ML		3'10" of core
	23				
	24	Red well-sorted silty sand, moist.	SM	Bkgd = 1.7 24' = 8.8ppm FID	Sample from 24-25' for lab analysis.
	25	Brown silty clay, very stiff, low plasticity w/ sandy silt lenses and patches.	CL-ML		Expansion cracks in core. 3'10" of core
	26	Red and greenish-brown sandy clay w/ white clay clasts, 30% coarse sand, stiff, low plasticity.	CL		Expansion cracks in core.
	27				
	28				3'9" of core
	29	Same as above.	CL		
	30	Red brown silty clay, mod stiff, 30% xtls, dry.	ML		
	31	Green brown silty clay, as above.	CL		3'9" of core
	32	Redish brown silty clay ~30% xtls, dry w/ red silt lenses.	ML	Bkgd = 1.5 32' = 2.8ppm FID	
	33				3'10" of core
		Red clayey sandy silt, dry weak.	CL		
	34	Redish brown clay and silt, well graded, moist, weak.	CL		Oxidation patches ~0.2 cm in diameter
	35	Reddish brown xtls-rvec clay, grades to greenish gray at 36.5' % patches.	ML		
	36				3'10" of core
		Reddish brown silty clay w/black streaks.	CL	Bkgd = 1.6 37'= 3.5ppm 38.5'= 6.5ppm FID	Staining, black streaks
	37	Olive green to lt brown clayey silt.	CL		
	38	Red silty clay mod plast. stiff.	ML		3'10" of core
	39	Red and green commingled silty clay.	CL		3'10" of core

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP14

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP14

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41 42	10-30% gypsum/clacite xtls, w/ orange oxidation patches.	CL		Orange oxidation patches 3'10" of core
	43	Red silty clay 5-50% sand.	CL	bkgd = 1.58 44' = 13.3ppm FID	
	44	White fine silty sand and clay, moist soft.	SM-CL		3'10" of core
	45	White silty clay, low plasticity, moist, soft.	CL	bkgd = 2.9 6' = 13.5ppm FID	
	46	Fine yellow silty sand, moist.	SM		3'10" of core
	47 48	Lt. brown silty clay w/ weak sandy silt lenses. Stiff, to mod. plasticity.	CL ML CL	bkgd = 2.5 47.5' = 8.5ppm FID	Sample from 47-48' for lab analysis 3'10" of core
	49 50 51	Lt. brown clay 10-20% gypsum xtls, moist, soft, no H2O production.	CL		3'10" of core
	52 53	Same as above w/ oxidation patches.	CL	bkgd = 2.16 52' = 9.3ppm FID	oxidation patches 3'10" of core
	54 55 56	Brown-red silty clay, 30% gypsum / calcite sandy-silt sized. clogged sampler.	CL	bkgd = 2.70 54' = 16.5ppm FID	3'10" of core
	57 58	Free water at 57' saturated brown sandy clay through out core, no strength, mod plasticity.	CL	no h.s.	3'10" of core
	59				TD = 58.5'

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP14

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP15
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, North Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-10-2002	11.DATE COMPLETED: 7-12-02
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 49.27' bgs 7-15-02	
14.TOTAL DEPTH OF HOLE: 52'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

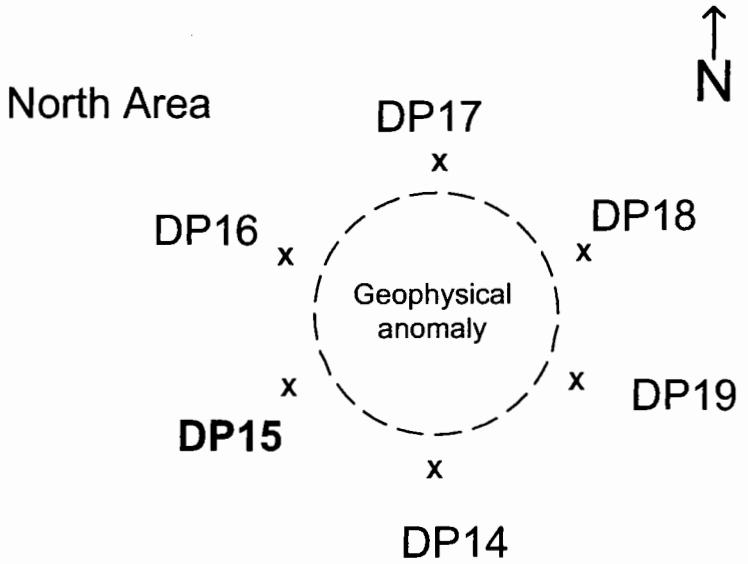
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP15S0401	X	X	X	X	X	
DP63DP15S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP15S2401	X			Patty Weston		
DP63DP15S4701						

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS11S0001 taken from this location.



QC: C L Bienvenu 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP15

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP15

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	It yellow brown sandy silt and silty clay, dry, caliche, clasts to 2" poorly sorted	ML/CL		2' of recovery
	2	White sandy silty clay, dry, clasts to 2".	ML		
	3	Orange fine sandy silt grades to fine silty sand.	ML SM		2' of recovery
	4	Orange fine silty sand, moist, well sorted weak.	SM	Bkgd = 0.32	Sample from 4-5' for lab analysis
	5			4.5' = 3.6ppm FID	1'10" of recovery
	6	Same as above.	SM		
	7				2' of recovery
	8	Same as above.	SM	Bkgd = 1.08	sample from 9-10' for lab analysis
	9			9-10' = 4.05ppm FID	
	10	Same as above. Occasional clasts to ~1 cm.	SM		
	11				2' of recovery
	12	Same as above. No Clasts.	SM	Bkgd = 0.1	
	13				
	14			14.5' = 1.7ppm FID	3'3" of recovery
	15				
	16	Same as above.	SM		
	17				3' of recovery
	18	Same as above to 19.5'	SM	Bkgd = 0.0	
	19	19.5' It tan silty sand, dry		19' = 3.7ppm FID	2' of recovery

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP15

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP15

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	21	19.5-22' lt. brown fine sandy silt, 2" clasts gray low plasticity, dry silty clay patches of orange oxidation.	SM	Bkgd = 0.35 22' = 2.3ppm FID	orange oxidation 2'6" of core
	22	Same as above.	SM		
	23	Reddish orange sandy silt/fine silty sand dry, clayey no strength low plast.	ML-SM		2'3" of core
	24	Red fine well sorted sand.	SM	Bkgd = 0.6 24.5' = 3.9ppm in sand FID	sample from 24-25' for lab analysis
	25 26	Greenish brown and reddish orange silty 5-20% gypsum, dry weak to very stiff.	CL		3'10" of core
	27 28 29	Grayish green sandy clay stiff, strong, low plasticity 10-30% gypsum xtls.	CL		3'10" of core
	30	Same as above.	CL	Bkgd = 1.01 30' = 4.6ppm FID	expansion cracks in clay
	31	Dark reddish brown silty sandy clay, very stiff 10-40% gypsum / calcite xtls.	CL		3'10" of core
	32 33 34	Reddish brown and greenish brown silty clay 10% xtls gypsum / calcite, dry, stiff, moderate strength	CL	Bkgd = 1.01 34-34.5' = 3.05ppm FID	expansion cracks in core 3'10" of core
	35	Very stiff red clay w/ 3 cm gypsum xtls.	CL		
	36	Greenish brown clay, 34.5-37' stiff to hard xtls silty sand-sized.	CL		3'10" of core
	37 38	Same greensih brown clay as above 5-50% silty sand-sized xtls.	CL		3'10" of core
	39	39-40.5' green and red very stiff clay 10-30% sandy silt sized xtls.	CL	Bkgd = 1.4 40'= 3.6ppm FID	3'10" of core

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP15

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP15

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Red w/ green very stiff clay ~40% xtls.	CL		Expansion cracks in core
	41	Same as above.	CL	bkgd = 1.38	
	42	Red/green silty sandy clay, moist, soft plastic.	CL	43' = 3.1ppm FID	3'10" of recovery
	43				
	44	Same as above w/ sandy lens at 44.5'.	CL (SM)	bkgd = 1.16	
	45	Red clayey silt very moist, soft.	ML	44.5' = 1.69ppm FID	3'10" of recovery
	46	Very stiff brown clay grades to clayey silt, mod. strength, low plast. soft.	CL	bkgd = 1.32	Sample from 47-48' for lab analysis
	47			47.5' = 4.13ppm FID	3'10" of recovery
	48	Lt. brown silty clay, medium stiff, low plasticity.	ML	bkgd = 1.26	
	49	Red stiff clay moist 10% sand (gypsum).	CL	49' = 2.6ppm FID	3'10" of recovery
	50				
	51	Wet to moist reddish brown clay, stiff, no H2O production.	CL	no head space	3'10" of recovery
	52				TD = 52'
	53				
	54				
	55				
	56				
	57				
	58				
	59				

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP15

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP16
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, North Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-10-2002	11.DATE COMPLETED: 7-10-02
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 49.27' bgs @ DP15 7-15-02	

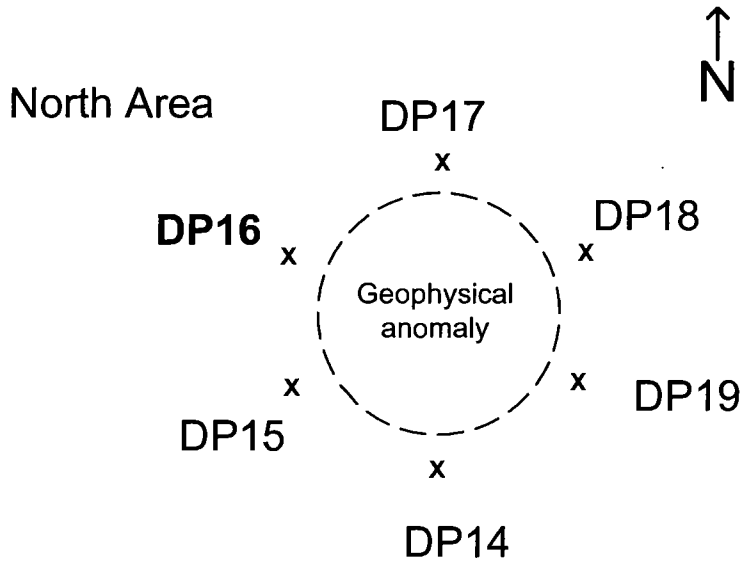
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP16S0401	X	X	X	X	X	
DP63DP16S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP16S2401 (02, 03 DUPS)	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS12S0001 taken from this location.



QC: CL Breinlis 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP15

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP16

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt yellow orange clayey sandy silt and silty clay. Color grades to lt orange at 2' clasts to 2" dry, weak, low plasticity.	ML/CL		1'11" of core
	2	Caliche as above to 3'.	ML/CL		
	3	Lt. orange silt.	ML		
	4	Clayey silty sand.	SM		1'10" of core
	5	Lt. orange sightly moist silty sand, well sorted, occasional clasts to 1 cm.	SM	Bkgd = 1.58 4.5' = 6.54ppm FID	Sample from 4-5' for lab analysis 1'10" of core
	6 7	Same as above.	SM		2' of core
	8 9	Same as above. No Clasts.	SM	Bkgd = 1.36 9-10' = 6.57ppm FID	sample from 9-10' for lab analysis 2' of core
	10 11	Same as above.	SM		2' of core
	12 13 14	Same as above.	SM		3' of core
	15 16 17	Same as above.	SM		3' of core
	18 19	Sand as above grades to yellow laminated clayey silt. w/ orange oxidation patches.	SM ML		Sample and duplicate for lab analysis 18-21' Orange oxidation staining

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP16

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP16

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
			ML	Bkgd = 1.96 20-21' = 7.1ppm FID	3' of core
	21				TD = 21'
	22				
	23				
	24				
	25				
	26				
	27				
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PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP16

HTRW DRILLING LOG

DISTRICT OMAHA		HOLE NUMBER DP17
1.COMPANY NAME Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE DP-63	4.LOCATION Holloman AFB, NM	
5.NAME OF DRILLER Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Geoprobe 66DT Track Rig	8.HOLE LOCATION DP-63, North Area	
	9.SURFACE ELEVATION N/A	
	10.DATE STARTED 7-10-2002	11.DATE COMPLETED 7-12-02
12.OVERBURDEN THICKNESS N/A	15.DEPTH GROUNDWATER ENCOUNTERED moist at ~47.5' wet at ~49"	
13.DEPTH DRILLED INTO ROCK N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE 53.5'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) 49.27' bgs at DP15	

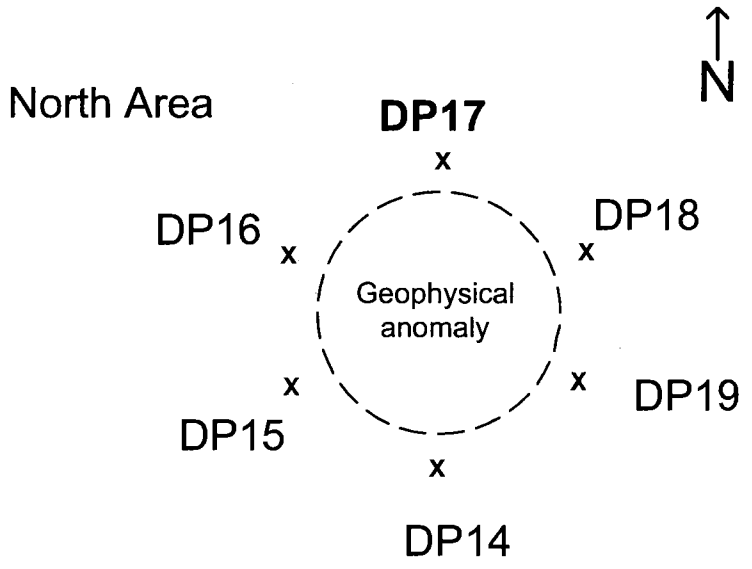
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP17S0401	X	X	X	X	X	
DP63DP17S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP17S2401	X			Patty Weston		
DP63DP17S4701						

22.DISPOSITION OF HOLE hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS130001 taken from this location.



QC: CL Bienvenu 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP17

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP17

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White to lt tan caliche sandy clayey silt, poorly sorted, weak, dry.	ML		2' of core
	2	Same as above.	ML		
	3	Grades to Lt. brown sandy silty clay, low strength, low plasticity, 5% coarse sand.	CL		2' of core
	4	Brownish orange sandy clayey silt.	ML	Bkgd = 2.45	Sample from 4-5' for lab analysis
	5	Grades to orange sand as described below.	SM	4.5' = 9.01ppm FID	2' of core
	6	Mosit lt. orange silty sand, well sorted, slightly moist, no clasts weak.	SM		2' of core
	8	Same as above.	SM	Bkgd = 2.2 9-10' = 6.0ppm FID	Sample from 9-10' for lab analysis 2' of core
	10	Same as above. w/ layers of lt. brown sand <0.2 cm thick.	SM		2' of core
	12	Same as @ 6-8' No Clasts No laminations.	SM	Bkgd = 1.0 14.5' = 2.23ppm FID	3'10" of core (10"slough)
	15	Same as above.	SM		3'4" of core
	18	Same as above w/ black patches < 2mm dia.	SM	Bkgd = 0.95 19.5' = 4.95ppm FID	Black staining

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP17

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP17

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Brown clay and silt layers ~5cm thick in orange silty sand. dry.	SM		sample from 18-21' for lab analysis. 3'10" of core
	21	As above.	CL		
	22	Red orange sand w/ clay lenses.	SM		
	23				3'6" of core
	24	Orange sandy silt / slity sand grades to olive and brownish red dry weak clayey silt.	ML-SM		
	25				
	26	Red and olive green stiff low plast clay.	CL		3'10" of core
	27	Clay as above gary w/ red streaks 30% xtls / gypsum calcite sandy / silty sized.	CL		Expansion cracks in clay
	28				
	29				3'10" of core
	30	Same clay as above, grades to red clay 40-50% xtls.	CL		expansion cracks in clay
	31				3'10" of core
	32	Greenish gray and red clay to 34' as above.	CL		Expansion cracks in core
	33				
	34	Greensih gray clay as above 40% xtls.	CL		3'10" of core
	35	Red and greenish gray clay 20-60% xtls / as above, med. to stiff, low plasticity, dry.	CL		
	36				3'10" of core
	37	Red clay 10-60% sandy silt sized xtls in clay matrix mod.	CL		
	38	Stiff red sandy clayey silt.	ML		3'10" of core
	39	Brown clay 20% xtls, tough / stiff w/ partings.	CL		
		Red to lt tan, medium sand.	SM		

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP17

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP17

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Well sorted w/ yellow ox. coarse sand at bottom.	SM		3'2" of core
	41	Well sorted med-coarse sand.	SM		
	42	Green clay 10% xtls dry, stiff.	CL		Expansion cracks in clay 3' of core
	43	Clay as above w/ orange oxidation patches.	CL	bkgd = 1.36 44' = 1.45ppm FID	Expansion cracks in clay
	44	Yellow-orange clay, moist.	CL		3'4" of core
	45 46	Orange and gray clay, 10-20% silty sand sized xtls, stiff, moist.	CL		No expansion cracks in core. 3'10" of recovery
	47	Yellow brown clay (10% silty sandy xtls), moist, stiff.	CL	bkgd = 1.36	Clay stuck to sampler Sample from 47-48' for lab analysis
	48	Orange lt. brown clay moist, soft, weak, mod plasticity.	CL	47-48' = 1.77ppm FID	3' of core
	49 50	Lt. brown to lt yellow brown sandy clay (10% need sand) wet. no H2O production, low plast, soft.	CL		Filled sampler w/ out driving. 3'10" of core
	51	Yellow - lt. brown clay w/ coarse sand lens at 51.5'.	CL/SM	bkgd = 1.3	
	52	Low plasticity yellow brown wet clay.	CL	51' = 1.3ppm FID	
	53	Yellow brown stiff clay 5% gypsum.	CL		3'10" of core
	54 55 56 57 58 59				TD = 53.5'

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP17

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP18
1. COMPANY NAME: Foster Wheeler Environmental Corp.	2. DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3. SITE: DP-63	4. LOCATION: Holloman AFB, NM	
5. NAME OF DRILLER: Rafe Jones	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8. HOLE LOCATION: DP-63, North Area	
	9. SURFACE ELEVATION: N/A	
	10. DATE STARTED: 7-10-2002	11. DATE COMPLETED: 7-10-02
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: N/A	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 21'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 49.27' bgs @ DP15	

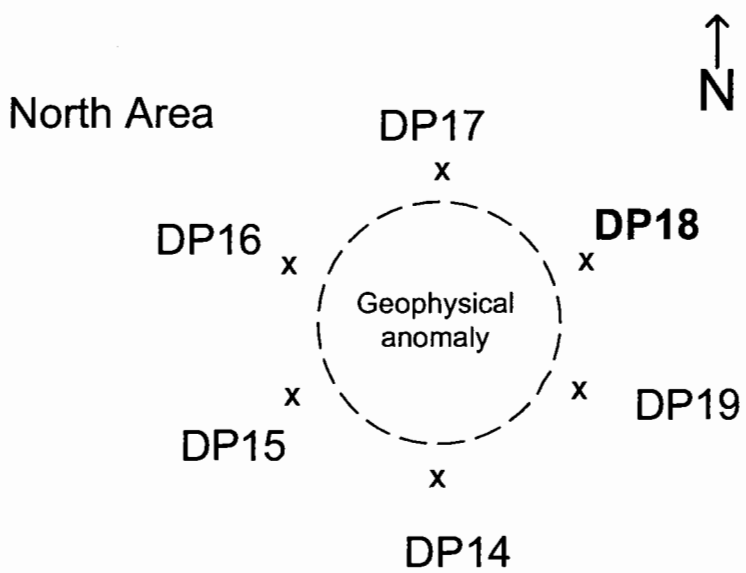
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21. TOTAL CORE RECOVERY %
DP63DP18S0401	X	X	X	X	X	
DP63DP18S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
DP63DP18S2001	X			Patty Weston		

22. DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS14S0001 taken from this location.



QC: CL Bienvenu 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP18

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP18

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White to lt. brown sandy clayey silt, clasts to 2", dry weak.	ML		
		Grades to lt. brown sandy silty weak dry clay.	CL		1'2" of core
	2	Yellow - lt. brown silty sandy clay laminated, well graded moist clast to 1 cm, weak cementation.	CL		
	3				1' of core
	4	Lt. tan clay 2.5 cm clasts, low plast, weak cemenation.	ML/CL	Bkgd = 2.6	Sample from 4-5' for lab analysis
	5	Lt. orange fine clayey silty sand, dry.	SM	4.5' = 8.01ppm FID	1'7" of core
	6	Lt. orange fine silty, well sorted sand, weak, slightly clayey, slightly moist.	SM		
	7				1'7" of core
	8	Same as above.	SM	Bkgd = 2.3	Sample from 9-10' for lab analysis
	9			9-10' = 11.01ppm FID	1'7" of core
	10	Same as above.	SM		
	11				1'8" of core
	12	Same as above.	SM		
	13				
	14				2'11" of core
	15	Same as above.	SM		
	16				
	17				3' of core
	18	Orange sand as above, grades to lt. brown silty sand, dry, weak.	SM	Bkgd = 0.6	Sample and duplicate from 18-21' for lab analysis
	19			19' = 2.9ppm PID	3' of core

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP18

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP18

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		See preivous page.	SM	Bkgd = 0.6 20-21' = 2.9ppm FID	
	21				TD = 21'
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
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	32				
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	39				

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP18

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP19
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 3
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: Rafe Jones	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 66DT Track Rig	8.HOLE LOCATION: DP-63, North Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 7-10-2002	11.DATE COMPLETED: 7-10-02
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: N/A	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 21'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 49.27' bgs @ DP15	

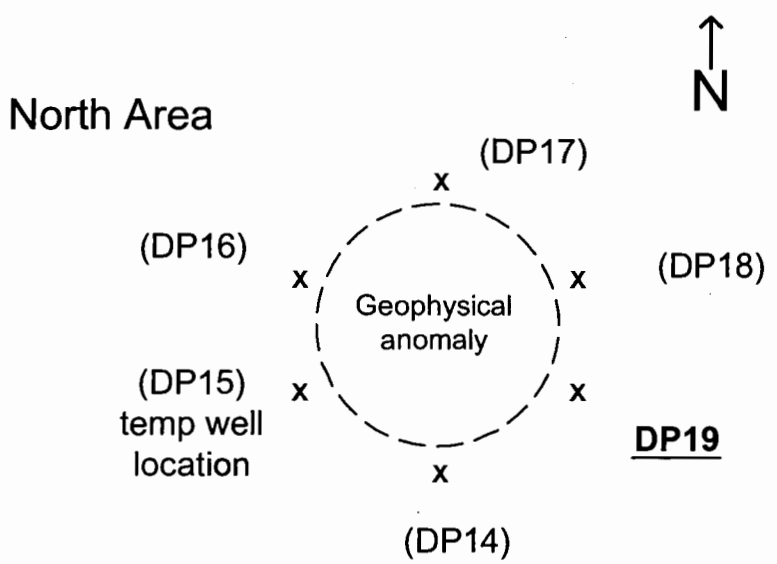
18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
DP63DP19S0401	X	X	X	X	X	
DP63DP19S0901	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR		
DP63DP19S2001 (02, 03 DUPS)	X			Patty Weston		

22.DISPOSITION OF HOLE: hydrated bentonite	SCALE 1 in. = 50 ft.

LOCATION SKETCH/COMMENTS

Surface soil sample DP63SS15S0001 taken from this location.



QC: C.L. Bienvilis 8/25/02

Note: UXO clearance to 12'

PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-DP19

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP19

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	White - lt. tan caliche sandy clayey silt, dry, clasts to 2.5cm.	ML		1'7" of core
	2 3	Same as above grades to lt. tan fine sandy silt. at 3.5'.	ML		2' of core
	4 5	Alternating stratifed layers of caliche and lt orange silty sand.	ML SM ML	Bkgd = 0.24 4.5' = 3.9ppm PID	Sample from 4-5' for lab analysis
		Laminated silty clayey lt brown sand and silt, dry, weak cementation.	SM		2' of core
	6 7	Lt. orange fine silty sand, well sorted, slightly moist, weak.	SM		2' of core
	8 9	Same as above.	SM	Bkgd = 0.34 9-10' = 4.1ppm PID	Sample from 9-10' for lab analysis 2' of core
	10 11	Same as above.	SM		2' of core
	12 13 14	Same as above.	SM		3' of core
	15 16 17	Same as above.	SM		3' of core
	18 19	Lt. orange sand as above w/ 0.2 cm thick dark brown silty clay and coarse sand layers, clay, stiff, strong, low plasticity.	SM CL	Bkgd = 0.26 20-21' = 4.7ppm PID	Sample from 18-21' for lab analysis 3'10" of core

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-DP19

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP19

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	3

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		See previous page.	CL SM		
	21	See previous page.			TD = 21'
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
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PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-DP19

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP63-MW01
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: George Guzman	6.MANUFACTURER'S DESIGNATION OF DRILL: F10WT	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Hollow stem auger, Falling F10WT	8.HOLE LOCATION: Upgradient of DP-63	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 8/21/02	11.DATE COMPLETED: 8/21/02
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: ~ 50 ft.	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14.TOTAL DEPTH OF HOLE: 57 ft.	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

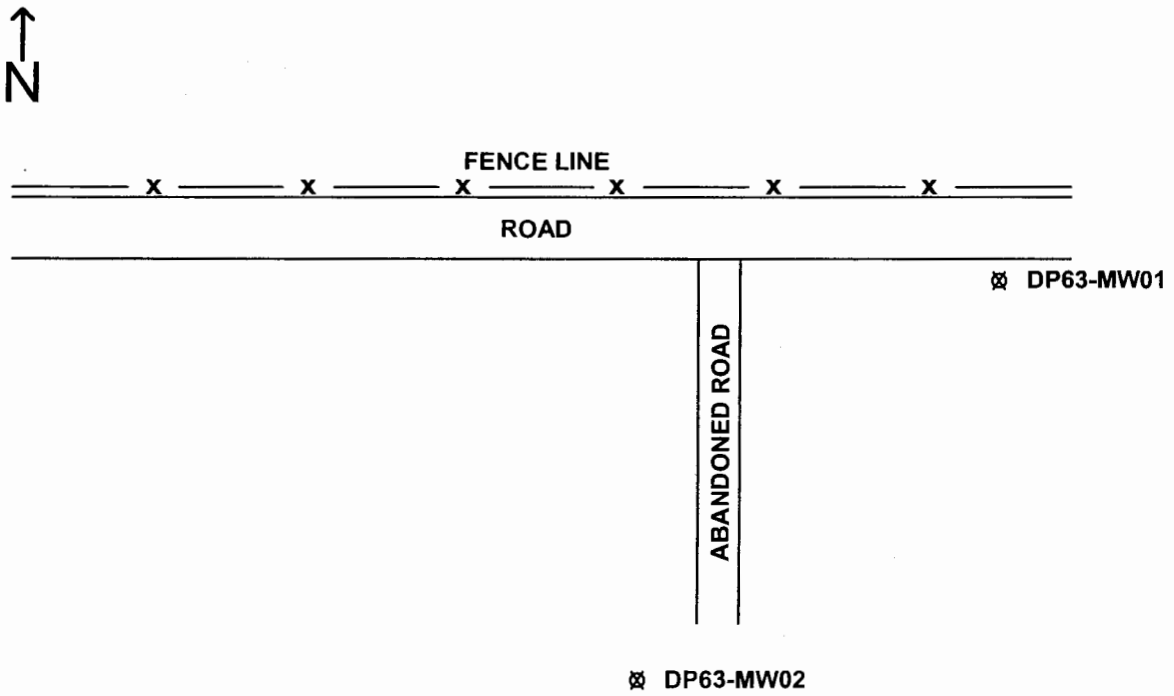
20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
None taken.						

BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR
	X		for Patty Weston

22.DISPOSITION OF HOLE	SCALE
Well Construction	Not to Scale

LOCATION SKETCH/COMMENTS

Note: Log is from cuttings. Depths are given as depth of auger at which cuttings were seen at surface.



PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-MW01

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP63-MW01

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. tan - gray soil, sandy-silty, dry, loose, 7.5YR 7/2	ML		
	2 3	Lt. orange sandy silt / silty sand, dry, loose, 7.5YR 8/3	ML		
	4 5	Lt. orange sandy silt / silty sand, dry, loose, 7.5YR 7/4	ML/SM	In drum: PID = 0.01 ppm, FID = 0.09 ppm	
	6 7 8	Lt. orange very fine silty sand (sandy silt), loose, dry, 7.5YR 7/4	SM/ML		
	9 10	Lt. orange very fine silty sand, loose, dry, 7.5YR 7/6	SM		
	11 12 13	Orange fine silty sand, loose, dry	SM		
	14 15 16 17 18 19	Dark orange, fine silty sand, loose, dry to slightly moist, 5YR 5/6	SM		

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-MW01

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW01

PROJECT #	DISTRICT	INSPECTOR	SHEET / SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF 4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	21, 22, 23, 24	Yellowish-red, silty, coarse, moist, loose, fine sand, 5YR 5/6 & 5YR 5/8	SM		
	25, 26	Same as above with 30% rounded clasts of silty clay, reddish brown (yellowish red), 5YR 4/6	CL/SM		
	27, 28, 29, 30	Same as above with 30% rounded clay balls to 1" of light greenish gray clay/silt, no plasticity, GLEY 1 7/1, dry to slightly moist, matrix is fine silty sand, yellowish red (reddish brown), angular, 5YR 5/6	CL/SM		
	31, 32, 33	Yellowish-red clasts of clayey silt / silty clay, 5YR 5/6 in very fine silty sand, reddish brown sandy silty clay, low to no plasticity in 1" balls, 5YR 4/3	CL		
	34, 35, 36, 37, 38, 39	Dark reddish-brown, fine sandy silty clay / clayey silt, weak, dry, no plasticity, angular clasts with caliche, pink / white coatings, 5YR 4/4	CL/ML		

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-MW01

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW01

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Same as above	CL/ML		
	41	Reddish-brown, slightly moist weak, low plasticity, sandy silty clay, 5YR 4/4	CL		
	42				
	43				
	44	Dark brown, sandy silty clay, xtls to 1 mm, moderately tough	CL		
	45				
	46				
	47	Reddish-brown sandy, silty clay, low plasticity, angular chunks to 2.5", 5YR 4/4	CL		
	48	Brown, low to no plasticity, sandy silty clay, chunks to 3", angular	CL		
	49	Moist, low plasticity, sandy silty clay, white xtls to 1 mm, strong, brown, 7.5YR 4/6	CL		
	50	Same as above.	CL		
	51	Dark yellowish brown, moist, clay, 10YR 4/6	CL		
	52				
	53				
	54				
	55				
	56				
	57				
	58	TOTAL DEPTH = 57 FT.			
	59				

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-MW01

HTRW DRILLING LOG

DISTRICT: OMAHA		HOLE NUMBER: DP63-MW03
1.COMPANY NAME: Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR: R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE: DP-63	4.LOCATION: Holloman AFB, NM	
5.NAME OF DRILLER: George Guzman	6.MANUFACTURER'S DESIGNATION OF DRILL: F10WT	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Hollow stem auger, Falling F10WT	8.HOLE LOCATION: Downgradient well, North Area	
	9.SURFACE ELEVATION: N/A	
	10.DATE STARTED: 8/20/02	11.DATE COMPLETED: 8/20/02
12.OVERBURDEN THICKNESS: N/A	15.DEPTH GROUNDWATER ENCOUNTERED: ~ 49 -50 ft. (Hard layers at 50; called by hammer)	
13.DEPTH DRILLED INTO ROCK: N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: ~12 hours after drilling to 50'	
14.TOTAL DEPTH OF HOLE: 58 ft.	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

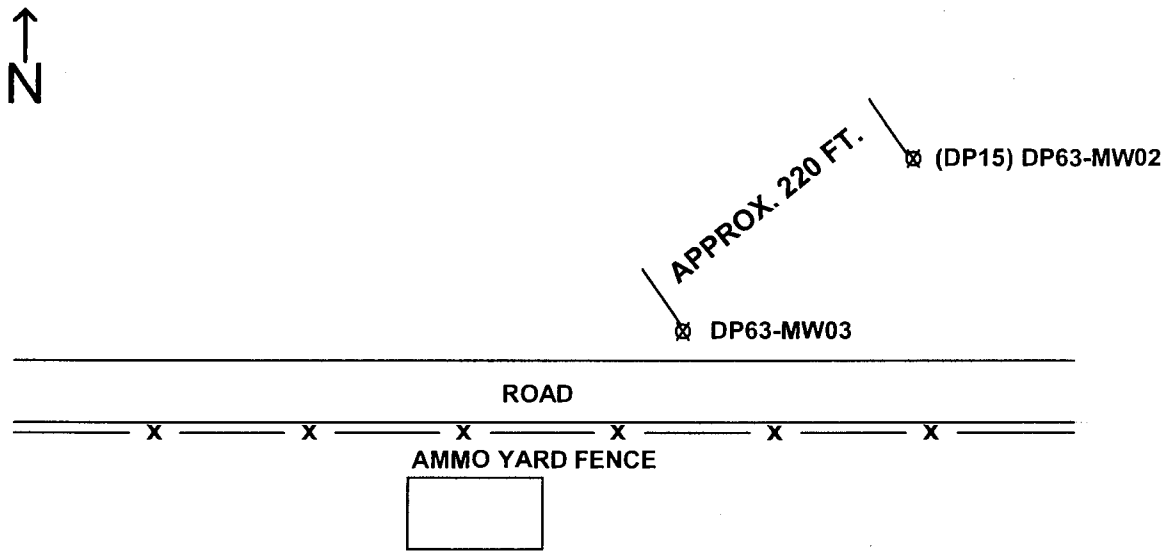
20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
None taken.						

BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR
	X		for Patty Weston

22.DISPOSITION OF HOLE	SCALE
Well Construction	Not to Scale

LOCATION SKETCH/COMMENTS

Note: All depths given are auger depths. Logged from cuttings.



PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-MW03

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP63-MW03

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. pink caliche, fine sandy silt, dry loose, 5YR 8/2	ML		
	5	Lt. orange caliche, sandy silt, dry, loose, 7.5 YR 8/3	ML		
	8	Pink fine sandy silt / silty sand, dry, loose, 5YR 8/4	ML/SM		
	10	Loose, fine sandy silt, dry, pinkish-white, 7.5 YR 8/3	ML		
	13	Yellowish-red/brown, slightly moist, sandy silt / silty sand, loose	ML/SM		
	15	Red-brown, slightly moist, sandy silt / silty sand, loose, 5YR 5/6 (yellowish red)	ML/SM		
	17	Reddish-yellow (orange), fine silty sand, slightly moist, loose	SM		

PROJECT Holloman AFB DP-63 RI

HOLE NO. DP63-MW03

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW03

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	21, 22, 23, 24	Same as above.	SM	1.01 - 0.83 ppmm bz & at drum top	
	25, 26	Dark orange (yellowish red), fine silty sand, slightly moist, loose, 5YR 5/6	SM		
	27, 28	Same as above with fine sandy silt/clay balls, 20% 5YR 4/4 balls, brown, slightly plastic, moist	SM/CL		
	29, 30	Dark yellowish-red (brown), fine sandy silt, 40% clay balls, 5YR 4/6	ML/CL		
	31, 32	Reddish-brown sandy silty clay balls, slightly plastic, moist	CL		
	33, 34	Reddish-brown, sandy silty clay, slightly moist, low plasticity, 5YR 4/4	CL		
	35, 36	Brown (10YR 5/3), silty, low plasticity, clay balls in a reddish-brown silty sand matrix	SM/CL		
	37, 38	Angular clasts of reddish-brown silty clay / clayey silt, no plasticity, 7.5YR 4/3	ML/CL		
	39	Reddish-brown clasts of fine sandy silty clay / clayey silt, no plasticity, 5YR 4/4	ML/CL		

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-MW03

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW03

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41	Reddish-brown slightly moist, silty clay, no plasticity, trace xtls > 0.2 cm, 5YR 4/4	CL		
	42				
	43				
	44				
	45	Brown sandy silty, low plasticity, clay, tough, xtls. 10%, ~ 1mm., angular clasts cuttings to 2"	CL		
	46				
	47	Reddish-brown, moist, moderately plastic, silty sandy clay, ~ 10-15% xtls. to 1 mm, mod tough, 5YR 4/4, caliche clasts at bottom	CL		
	48				
	49				
	50	Below 50 ft., wet "hard" layers according to drillers, no cuttings. Drive rod covered with wet silty clay, brownish-yellow (approx 10YR 6/4).	CL (+caliche?)		
	51				
	52				
	53				
	54				
	55				
	56				
	57				
	58	TOTAL DEPTH = 58 FT.			
	59				

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-MW03

HTRW DRILLING LOG

DISTRICT OMAHA		HOLE NUMBER DP63-MW05
1.COMPANY NAME Foster Wheeler Environmental Corp.	2.DRILL SUBCONTRACTOR R & R Environmental, Inc.	SHEET 1 OF SHEETS 4
3.SITE DP-63	4.LOCATION Holloman AFB, NM	
5.NAME OF DRILLER George Guzman	6.MANUFACTURER'S DESIGNATION OF DRILL F10WT	
7.SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Hollow stem auger, Failing F10WT	8.HOLE LOCATION Downgradient 220 ft from MW-04	
	9.SURFACE ELEVATION N/A	
	10.DATE STARTED 8/19/02	11.DATE COMPLETED 8/20/02
12.OVERBURDEN THICKNESS N/A	15.DEPTH GROUNDWATER ENCOUNTERED ~ 47.77 ft.	
13.DEPTH DRILLED INTO ROCK N/A	16.DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 47.17 ft at 12 hours	
14.TOTAL DEPTH OF HOLE 55 ft.	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None	N/A	N/A	N/A

20.SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	Pest/PCB	Cyanide/TRPH	21.TOTAL CORE RECOVERY %
None taken.						

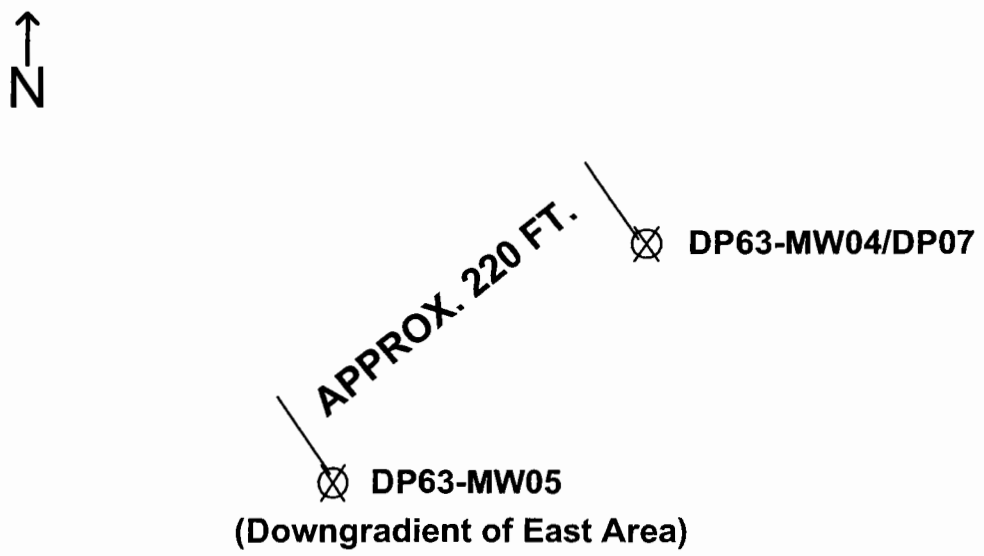
BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23.SIGNATURE OF INSPECTOR
	X		for Patty Weston

22.DISPOSITION OF HOLE	SCALE
Groundwater monitoring well, flush mounted	Not to Scale

LOCATION SKETCH/COMMENTS

Note: Logged from cuttings. Depths shown are auger depths bgs. (ft.)

220 ft, southwest of MW04 in East Area



PROJECT Holloman AFB DP-63 RI	HOLE NO. DP63-MW05

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP63	Holloman AFB, NM	DP63-MW05

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	PATRICIA WESTON	2 OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	1	Lt. pinkish-tan caliche, fine sandy silt, dry, weak, 5YR 8/2	ML		
	2	Lt. pink, sandy silt, dry weak, 5YR 7/3	ML	1.7 ppm	
	3				
	4	Orange, moist, silty fine sand	SM	1.7 ppm	
	5				
	6				
	7				
	8				
	9				
	10	Dark orange-brownish sandy silt with white nodules, slightly moist to dry	ML	1.14 ppm	
	11				
	12				
	13				
	14	Yellowish-red, very fine silty sand with 0.2 cm white nodules to silty clay, 5YR 5/6	SM	0.79 ppm	
	15				
	16				
	17	Same as above with 10% white clasts/nodules	SM	1.06 ppm	
	18				
	19	Lt. reddish-brown fine silty sand, 5% white silt/clay balls, slightly moist, 5YR 6/4	SM/ML	1.32 ppm	

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW05

PROJECT #	DISTRICT	INSPECTOR	SHEET	OF	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	3	OF	4

ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
		Same as above.	SM/ML		
	21				
	22	Fewer cuttings of same moist reddish-brown sand	SM/ML	1.13 ppm at 23', 1.38 ppm at 24'	
	23				
	24				
	25	Same as above, < 2% white silt balls	SM	1.08 ppm	
	26	Same as above w/ balls of brown silty clay	SM/CL		
	27	Large, dry, stiff clasts to 2" of red-brown clay	CL		
	28	Brownish-red sandy silty clay, 2.5YR 4/4	CL	1.10 ppm at 28'	
	29				
	30				
	31	Brownish-red silty sandy clay, in 2" or smaller angular clasts, non-plastic, 2.5YR 4/4	CL	1.16 ppm	
	32				
	33	Same as above but in <1 cm balls, slightly plastic, tough	CL	0.98 ppm	
	34				
	35	Angular clasts as above.	CL	1.09 ppm	
	36				
	37				
	38				
	39				

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-MW05

HTRW DRILLING LOG

SITE	LOCATION	HOLE NUMBER
DP-63	Holloman AFB, NM	DP63-MW05

PROJECT #	DISTRICT	INSPECTOR	SHEET	SHEETS
5155.0037.0009.H2000	OMAHA	Patricia Weston	4 OF	4

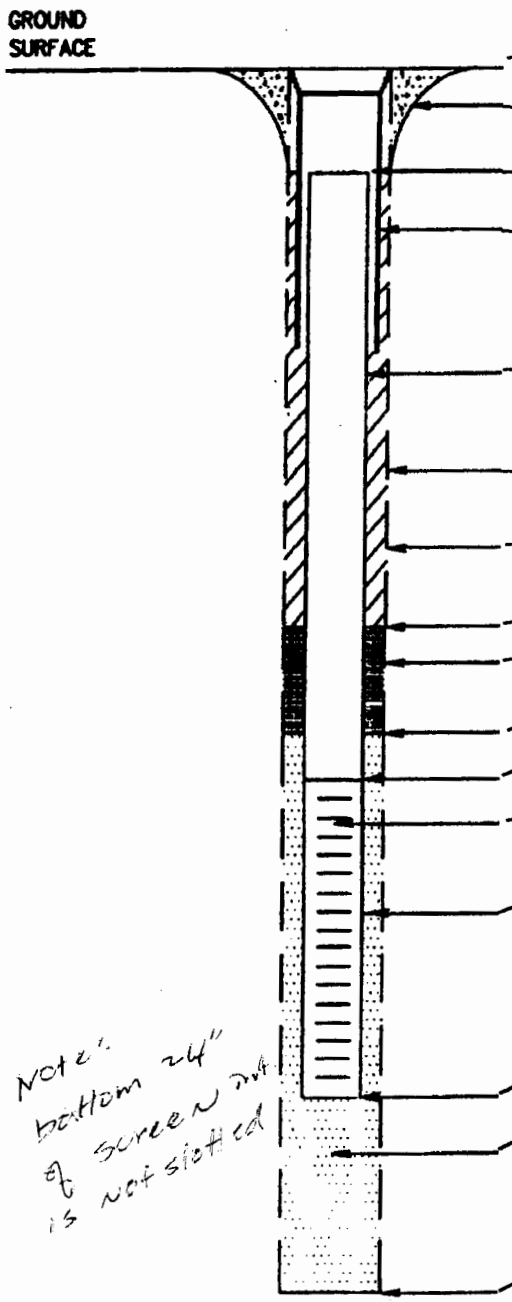
ELEV. (a)	DEPTH (ft.) (b)	DESCRIPTION OF MATERIALS (c)	USCS CLASS. (d)	FIELD SCREEN RESULTS (e)	REMARKS (f)
	41	Angular clasts as above.	CL		
	42	Large angular, white clasts of slightly moist, reddish brown sandy silty clay	CL	0.88 ppm	
	43	Same as above to 1.5"	CL	1.05 ppm	
	44–46	4" angular clasts of moist, dark reddish brown, non to slightly plastic brown slightly sandy clay, gypsum xtls. to 0.5", tough, 5YR 4/4	CL	1.16 ppm at 44'	
	47	Balls and small (1") angular clasts of reddish brown silty sandy clay, 5YR 4/4	CL		
	48–49	Moist, fine sandy silty clay, non to slightly plastic, 2.5YR 4/3, reddish brown	CL		
	50–54	Reddish brown, moist, slightly plastic, silty sandy clay, 1 cm average diameter balls of cuttings	CL	PID = 0.25 ppm FID = 0.15 in drum of cuttings	
	55–58	Same as above.	CL	PID = 0.08 ppm FID = 0.01 in auger @ 55'. PID = 1.60 ppm FID = 0.05 ppm	
	59	TOTAL DEPTH = 58 FT.			

PROJECT	HOLE NO.
Holloman AFB DP-63 RI	DP63-MW05

WELL ID DP63-MW 01

MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT	DP-63 RI, Holloman AFB, New Mexico	DRILLING COMPANY	THF Drilling, Inc.
PROJECT NO.	5155.0037.0009.H2000	DRILLER	George Gutman/Paul Schumann
INSTALLATION DATE(S)	8/21/02 - 8/22/02	DRILLING METHOD/ EQUIPMENT	Hollow-stem auger
FIELD GEOLOGIST	Patricia Weston	DEVELOPMENT METHOD	Bailing



Note: bottom 24" of screen not is not slotted

GROUND SURFACE ELEVATION: N/A

ELEVATION OF TOP OF SURFACE CASING: ~~4~~ 3' above g.s.

TYPE OF SURFACE SEAL: Concrete

ELEVATION OF TOP OF RISER: 2.5' above g.s.

I.D. OF SURFACE CASING (IN.): 10"

TYPE OF SURFACE CASING: ☐ Flush-mount steel box ☒ Steel riser

I.D. OF RISER PIPE (IN.) 2"

TYPE OF RISER PIPE: Schedule-40 PVC

BOREHOLE DIAMETER (IN.): 8"

TYPE OF BACKFILL: Bentonite-cement grout

DEPTH TOP OF SEAL (FT.): 39.5'

TYPE OF SEAL: Bentonite pellets

DEPTH TOP OF SAND PACK (FT.): 44'

DEPTH TOP OF SCREEN (FT.): 47.1' ~~47.1~~ PW CLB

TYPE OF SCREEN: Schedule-40 PVC

SLOT SIZE X LENGTH (FT.): 0.01 inch, 10.0 ft

TYPE OF SAND PACK: 10-20 silica sand

DEPTH BOTTOM OF SCREEN (FT.): ~~47.1'~~ 57.1 ~~57.1~~ PW

DEPTH BOTTOM OF SAND PACK (FT.): 57.1

TYPE OF BACKFILL BELOW OBSERVATION WELL: None

DEPTH OF BOREHOLE (FT.): 57.6 measured

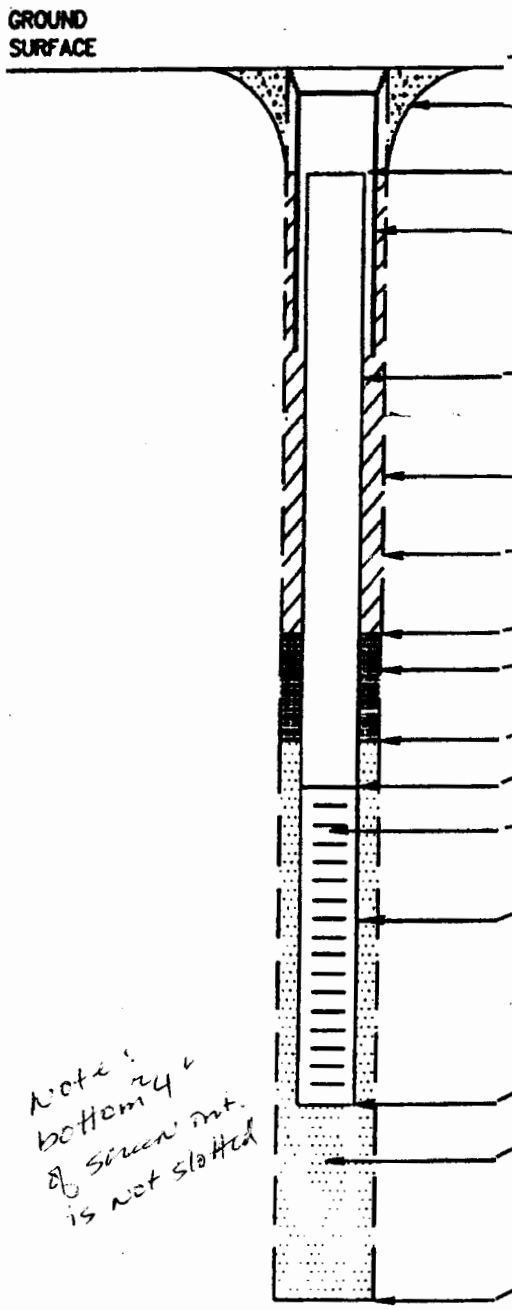
QC: Carol Bienvenu 9/16/02

WELL ID DP63-MW 02

MONITORING WELL CONSTRUCTION DIAGRAM

(co-located w/DP15)

PROJECT: DP-63 RI, Holloman AFB, New Mexico	DRILLING COMPANY: THF Drilling, Inc.
PROJECT NO.: 5155.0037.0009.H2000	DRILLER: George Guizman/Paul Schuman
INSTALLATION DATE(S): 8/20/02 - 8/21/02	DRILLING METHOD/ EQUIPMENT: Hollow-stem auger
FIELD GEOLOGIST: Patricia Weston	DEVELOPMENT METHOD: Bailing



GROUND SURFACE ELEVATION: N/A

ELEVATION OF TOP OF SURFACE CASING: 3' above g.s.

TYPE OF SURFACE SEAL: Concrete

ELEVATION OF TOP OF RISER: 2.5' above g.s.

I.D. OF SURFACE CASING (IN.): ~~2'~~ 10"

TYPE OF SURFACE CASING: ☐ Flush-mount steel box ☒ Steel riser

I.D. OF RISER PIPE (IN.): 2"

TYPE OF RISER PIPE: Schedule-40 PVC

BOREHOLE DIAMETER (IN.): 8"

TYPE OF BACKFILL: Bentonite-cement grout

DEPTH TOP OF SEAL (FT.): 40'

TYPE OF SEAL: Bentonite pellets

DEPTH TOP OF SAND PACK (FT.): 44'

DEPTH TOP OF SCREEN (FT.): 48.18'

TYPE OF SCREEN: Schedule-40 PVC

SLOT SIZE X LENGTH (FT.): 0.01 inch, ft

TYPE OF SAND PACK: 10-20 silica sand

DEPTH BOTTOM OF SCREEN (FT.): ~~58.2~~ 58.18'

DEPTH BOTTOM OF SAND PACK (FT.): 58.5'

TYPE OF BACKFILL BELOW OBSERVATION WELL: Sand 10/20 silica

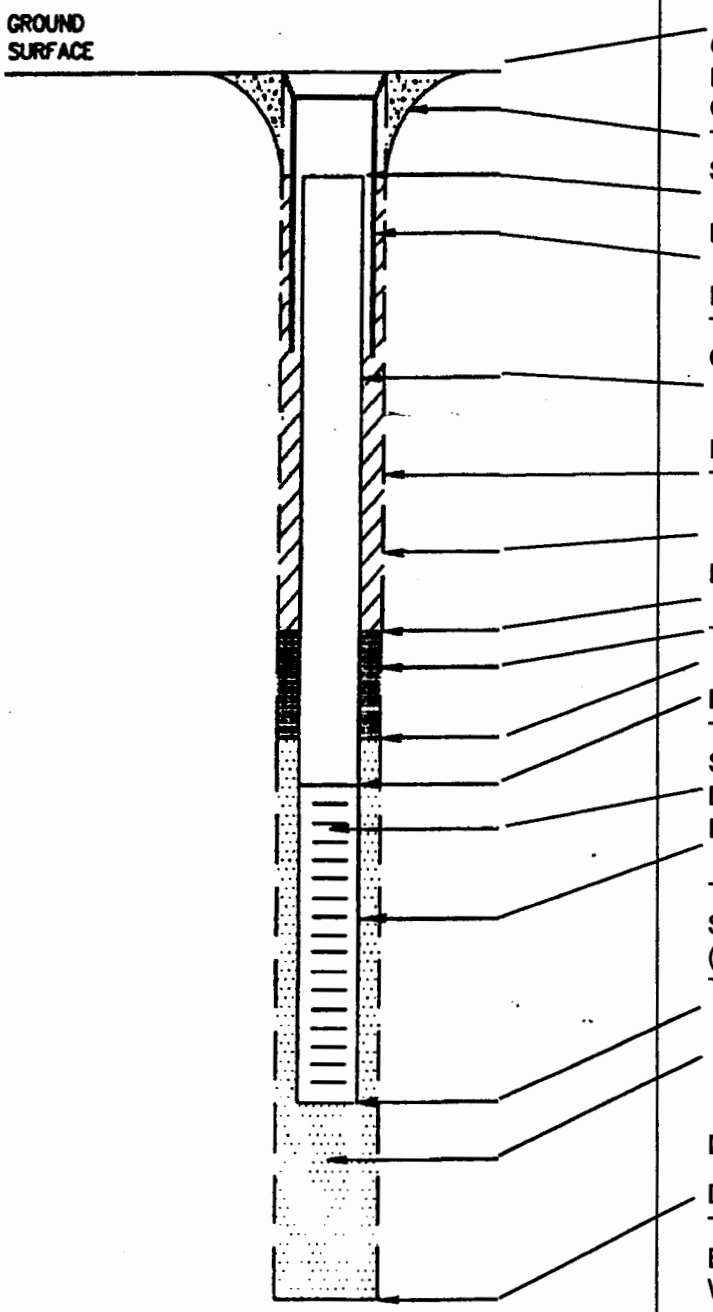
DEPTH OF BOREHOLE (FT.): 58.5'

QC: Carol Bienulis 9/16/02

WELL ID DP63-MW 03

MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT	DP-63 RI, Holloman AFB, New Mexico	DRILLING COMPANY	THF Drilling, Inc.
PROJECT NO.	5155.0037.0009.H2000	DRILLER	George Guilman / Paul Schuman
INSTALLATION DATE(S)	8/20/02 - 8/22/02	DRILLING METHOD/ EQUIPMENT	Hollow-stem auger
FIELD GEOLOGIST	Patricia Weston	DEVELOPMENT METHOD	Bailing



GROUND SURFACE ELEVATION: N/A

ELEVATION OF TOP OF SURFACE CASING: 3' above g.s.

TYPE OF SURFACE SEAL: Concrete

ELEVATION OF TOP OF RISER: 2.5' above ground

I.D. OF SURFACE CASING (IN.): 10"

TYPE OF SURFACE CASING: ☐ Flush-mount steel box ☒ Steel riser

I.D. OF RISER PIPE (IN.) 2"

TYPE OF RISER PIPE: Schedule-40 PVC

BOREHOLE DIAMETER (IN.): 8"

TYPE OF BACKFILL: Bentonite-cement grout

DEPTH TOP OF SEAL (FT.): 41'

TYPE OF SEAL: Bentonite pellets

DEPTH TOP OF SAND PACK (FT.): 44'

DEPTH TOP OF SCREEN (FT.): 47.4'

TYPE OF SCREEN: Schedule-40 PVC

SLOT SIZE X LENGTH (FT.): 0.01 inch, 10.0 ft

TYPE OF SAND PACK: 10-20 silica sand

DEPTH BOTTOM OF SCREEN (FT.): 57.4

DEPTH BOTTOM OF SAND PACK (FT.): 57.7

TYPE OF BACKFILL BELOW OBSERVATION WELL: ~~N/A~~ None CLB

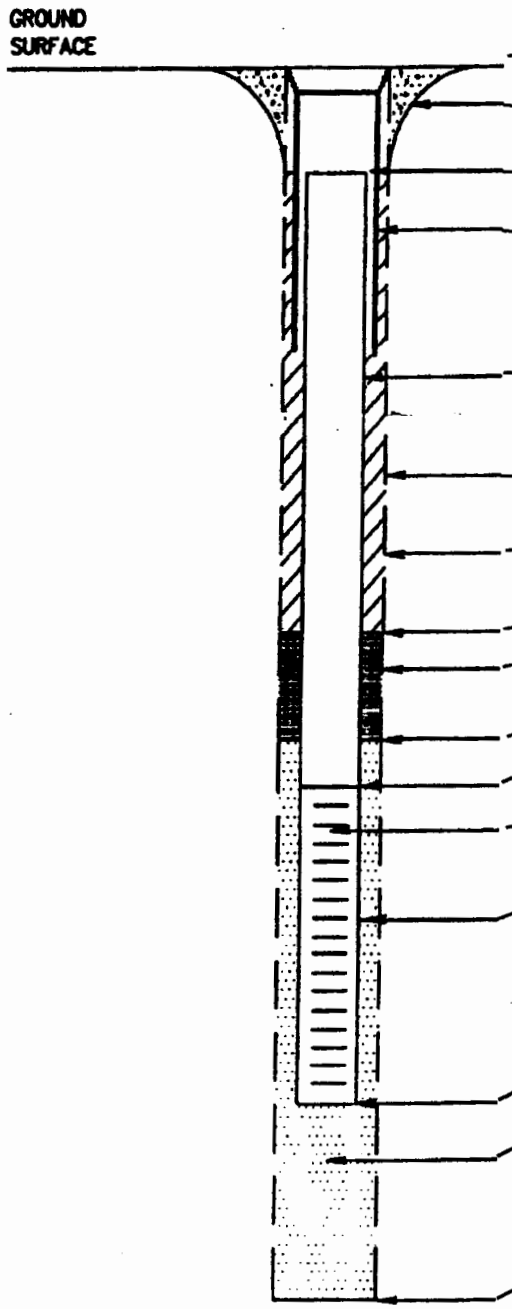
DEPTH OF BOREHOLE (FT.): 57.7

QC: Carol Brewley 9/16/02

WELL ID DP63-MW 04

MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT: DP-63 RI, Holloman AFB, New Mexico	DRILLING COMPANY: THF Drilling, Inc.
PROJECT NO.: 5155.0037.0009.H2000	DRILLER: George Guzman/Paul Schwa
INSTALLATION DATE(S): 8/19/02-8/21/02	DRILLING METHOD/ EQUIPMENT: Hollow-stem auger
FIELD GEOLOGIST: Patricia Weston	DEVELOPMENT METHOD: Bailing



GROUND SURFACE ELEVATION: N/A

ELEVATION OF TOP OF SURFACE CASING: g.s.

TYPE OF SURFACE SEAL: Concrete

ELEVATION OF TOP OF RISER: 3" bgs

I.D. OF SURFACE CASING (IN.): 12"

TYPE OF SURFACE CASING: ☒ Flush-mount steel box ☐ Steel riser

I.D. OF RISER PIPE (IN.) 2"

TYPE OF RISER PIPE: Schedule-40 PVC

BOREHOLE DIAMETER (IN.): 8"

TYPE OF BACKFILL: Bentonite-cement grout

DEPTH TOP OF SEAL (FT.): 38.5'

TYPE OF SEAL: Bentonite pellets

DEPTH TOP OF SAND PACK (FT.): 42' ~~41.5'~~ pm

DEPTH TOP OF SCREEN (FT.): 44.90'

TYPE OF SCREEN: Schedule-40 PVC

SLOT SIZE X LENGTH (FT.): 0.01 inch, 10.0 ft

TYPE OF SAND PACK: 10-20 silica sand

DEPTH BOTTOM OF SCREEN (FT.): 54.90'

DEPTH BOTTOM OF SAND PACK (FT.): 55'

TYPE OF BACKFILL BELOW OBSERVATION WELL: N/A

DEPTH OF BOREHOLE (FT.): 55'

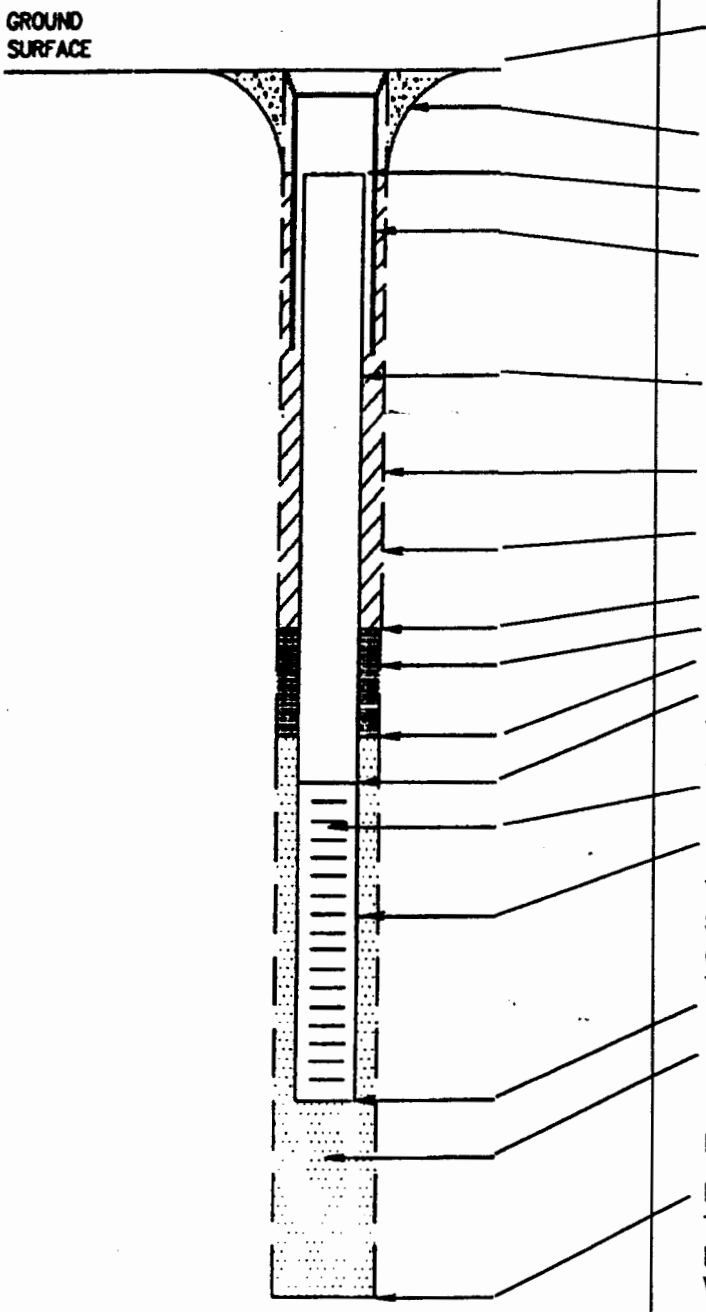
QC: Carol Bienvilis 9/16/02

WELL ID DP63-MW05

MONITORING WELL CONSTRUCTION DIAGRAM

(Fence downgradient)

PROJECT	DP-63 RI, Holloman AFB, New Mexico	DRILLING COMPANY	THF Drilling, Inc.
PROJECT NO.	5155.0037.0009.H2000	DRILLER	George Gutierrez/Paul Schroeder
INSTALLATION DATE(S)	8/19/02 - 8/21/02	DRILLING METHOD/ EQUIPMENT	Hollow-stem auger
FIELD GEOLOGIST	Patricia Weston	DEVELOPMENT METHOD	Bailing



GROUND SURFACE ELEVATION: N/A

ELEVATION OF TOP OF SURFACE CASING: g.s.

TYPE OF SURFACE SEAL: Concrete

ELEVATION OF TOP OF RISER: 3" bgs

I.D. OF SURFACE CASING (IN.): 12"

TYPE OF SURFACE CASING: ☒ Flush-mount steel box ☐ Steel riser

I.D. OF RISER PIPE (IN.) 2"

TYPE OF RISER PIPE: Schedule-40 PVC

BOREHOLE DIAMETER (IN.): 8"

TYPE OF BACKFILL: Bentonite-cement grout

DEPTH TOP OF SEAL (FT.): 36.5'

TYPE OF SEAL: Bentonite pellets

DEPTH TOP OF SAND PACK (FT.): 40.9'

DEPTH TOP OF SCREEN (FT.): 45.05'

TYPE OF SCREEN: Schedule-40 PVC

SLOT SIZE X LENGTH (FT.): 0.01 inch, 10.0 ft

TYPE OF SAND PACK: 10-20 silica sand

DEPTH BOTTOM OF SCREEN (FT.): 55.05'

DEPTH BOTTOM OF SAND PACK (FT.): 55'

TYPE OF BACKFILL BELOW OBSERVATION WELL: N/A

DEPTH OF BOREHOLE (FT.): 55.2

QC: Carol Brennley 9/16/02

MONITORING WELL PURGING RECORD

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Well ID: DP63-MW01
Date: 9/10/2002

Start Time: 0813
Finish Time: 0850

Project: DP-63 RI
Project No: 5155.0037.0009.H2000

Field Personnel: Rafe Jones

Company: R&R Environmental

☒ Well Development
☐ Presample Purging
(check one)

Type of Purging Equipment
☒ Bailer
☐ Pump
Description:

Meter	Make	Model	Serial Number
pH/Temperature	Oakton	Con 300	64351
Conductivity	Thermo Orion	135A	55148/1461198/0147
Turbidity	LaMotte	2020	1269-2699
TDS	Myron L Company	AR1	T3 01247

Depth to Water (ft)	54.02		
Well Total Depth (ft)	60.4		
Height of Water Column (ft) (h)	6.38	(QC check)	6.38
Casing Inner Diameter (in)	2		
Casing Inner Diameter (ft) (d)	0.166666667	(QC check)	0.166666667
Saturated Casing Volume (gal) (V)	1.041141263	(QC check)	1.041141263
Total Purge volume - 3 Well Volumes (gal)	3.123423789		

$$Volume = \pi \times (d/2)^2 \times h \times 7.48 \text{ gal/cu.ft.}$$

$\pi = 3.14$

7.48 = conversion factor (cu.ft. to gallons)

Time	Volume Purged (gal)	pH	Conductivity (mmhos/cm)[1]	Turbidity (NTU)	TDS (ppm)	Temperature (degrees C)	Comments
8:13	1	6.72	18.26	OR	19.51 PPT	19.4	
8:20	2	6.74	19.81	OR	OR	19.2	
8:28	3	6.72	21.6	OR	OR	18.9	
8:34	4	6.72	22.2	OR	OR	19.2	
8:41	5	6.73	23.5	OR	OR	19.3	
8:50	6	6.76	23.9	OR	OR	19.4	
							Sampling conducted after
							development and well
							recovery on 9/10/02.
							CLB

QC Reviewer: [signature]

Date: 9-16-2002

MONITORING WELL PURGING RECORD

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Well ID: DP63-MW02
Date: 9/10/2002

Start Time: 14:43
Finish Time: 15.16

Project: DP-63 RI
Project No: 5155.0037.0009.H2000

Field Personnel: Rafe Jones

Company: R&R Environmental

☒ Well Development
☐ Presample Purging
(check one)

Type of Purging Equipment
☒ Bailer
☐ Pump
Description:

Meter	Make	Model	Serial Number
pH/Temperature	Oakton	Con 300	64351
Conductivity	Thermo Orion	135A	55148/1461198/0147
Turbidity	LaMotte	2020	1269-2699
TDS	Myron L Company	AR1	T3 01247

Depth to Water (ft)	51.61		
Well Total Depth (ft)	60.62		
Height of Water Column (ft) (h)	9.01	(QC check)	9.01
Casing Inner Diameter (in)	2		
Casing Inner Diameter (ft) (d)	0.166666667	(QC check)	0.166666667
Saturated Casing Volume (gal) (V)	1.470326454	(QC check)	1.470326454
Total Purge volume - 3 Well Volumes (gal)	4.410979363		

$$Volume = \pi \times (d/2)^2 \times h \times 7.48\ gal/cu.ft.$$

$\pi = 3.14$

7.48 = conversion factor (cu.ft. to gallons)

Time	Volume Purged (gal)	pH	Conductivity (mmhos/cm)[1]	Turbidity (NTU)	TDS (ppm)	Temperature (degrees C)	Comments
14:43	1.5	6.71	14.27	OR	13.21PPT	21.3	
14:53	3	6.72	14.99	OR	13.9	23.3	
15:00	4.5	6.72	15.57	OR	14.82	20.8	
15:08	6	6.74	15.96	OR	14.4	20.7	
15:16	7.5	6.73	16.12	OR	15.79	20.6	Well bailed dry.
							Sampling conducted after
							development and well
							recovery on 9/10/02.
							CLB

QC Reviewer: CL Brainlin

Date: 9-16-02

MONITORING WELL PURGING RECORD

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Well ID: DP63-MW03
Date: 9/10/2002

Start Time 12:59
Finish Time: 14:16

Project: DP-63 RI
Project No: 5155.0037.0009.H2000

Field Personnel: Rafe Jones

Company: R&R Environmental

☒ **Well Development**
☐ **Presample Purging**
(check one)

Type of Purging Equipment
☒ **Bailer**
☐ **Pump**
Description:

Meter	Make	Model	Serial Number
pH/Temperature	Oakton	Con 300	64351
Conductivity	Thermo Orion	135A	55148/1461198/0147
Turbidity	LaMotte	2020	1269-2699
TDS	Myron L Company	AR1	T3 01247

Depth to Water (ft)	50.05		
Well Total Depth (ft)	59.44		
Height of Water Column (ft) (h)	9.39	*(QC check)*	*9.39*
Casing Inner Diameter (in)	2		
Casing Inner Diameter (ft) (d)	0.166666667	*(QC check)*	*0.166666667*
Saturated Casing Volume (gal) (V)	1.532338003	*(QC check)*	*1.532338003*
Total Purge volume - 3 Well Volumes (gal)	4.597014009		

$$Volume = \pi \times (d/2)^2 \times h \times 7.48\ gal/cu.ft.$$

$\pi = 3.14$

7.48 = conversion factor (cu.ft. to gallons)

Time	Volume Purged (gal)	pH	Conductivity (mmhos/cm)[1]	Turbidity (NTU)	TDS (ppm)	Temperature (degrees C)	Comments
12:59	1.5	6.82	19.39	OR	OR	20.9	
13:06	3	8.78	21.5	OR	OR	21.3	
13:17	4.5	6.77	20.6	OR	OR	20.4	
13:28	6	6.81	23.2	OR	OR	20.5	
13:36	7.5	6.81	22.6	OR	OR	20.8	
13:43	9	6.88	20.4	OR	OR	20.6	
13:49	10.5	6.88	24.5	OR	OR	20.7	
14:08	12	6.88	25	OR	OR	21.4	
14:16	13.5	6.84	25.4	OR	OR	21.2	Sampling conducted after well development and well recovery on 9/18/02. CLB

QC Reviewer: CL Bierwalis **Date:** 9-16-02

DP-63 Well Purge Form.xls 9/12/2002 clb

MONITORING WELL PURGING RECORD

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Well ID: DP63-MW04
Date: 9/10/2002

Start Time: 09:53
Finish Time: 10:18

Project: DP-63 RI
Project No: 5155.0037.0009.H2000

Field Personnel: Rafe Jones

Company: R&R Environmental

☒ Well Development
☐ Presample Purging
(check one)

Type of Purging Equipment
☒ Bailer
☐ Pump
Description:

Meter	Make	Model	Serial Number
pH/Temperature	Oakton	Con 300	64351
Conductivity	Thermo Orion	135A	55148/1461198/0147
Turbidity	LaMotte	2020	1269-2699
TDS	Myron L Company	AR1	T3 01247

Depth to Water (ft)	45.79		
Well Total Depth (ft)	54.51		
Height of Water Column (ft) (h)	8.72	(QC check)	8.72
Casing Inner Diameter (in)	2		
Casing Inner Diameter (ft) (d)	0.166666667	(QC check)	0.166666667
Saturated Casing Volume (gal) (V)	1.423001851	(QC check)	1.423001851
Total Purge volume - 3 Well Volumes (gal)	4.269005554		

$$Volume = \pi \times (d/2)^2 \times h \times 7.48\ gal/cu.ft.$$

$\pi = 3.14$

7.48 = conversion factor (cu.ft. to gallons)

Time	Volume Purged (gal)	pH	Conductivity (mmhos/cm)[1]	Turbidity (NTU)	TDS (ppm)	Temperature (degrees C)	Comments
9:53	1.5	6.75	24.9	OR	OR	20.6	
10:00	3	6.73	25.7	OR	OR	20.4	
10:06	4.5	6.74	26.3	OR	OR	20.7	
10:12	6	6.76	26.5	OR	OR	21.3	
10:18	7.5	6.77	26.6	OR	OR	20.7	
							Sampling conducted after
							development and well
							recovery on 9/10/02.
							CLB

QC Reviewer: CL Bienvenu

Date: 9-16-02

MONITORING WELL PURGING RECORD

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Well ID: DP63-MW05
Date: 9/10/2002

Start Time 10:33
Finish Time: 10:52

Project: DP-63 RI
Project No: 5155.0037.0009.H2000

Field Personnel: Rafe Jones

Company: R&R Environmental

☒ **Well Development**
☐ **Presample Purging**
(check one)

Type of Purging Equipment
☒ **Bailer**
☐ **Pump**
Description:

Meter	Make	Model	Serial Number
pH/Temperature	Oakton	Con 300	64351
Conductivity	Thermo Orion	135A	55148/1461198/0147
Turbidity	LaMotte	2020	1269-2699
TDS	Myron L Company	AR1	T3 01247

Depth to Water (ft)	46.75		
Well Total Depth (ft)	55.15		
Height of Water Column (ft) (h)	8.4	*(QC check)*	*8.4*
Casing Inner Diameter (in)	2		
Casing Inner Diameter (ft) (d)	0.166666667	*(QC check)*	*0.166666667*
Saturated Casing Volume (gal) (V)	1.3707816	*(QC check)*	*1.3707816*
Total Purge volume - 3 Well Volumes (gal)	4.1123448		

$$Volume = \pi \times (d/2)^2 \times h \times 7.48 \text{ gal/cu.ft.}$$

$\pi = 3.14$

7.48 = conversion factor (cu.ft. to gallons)

Time	Volume Purged (gal)	pH	Conductivity (mmhos/cm)[1]	Turbidity (NTU)	TDS (ppm)	Temperature (degrees C)	Comments
10:33	1.5	7.81	25.7	OR	OR	21.9	
10:39	3	7.03	25.8	OR	OR	21.4	
10:46	4.5	7.01	26.1	OR	OR	21.3	
10:52	6	7.07	27.5	OR	OR	21.2	
							Samplingconducted
							after well development
							and well recovery on
							9/10/02.
							CLB

QC Reviewer: C.L. Bienvenu **Date:** 9-16-02

APPENDIX C

ECOLOGICAL RISK ASSESSMENT

SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT
DP-63 AT HOLLOMAN AIR FORCE BASE

Prepared for:

U. S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

Under Contract No. DACW45-94-D-0003
Delivery Order 37, Work Authorization Directive 9

Prepared by:

Foster Wheeler Environmental Corporation
6605 Uptown Boulevard N.E. #220
Albuquerque, New Mexico 87110

November 2002

APPENDIX C

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1	Ecological Checklist

LIST OF ACRONYMS

AFB	Air Force Base
asl	above sea level
Ba	biotransfer factor
Ba_{DM}	biotransfer factor applicable for the deer mouse (days per kilogram fresh weight tissue)
BCF	bioconcentration factor
$BCF_{F\text{-}DM}$	deer mouse food bioconcentration factor
$BCF_{INV\text{-}DM}$	terrestrial invertebrate-to-deer mouse bioconcentration factor
BCF_r	soil-to-plant bioconcentration factor
$BCF_{S\text{-}DM}$	soil-to-deer mouse bioconcentration factor
$BCF_{S\text{-}MD}$	soil-to-mourning dove bioconcentration factor
$BCF_{TP\text{-}DM}$	terrestrial plant-to-deer mouse bioconcentration factor
$BCF_{TP\text{-}MD}$	terrestrial plant-to-mourning dove bioconcentration factor
bgs	below ground surface
BW	body weight
C_{DM}	COPEC concentration in the deer mouse
C_F	COPEC concentration in the food item
C_{HB}	COPEC concentration in herbivorous birds
C_{INV}	COPEC concentration in terrestrial invertebrates
C_{MD}	COPEC concentration in the mourning dove
C_{OM}	COPEC concentration in omnivorous mammals
C_S	COPEC concentration in soil
C_{TP}	COPEC concentration in terrestrial plants
CESQ	cumulative ecological screening quotient
COPEC	chemical of potential ecological concern

DD	daily dose of COPEC ingested
D_{CB}	daily dose of COPEC ingested by carnivorous terrestrial birds
D_{HB}	daily dose of COPEC ingested by herbivorous bird
D_{OM}	daily dose of COPEC ingested by omnivorous terrestrial mammals
EEL	estimated exposure level
EOD	explosive ordnance disposal
EPA	United States Environmental Protection Agency
ESQ	ecological screening quotient
F_F	fraction of diet consisting of food item
F_{HB}	fraction of diet comprised of herbivorous birds
F_{INV}	fraction of diet comprised of terrestrial invertebrates
F_{OM}	fraction of diet comprised of omnivorous mammals
F_{TP}	fraction of diet comprised of terrestrial plants
F_{INV}	fraction of diet comprised of terrestrial invertebrates
ft	feet
IR	ingestion rate
IR_{CB}	food ingestion rate of carnivorous terrestrial birds
IR_F	ingestion rate for food items
IR_{HB}	food ingestion rate of herbivorous bird
IR_{OM}	food ingestion rate of omnivorous terrestrial mammals
$IR_{S\text{-}CB}$	soil ingestion rate of carnivorous terrestrial birds
$IR_{S\text{-}HB}$	soil ingestion rate of herbivorous bird
$IR_{S\text{-}OM}$	soil ingestion rate of omnivorous terrestrial mammals
kg	kilogram
kg FW/day	kilogram fresh wet per day

kg WW/kg BW day	kilograms of wet weight per kilogram of body weight per day
kg DW/kg BW-day	kilograms of dry weight per kilogram of body weight per day
K_{OW}	octanol-water partition coefficient
LC_{50}	lowest concentration that is lethal to 50 percent of the test population
LD_{50}	lowest dose that is lethal to 50 percent of the test population
LOAEL	lowest observed-adverse-effect-level
log Ba_{DM}	logarithm of the COPEC-specific biotransfer factor applicable for the deer mouse
log K_{ow}	logarithm of the octanol-water partition coefficient
MDL	method detection limit
mg COPEC/kg WW	milligram COPEC per kilograms wet weight
mg/kg	milligrams per kilogram
mg/kg DW	milligrams per kilogram of dry weight
mg/kg WW	milligrams per kilogram of wet weight
mg COPEC/kg-BW-day	milligrams of COPEC per kilograms of body weight per day
NMED	New Mexico Environment Department
NOAEL	no-observed-adverse-effect level
PA/SI	Preliminary Assessment/Site Inspection
P_F	proportion of the food item that is contaminated
P_{HB}	ratio of contaminated to total herbivorous birds in diet
P_{INV}	ratio of contaminated to total terrestrial invertebrates in diet
P_{OM}	ratio of contaminated to total omnivorous mammals in diet
P_r	plant concentration due to root uptake

P_S	ratio of contaminated to total ingested soil
P_{TP}	ratio of contaminated to total terrestrial plant in diet
PCOPEC	preliminary chemical of potential ecological concern
QA/QC	quality assurance/quality control
RI	Remedial Investigation
SLERA	screening-level ecological risk assessment
SVOC	semi-volatile organic chemicals
TERC	Total Environmental Restoration Contract
TPH	total petroleum hydrocarbon
TRV	toxicity reference value
USACE	United States Army Corps of Engineers
USAF	United States Air Force
VOCs	volatile organic chemicals

C.1 INTRODUCTION

This appendix presents the screening-level ecological risk assessment (SLERA) prepared for disposal pit 63 (DP-63) at Holloman Air Force Base (AFB), New Mexico.

This SLERA is a part of a remedial investigation (RI) for DP-63. The RI of DP-63 is being conducted in response to the recommendations of the Preliminary Assessment/Site Inspection (PA/SI) that was conducted at DP-63 in March and April 2000, and additional geophysical work that was conducted in September 2000 (Foster Wheeler Environmental, 2001). During the PA/SI, geophysical surveys were performed to evaluate the location and extent of abandoned ammunition disposal pits in the area and determined whether past releases at the site had impacted soil and groundwater. The RI will further define nature and extent of soil and groundwater contamination at the site (Foster Wheeler Environmental, 2001). The site is located in the northern portion of the Ammunition Storage Facility on the eastern side of the Base (Figure 1-1). Originally, the site was located immediately north and outside of the facility, but when the yard was expanded in the 1960s, the site was enclosed within the compound. Two separate disposal pit areas were identified by Base Explosive Ordnance Disposal (EOD) personnel prior to the PA/SI and an additional site was discovered during reconnaissance activities in April 2000. These sites include:

- East Area—Located on the east side of DP-63, covers an area of approximately 15,000 square feet (ft) and may contain up to several separate disposal pits that extend to depths ranging from 6 to 8 ft below ground surface (bgs)

- West Area—Located on the west side of DP-63, is a small disposal feature that covers an area up to 100 square ft and extends to a depth of 6 ft bgs

- North Area—Located north of the Ammunition Storage Facility outside of the fence and was previously noted by Base personnel as an area of potential disposal

During past operations, ordnance was rendered inert by placing the munitions into the pits with diesel fuel and wood pallets and igniting the contents. Fuel may have seeped into the soil directly below the disposal areas. The types of ordnance that were treated include munitions ranging from 20 caliber to 50 caliber small arms rounds and grenades. DP-63 was previously referred to as the "bomb dump" by Base EOD personnel. Base environmental personnel performed a visual inspection of the site in summer 1997 and discovered scrap metal fragments

from disposed munitions were exposed on the ground surface throughout the area as a result of wind erosion.

C.2 SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT

The objective of this SLERA is to evaluate the potential ecological risks from chemical contaminants found at DP-63 at Holloman AFB. This information will be used to develop a basis for risk management decisions for the potential remediation of DP-63. The procedures used to conduct this SLERA are consistent with those presented in *Guidance for Assessing Ecological Risks Posed by Chemicals: Screening-Level Ecological Risk Assessment* (New Mexico Environment Department (NMED) 2000a), *Risk Assessment Handbook Volume II: Environmental Evaluation* (U.S. Army Corps of Engineers [USACE] 1996), *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (EPA 1996), and *Guidelines for Ecological Risk Assessment* (EPA 1998). Chemical contamination that is determined to potentially cause ecological risk may require additional evaluation in a more detailed quantitative assessment.

The SLERA has been organized to delineate the problem formulation, present the risk assessment methodology, and summarize the findings and conclusions of the risk assessment. The information is presented in the following sections:

- C.2.1—Problem Formulation
- C.2.2—Data Evaluation and Selection of COPECs
- C.2.3—Exposure and Effects Analysis
- C.2.4—Risk Characterization

C.2.1 Problem Formulation

This section establishes potential links between chemicals of potential ecological concern (COPECs) and responses in site-specific receptors by means of a conceptual site exposure model. This section describes the environmental setting at DP-63 and the scope of the SLERA, the site-specific exposure pathways, and the process used to identify the potential biological receptors (assessment endpoints).

C.2.1.1 Site Survey

A survey of the site was conducted on June 12, 2002, to gather site-specific information necessary for identifying relevant and complete contaminant–pathway–receptor relationships. The "Checklist for Ecological Assessment/Sampling" adopted from New Mexico Environment Department (NMED) that was used during the site survey is included as Attachment 1. Information gathered during the site survey is included in the discussion below.

Exposure Setting

Information pertaining to the exposure setting at DP-63 was obtained primarily during the June 2002 site survey and the Integrated Natural Resources Management Plan (HAFB 2001). In addition, the biologist at Holloman AFB, Dr. Hilde Reiser, was consulted for species identification and presence information as well as general habitat information.

The climate of the area is semiarid, characterized by highly variable precipitation patterns. The average annual precipitation ranges from 11.8 to 24.9 inches, most of which falls as midsummer thunderstorms. The natural land surface of DP-63 is relatively flat and slopes gently to the east and southeast. The elevation is 4,093 feet (ft) above sea level (asl).

DP-63 lies within a management unit of Holloman AFB that is designated as the Northern Shrublands (HAFB 2001). The native vegetation community in the Northern Shrubland Management Unit (MU) is characterized by open canopies of fourwing saltbush and well-developed understories dominated by alkali sacaton. Alkali sacaton is a robust, densely-tufted, long-lived, perennial bunchgrass. Honey mesquite becomes an increasingly important component of the fourwing saltbush community near DP-63. Mesquite, cacti, and yucca are occasionally present. There are also extensive grasslands interspersing the shrubland communities throughout the Northern Shrubland MU. Large trees do not exist in or near DP-63, except where planted around buildings.

This management unit's topography is characterized by broad deeply incised drainages that move alluviated material from upland reaches in the east to the dune area in the west (HAFB 2001). The topography of the upland reaches, where DP-63 is located, is linear, northeast trending, and subtly undulating. The surface water in this area is highly dependent on runoff from the Sacramento Mountains, a range extending 4,600 ft above and approximately 15 miles east of Holloman AFB (HAFB 2001).

Three cover types exist at DP-63, they include, unimproved/disturbed shrubland, semi-improved/mowed grassland, and improved areas (i.e., structural development). The unimproved/disturbed shrubland is the only cover type at DP-63 that is contains the same general vegetation as the Northern Shrubland MU. The other cover types do not fit the habitat description of the Northern Shrubland MU.

The unimproved/disturbed shrubland cover type is located outside the fenced area, or the North Area. The vegetation in this area is typical of the Northern Shrubland MU described above. Therefore, it has the same habitat as the Northern Shrubland MU. However, the vegetation in the North Area appeared to be somewhat stressed.

The semi-improved/mowed grassland cover type is within the fenced area of DP-63 and is surrounded by the main buildings of the Ammunition Storage Facility. The East and West Areas are within this cover type. The vegetation present in this cover type consists of nonnative grasses that are mowed. No other vegetation was observed in this area.

The improved areas of DP-63 consist of buildings and roadways used for the operation of the Ammunition Storage Facility. This cover type surrounds the semi-improved/mowed grassland cover type.

Potential Ecological Receptors

Table C-1 presents a list of plants and animals that typically occur in habitats at. Some of these are discussed below.

Dominant shrubs and forbs of the Northern Shrubland MU community include fourwing saltbush (*Atriplex canescens*), honey mesquite (*Prosopsis glandulosa*), claret cup cactus (*Echniocereus triglochidiatus*), and narrow-leaved yucca (*Yucca glauca*). Grasses associated in this area may include species of gyp dropseed (*Sporobolus nealleyi*), alkali sacaton (*Sporobolus airoides*), and hairy coldenia (*Tiquilia hispidissima*) (HAFB 2001).

A wide variety of animals inhabit the Northern Shrubland MU community. Common reptiles include New Mexico whiptail (*Cnemidophorus neomexicanus*), Texas horned lizard (*Phrynosoma cornutum*), coachwhip (*Masticophis flagellum*), and western rattlesnake (*Crotalus viridis*) (HAFB 2001).

Characteristic birds of the Northern Shrubland MU community include Swainson's hawk (*Buteo swainsoni*), prairie falcon (*Falco mexicanus*), scaled quail (*Callipepla squamata*), western kingbird (*Tyrannus verticalis*), chipping sparrow (*Spizella passerina*), Brewer's sparrow (*S. breweri*), western meadowlark (*Sturnella neglecta*), killdeer (*Charadrium vociferus*), and loggerhead shrike (*Lanius ludovicianus*) (HAFB 2001).

Typical small mammals of this community include pallid bat (*Antrozous pallidus pallidus*), Mexican free-tailed bat (*Tadarida brasiliensis*), hoary bat (*Lasiurus cinereus*), black-tailed jackrabbit (*Lepus californicus*), spotted ground squirrel (*Spermophilus spilosoma*), plains pocket mouse (*Perognathus flavescens*), and deer mouse (*Peromyscus maniculatus*). Larger mammals include kit fox (*Vulpes macrotis neomexicanus*), coyote (*Canis latrans*), mule deer (*Odocoileus hemionus*), and mountain lion (*Felis concolor*) (HAFB 2001).

Twenty species associated with terrestrial habitats listed as either being federally endangered, threatened, or a candidate species or state endangered species are present at Holloman AFB. While these species are known to occur at Holloman AFB, based on habitat types, only two species have the potential to occur at DP-63. The base biologist was consulted to determine the presence of these species near DP-63. While none of these species are known to occur at DP-63, the base biologist identified two species that have potential habitat near the Ammunition Storage Facility. They are the Baird's sparrow (*Ammodramus bariddi*) and the plains pocket mouse. Table C-2 presents all of the species associated with terrestrial habitats listed as either being federally endangered, threatened, or a candidate species, or state endangered species that are present at Holloman AFB.

C.2.1.2 Habitat-Specific Food Web

A habitat-specific food web was developed from the list of species and information obtained during characterization of the exposure setting. The food web is presented as Figure C-1. The food web serves primarily to assist in the choice of assessment endpoints and selection of measurement receptors. Assessment endpoints are components or attributes of the ecosystem that are critical to the maintenance of the ecosystem structure and function. Measurement receptors are defined as the species used to represent a functional group of organisms at the site for evaluation of assessment endpoints. Representative species or measurement receptors from the food web were designated assessment endpoints.

The food web is organized by trophic level. Trophic level 1 consists of species that are primary producers, specifically green plants. Trophic level 2 consists of species that are primary consumers. These species are herbivores, which consume the plants from trophic level 1, and detritivores, which consume dead and decaying organic matter from sediment and soil. Trophic level 3 consists of omnivores and insectivores. Omnivores consume both plant and animal matter and insectivores only consume insects. Trophic level 4 consists of carnivores.

The species in the upper trophic levels of the food web (level 2 and above) are also organized by class-specific feeding guild. A class-specific feeding guild is a group of species within a particular trophic level that share similar feeding strategies and dietary habits. Examples of class-specific feeding guilds are herbivorous mammal, omnivorous mammal, carnivorous bird, and herbivorous bird. Plants and invertebrates are grouped into communities distinguished by the media that they inhabit. The communities evaluated in this SLERA include terrestrial plants and terrestrial invertebrates. The distinction between class-specific feeding guilds and communities is made because risk to each will be evaluated differently.

Arrows on the food web define the dietary relationships between class-specific guilds and communities. These relationships were determined by evaluating the dietary composition of the receptors for each class-specific guild or community. For example, terrestrial plants absorb nutrients and, potentially, contaminants from the soil; a deer mouse eats the plant; and a red-tailed hawk eats the deer mouse.

Complete Exposure Pathways

A complete exposure pathway between a receptor and an impacted environmental medium is necessary for potential ecological risk to occur.

The habitat at DP-63 is terrestrial. Therefore, the principal exposure media for ecological receptors is soil. Potential exposure routes to chemicals in soil may include one or more of the following:

- Ingestion
- Inhalation
- Dermal absorption

Ingestion of soil, plants, and prey are considered the primary routes of exposure for this SLERA. Inhalation and dermal absorption are possible routes of exposure, but for this SLERA, they are not quantified. This is because methods are not adequately developed to quantitatively evaluate these pathways. Exposure to groundwater will not be evaluated because a complete exposure pathway does not exist. Groundwater at DP-63 occurs at approximately 50 ft bgs. The ecologically relevant depth, as determined by NMED, is 5 ft bgs (NMED 2000a). The groundwater is well below this depth. Groundwater does not discharge to the ground surface where animals and plants could be exposed. In addition, the total dissolved solids in the groundwater at the site is greater than 10,000 mg/kg, therefore, the groundwater is nonpotable and not suitable for livestock watering (20.6.2 NMAC). The ingestion of drinking water is also expected to be insignificant due to the limited presence of surface water. Therefore, ingestion was the only route of exposure for upper trophic level species considered in this evaluation. For lower trophic level species (i.e., terrestrial invertebrates and plants) exposure was considered to be via direct absorption by the potential receptor through the dermis or cell wall. **Section C.2.1.5** presents the conceptual site model that describes this information further.

C.2.1.3 Identification and Selection of Assessment Endpoints

Assessment endpoints focus the SLERA on components of the ecosystem that may be impacted by contaminants at the site. The assessment endpoints identified for this SLERA include the following: decomposer/detritivore, habitat for wildlife, major food source for consumer species, seed disperser, and regulator of prey species. These endpoints were selected because they represent functions critical to the ecosystem at DP-63, they represent the common animal and plant species at DP-63, and there are susceptible to stress by contaminants.

C.2.1.4 Identification and Selection of Measurement Receptors

Measurement receptors were identified to evaluate the biological effects of contaminants on the assessment endpoints identified above. The North Area, as stated above, is the only area that consists of habitat similar to the Northern Shrubland MU. The North Area, or Northern Shrubland MU, habitat was used when selecting measurement receptors. This is because the East and West Areas cover types are not large enough to attract receptors other than those associated with the habitats of the surrounding Northern Shrubland MU. The receptors that would occur in the East and West Areas would likely be visitors from habitats from the North Area and Northern Shrubland MU. Measurement receptors were chosen based primarily on their function within the ecosystem. In addition, in the selection of measurement receptors

consideration is given to species sensitivity to the toxicity of contaminants, potential for high levels of exposure to contaminants, the availability of natural history information about the species, social and economic importance of the species, and its relevance to risk management decisions at the site. Below is a summary of the measurement receptors selected for analysis in this SLERA, followed by the rationale for their selection.

Community Receptors	
Assessment Endpoint	**Measurement Receptor**
Soil Communities	Terrestrial Plants
Soil Communities	Terrestrial Invertebrates
Measurement Receptors for Guilds	
Assessment Endpoint	**Measurement Receptor**
Herbivorous Mammal	Deer Mouse
Herbivorous Bird	Mourning Dove
Omnivorous Mammal	Least Shrew
Carnivorous Bird	Red-tailed Hawk

Identification of Measurement Receptors for Communities

The measurement receptors for communities evaluated in this SLERA include terrestrial invertebrates and terrestrial plants. They both represent the soil community assessment endpoint. Terrestrial invertebrates include nematodes, gastropods, oligochaetes, and arthropods. Terrestrial plants include vascular plants, grasses, forbs, and lichens. These communities provide an important food source for many higher trophic level species. In addition, terrestrial invertebrates, as decomposers and detritivores, play a critical role in nutrient cycling and terrestrial plants provide critical habitat for wildlife.

Identification of Measurement Receptors for Guilds

Measurement receptors for guilds were chosen for the following class-specific guilds: herbivorous mammal, herbivorous bird, omnivorous mammal, and carnivorous bird. No amphibian/reptilian class-specific guilds were chosen for inclusion in the quantitative portion of the SLERA because of a lack of toxicity and exposure information.

The deer mouse represents an herbivorous mammal for the evaluation of the assessment endpoints of major prey item and seed disperser. It is a prey item for owls and other raptors,

snakes, and small carnivorous mammals. The deer mouse is an important seed disperser and influences soil composition and aeration through its burrowing activities. The deer mouse is almost strictly nocturnal and feeds chiefly on seeds, fruits, bark, roots, and herbage. The deer mouse diet also includes a small percentage of terrestrial insects. Due to its burrowing and dietary habits, there is a high potential for direct and indirect exposure to on-site contamination.

The mourning dove represents an herbivorous bird for the evaluation of the assessment endpoints of seed disperser and major prey item. It plays an important role in seed dispersion for many grasses and forbs. Mourning doves are an important prey item for many upper trophic level species including falcons, hawks, foxes, and snakes. It feeds mostly on seeds but may incidentally ingest insignificant amounts of animal matter and green forage. The mourning dove has a high potential for exposure through ingestion of inorganic contaminants partially because it intentionally ingests grit to aid in digestion. Because the mourning dove is not a burrowing bird, it is assumed that the dove's exposure to soil would only occur on the surface. The mourning dove is not expected to be exposed to soil deeper than 0.5 feet.

The least shrew represents an omnivorous mammal for the evaluation of the assessment endpoints of prey regulator and is a prey item itself. It feeds on terrestrial invertebrates and, in turn, is prey to many carnivores, including owls, hawks, and snakes. The shrews feeds on snails, earthworms, insects, sow bugs, and other small invertebrates. Its diet of invertebrates and its burrowing behavior results in a high potential of direct and indirect exposure to on-site contaminants.

The red-tailed hawk represents a carnivorous bird for the evaluation of the assessment endpoint of prey regulator. It is a valuable component of terrestrial food webs through its regulation of populations of lower trophic level prey species. Its diet includes small mammals (such as mice, shrews, voles, rabbits, and squirrels), birds, lizards, snakes, and large insects. Red-tailed hawks have shown sensitivity to many chemicals that disrupt reproduction or egg development. The small mammal portion (i.e., deer mouse) of the hawk's diet is exposed to both surface and subsurface soil, while the small bird component (i.e., mourning dove) and soil ingestion only occur on the surface.

C.2.1.5 Conceptual Site Exposure Model

A conceptual model of the receptors expected to be present at the site was developed using information about the life history of those receptors to determine if complete pathways exist for

exposure of these receptors to contamination at the site. A complete exposure pathway is a pathway that has:

- A source and mechanism for contaminant release to the environment
- An environmental transport medium for the contaminant
- A point of receptor contact (i.e., exposure point) with the contaminated media or through the food web
- An exposure route to the receptor.

The conceptual site exposure model for ecological receptors at DP-63 is presented as Figure C-2. The primary source for releases at DP-63 are from spills or releases form disposal trenches. These leaks and spills could leach from the surface soil to the subsurface soil. This could result in releases via biotic uptake or vaporization. Receptors could be exposed via ingestion, direct contact, and inhalation. Exposure from direct contact and ingestion of chemicals that have leached from subsurface soil to groundwater and vaporization from groundwater is not a complete pathway at DP-63 because, as stated in the previous section, groundwater at DP-63 occurs below the ecologically relevant depth of 5 ft. All other pathways identified in Figure C-2 as complete are quantified in this report. The exposure model shows the relationship between the contaminants at the site and the potential ecological receptors. For example, contaminants at DP-63 are released to subsurface soil through spills and leaks. An earthworm is exposed to the contaminants in the soil (biotic uptake). A deer mouse is exposed to the contaminants by eating the earthworm (also biotic uptake). Finally, a red-tailed hawk is exposed to the contaminants by eating the deer mouse.

C.2.1.7 Contaminants and Exposure Setting

COPECs are those chemicals that can potentially induce an adverse response in one or more ecological receptors. According to site history, contamination could have taken place from diesel fuel placed on munitions to render them inert. This type of activity would result in potential TPH, organic compounds, explosive, and metal soil contamination. The chemical database used to support the SLERA was obtained from the RI field investigation conducted in 2002. Data that was collected during earlier events were collected at a depth that has not been determined to be ecologically relevant (greater than 5 ft bgs (NMED 2000a). During this sampling TPHs, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals were detected. This information served as a basis for the sampling

activities and sample analyses conducted for the RI. Refer to **Section C.2.2.1** for a brief discussion of the data collected during these efforts. Soil is the only media being evaluated in the SLERA. As stated above, surface water is not present at DP-63 and groundwater does not provide exposure to ecological receptors because it is not released to the surface. This is also reflected in the conceptual site exposure model.

C.2.2 Data Evaluation and Selection of COPECs

C.2.2.1 Data Evaluation

As discussed in **Section C.2.1**, NMED recommends a depth of 5 ft bgs as ecologically relevant (2000a). Based on this guidance, and in order to adequately characterize exposure to ecological receptors the soil data at each site are categorized into two groups, surface and subsurface. Surface soil is defined as soil collected at depths from 0 to 0.5 ft, and subsurface is defined as 0.5 to 5.0 ft. The history DP-63 indicates that all three areas contain the same contaminants. Therefore, data from all three areas were consolidated into one data set used in this analysis. Seventeen surface soil and fifteen subsurface soil samples were collected and analyzed for, VOCs, and SVOCs, total recoverable petroleum hydrocarbons, explosives, metals, and cyanide. Five, three, and five surface and subsurface soil samples were collected in the East, West, and North Areas, respectively. Figure 2-2 in the RI report presents sampling location.

Data Validation

The data used in this SLERA were validated in accordance with accepted EPA quality assurance/quality control (QA/QC) procedures. These procedures were performed for the data collected in 2002.

The only data validation flag ascribed to the data was the J-qualifier. A J-qualifier indicates that, although a positive identification of the chemical was made, there is some uncertainty in the quantification of the concentration present. Usually the concentration has been estimated and is below the contract-required detection limit. Data that were J-qualified were included in the SLERA. The uncertainties associated with their inclusion are discussed in Section C.2.5.

Sample results and associated laboratory blanks were evaluated for possible laboratory contamination. The purpose of this evaluation is to prevent the inclusion of non-site-related contaminants in the SLERA. The EPA considers acetone, 2-butanone, methylene chloride, toluene, and phthalate esters to be common laboratory contaminants (EPA 1994). If the laboratory blank contained detectable levels of these common laboratory contaminants, then the

sample results were considered positive only if the concentrations in the sample exceeded by 10 times the maximum amount detected in any blank. If the concentration of the common laboratory contaminant was less than 10 times the blank concentration, the chemical was considered not detected in the particular sample. If all samples contained levels of a common laboratory contaminant that were less than 10 times the level of contamination in the blank, the chemical was eliminated as a COPEC. No data were qualified with a "B", therefore all data are acceptable for purposes of this risk assessment.

Summary Statistics

Summary statistics were prepared for each chemical that was detected at least once. Summary statistics were prepared for surface and subsurface soil data. The summary statistics include: the minimum and maximum detected concentrations, location of the maximum detection, frequency of detection, range of detection limits, and the arithmetic mean. The location of the maximum detection presented in the summary statistics tables are sample identification numbers whose locations can be found in Table 7-1 of the main report. The arithmetic mean is an average of the detected concentration and one-half the detection limits for samples with chemical concentrations below the laboratory detection limit. Duplicate samples were not included in the summary statistics. Summary statistics for surface and subsurface soil at DP-63 are provided in Tables C-3 and C-4, respectively. Based on maximum detections, no one area appears to be more contaminated than the others. For example, each area had elevated lead concentrations.

C.2.2.2 Selection of COPECs

This section presents the process, as described in NMED 2000a, used to identify COPECs and the likely fate and transport mechanisms at DP-63. All chemicals positively identified to be above the method detection limit (MDL) in site soil samples were considered preliminary COPECs (PCOPEC). Because not all chemicals found at a site will have adverse effects on ecological receptors, the list of preliminary COPECs was narrowed via a COPEC selection process. The COPEC selection process (represented in Figure C-3) includes the following specific steps:

1. Gather all data available from the site investigations and determine.
2. Evaluate a preliminary COPEC detection status.
3. Compare inorganic PCOPEC concentrations with naturally occurring background values.
4. Evaluate the environmental fate and transport properties of the PCOPECs.

5. Develop a COPEC list of chemicals that are likely to be site related and that will be evaluated in the SLERA.

Step 1 is discussed in more detail in **Section C.2.2.1**. For step 2, all chemicals positively identified at least once in soil were considered PCOPECs. Steps 3, 4, and 5 are discussed in the following section.

Comparison to Background Level Concentrations

A comparison of detected inorganics with site-specific background levels was made to identify naturally occurring chemicals not related to human activities at the sites (NMED 2000b). In other words, this comparison was conducted to identify inorganic chemical concentrations that may be found naturally at or near the site. For the comparisons, the maximum detected value in the site investigative data was compared to the upper tolerance limit value in the site-specific background data presented in Radian (1993). In accordance with NMED guidance (2000b), those PCOPECs present on site that are less than or equal to naturally occurring levels were eliminated from the quantitative risk assessment. PCOPECs that are greater than naturally occurring levels were retained as COPECs. The following inorganic analytes were not retained as COPECs because they are considered essential nutrients: calcium, magnesium, potassium, and sodium. These essential nutrients are not anticipated to pose adverse effects to ecological health. Furthermore, toxicity data for these analytes are unavailable. The comparisons to background concentrations are presented in the summary statistics tables (Tables C-3 and C-4).

Barium, cadmium, copper, lead, nickel, and zinc were all detected at concentrations in surface soil greater than background concentrations and, therefore evaluated quantitatively in the SLERA. Because background concentrations do no exist for organic compounds, all of the detected organic compounds were retained as COPECs. The results of the COPEC selection process for DP-63 are presented in Tables C-3 and C-4. The analytes considered COPECs in surface soil are bis(2-ethylhexyl) phthalate, diethyl phthalate, methylene chloride, barium, cadmium, copper, lead, nickel, and zinc. None of the metals detected in subsurface soil exceeded background concentrations. Subsurface soil COPECs are diethyl phthalate and cyanide.

C.2.2.3 COPEC Concentrations at Point of Potential Exposure

The COPEC concentrations used to represent the exposure point concentration for this SLERA are the maximum measured COPEC concentrations at DP-63 are presented in Table C-3 through C-4. This is a conservative assumption because there are three different areas within DP-63 that

have been identified. This means that the receptors are exposed to the maximum concentration of each COPEC regardless of where that detection occurred.

C.2.3 Exposure and Effects Analysis

This section describes how potential ecological risk will be determined and evaluated for the DP-63 site at Holloman AFB. The purpose of the exposure analysis is to estimate the nature, extent, and magnitude of potential exposure of receptors to COPECs present at the sites (USACE 1996). The following subsections describes the methodology used to quantify exposure of the community and guild receptors described in **Section C.1.2.4** to COPECs at DP-63. This is followed by an effects analysis which describes the toxicity information for each of the receptors. This information will be used to quantify the risk described in **Section C.2.4**.

Exposure Assessment

Exposure of ecological receptors to COPECs present at the sites is evaluated through consideration of exposure pathways. Ingestion of soil, plants, or prey are considered the primary routes of exposure for this SLERA, as identified in **Section C.2.1.2**. The summation of these exposure routes quantifies the total exposure of that measurement receptor to a COPEC. This is represented by the estimated exposure level (EEL) for each measurement receptor to a COPEC. Exposure assessments are conducted separately for each community measurement receptor and each class-specific guild measurement receptor.

C.2.3.1 Exposure Analysis for Community Measurement Receptors

Terrestrial invertebrates and plants are designated as community measurement receptors for this SLERA. Because the primary exposure route for terrestrial invertebrates and plants is through direct contact with the surrounding soil, the assumption is made that their exposure is equivalent to the maximum COPEC concentration in the soil.

C.2.3.2 Exposure Analysis for Class-Specific Guild Measurement Receptors

Exposure to class-specific guild measurement receptors was assessed by quantitatively estimating the daily dose of contaminated food items and abiotic media (soil) ingested using the following general equation below:

$$DD = \sum IR_{F-i} \; x \; C_{F-i} \; x \; P_{F-i} \; x \; F_{F-i} + \left(IR_S \; x \; C_S \; x \; P_S\right) \qquad \text{(Equation 1)}$$

Where:

DD	=	daily dose of COPEC ingested (milligrams of dry weight per kilogram body weight per day [mg/kg BW-day])
$IR_{F\text{-}i}$	=	daily ingestion rate for a specific (ith) food items (kilograms wet weight per kilogram body weight per day [kg WW/kg BW-day])
$C_{F\text{-}i}$	=	COPEC concentration in a specific (ith) food item (milligrams per kilogram wet weight [mg/kg WW])
$P_{F\text{-}i}$	=	proportion of a specific (ith) food item that is contaminated
$F_{F\text{-}i}$	=	fraction of diet consisting of a specific (ith) food item (unitless)
IR_S	=	soil ingestion rate (kg DW/kg BW-day)
C_S	=	COPEC concentration in soil (mg/kg DW)
P_S	=	proportion of ingested soil that is contaminated (unitless)

Refer to Table C-5 for species-specific exposure factors. The terms IR_F and IR_S represent the species-specific ingestion rates for food items and soil, respectively. Ingestion rates for the deer mouse, mourning dove, least shrew, and red-tailed hawk were adopted from *Guidance for Assessing Ecological Risks Posed by Chemicals: Screening-Level Ecological Risk Assessment* (NMED 2000a). For this screening-level assessment, it is assumed that all food and media ingested are from the contaminated site, so P_F and P_S are assumed to be equal to 1.0 (NMED 2000a). It is also assumed that the total COPEC concentration in food items and media are 100% bioavailable and that each individual species in a class-specific feeding guild is equally exposed. In addition, the lowest body weight and highest food and soil ingestion rates of those available in the literature were conservatively used (NMED 2000a). This means that the estimated daily dose will represent the maximum dose to the receptor.

For the deer mouse and red-tailed hawk, the dietary composition information (F_F) was extrapolated from information contained in the *Wildlife Exposure Factors Handbook* (EPA 1993). The deer mouse and red-tailed hawk F_F values were taken from studies of deer mice in a shortgrass prairie in Colorado and red-tailed hawks in the foothills habitat in California, respectively. For the least shrew, F_F was adopted from information provided for the short-tailed shrew (EPA 1993) because their dietary compositions are considered similar and because no

information was provided specifically for the least shrew. The F_F values for the deer mouse, red-tailed hawk, and least shrew were chosen because of similarities to the study's habitat and the habitats at DP-63. For the mourning dove, F_F was adopted from NMED (2000a).

The COPEC exposure point concentration in soil is assumed to be the maximum concentration in each of the surface and subsurface data sets for DP-63. As previously noted, exposure to soils was based on samples in the 0.0 through 0.5 foot and 0.5 through 5 feet intervals. Equation 1 also requires an estimate of the concentration in the food items ingested by the receptor (i.e., terrestrial invertebrates and plants for the least shrew, and small mammals and small birds for the red-tailed hawk). Therefore, the COPEC concentration is calculated for those measurement endpoints that are food items for other measurement receptors. Refer to the sections below for the methodology used to estimate these concentrations.

COPEC Concentrations in Terrestrial Invertebrates

COPEC concentrations in terrestrial invertebrates (C_{inv}) were estimated by multiplying a measured soil-to-invertebrate bioconcentration factor (BCF) by the concentration of the COPEC in the soil. BCF values are based on wet tissue weight and dry media weight. COPEC concentrations in terrestrial invertebrates are estimated for the surface and subsurface soil in each area of DP-63. Soil-to-invertebrate BCFs were adopted primarily from NMED (2000a). Table C-6 presents the BCFs used in this SLERA. For those organic COPECs for which a soil-to-invertebrate BCF could not be identified in the available literature (i.e., diethyl phthalate), a soil-to-invertebrate BCF was calculated using the following equation (Southworth et al. 1978, as cited in NMED 2000a):

Equation 2:

$$\log BCF = 0.819 \log K_{ow} - 1.146 \qquad \text{(Equation 2)}$$

Where:

$\log BCF$	=	logarithm of the bioconcentration factor (unitless)
$\log K_{ow}$	=	logarithm of the organic-water partition coefficient (unitless)

Estimating COPEC Concentrations in Terrestrial Plants

The COPEC concentration in the above ground portion of terrestrial plants due to root uptake is estimated using the equation below.

$$C_{TP} = C_s \ x \ BCF_r \ x \ 0.12 \qquad \text{(Equation 3)}$$

Where:

C_{TP}	=	plant concentration (in above ground portion) due to root uptake (milligrams COPEC per kilogram wet weight [mg COPEC/kg WW])
BCF_r	=	soil-to-plant bioconcentration factor (unitless)
C_s	=	COPEC concentration in soil (milligrams COPEC per kilogram dry weight of soil [mg COPEC/kg DW soil])
0.12	=	dry weight to wet weight conversion factor

This equation is adopted from NMED (2000a) and is based on Travis and Arms (1988), modified with a dry weight to wet weight conversion factor of 0.12 from Taiz et al. (1991). COPEC concentrations in terrestrial plants are estimated from the surface and subsurface soil data at DP-63. Soil-to-plant BCFs were adopted primarily from NMED (2000a). For those organic COPECs for which soil-to-plant BCFs could not be identified (diethyl phthalate and methylene chloride) in the available literature, a soil-to-plant BCF was estimated using the following equation (Travis and Arms [1988] as cited in NMED [2000a]):

$$\log BCF = 1.588 - 0.578 \log K_{ow} \qquad \text{(Equation 4)}$$

Where:

$\log BCF$	=	logarithm of the bioconcentration factor (unitless)
$\log K_{ow}$	=	logarithm of the organic-water partition coefficient (unitless)

For those inorganic COPECs for which a soil-to-plant BCF could not be identified in the available literature (i.e., cyanide), the soil-to-plant BCF was conservatively set equal to 1.0.

COPEC Concentrations in the Deer Mouse and Mourning Dove

Equations for generating COPEC concentrations for terrestrial vertebrates (i.e., the deer mouse and mourning dove) that are prey items for other potential receptors (i.e., red-tailed hawk) are specific to each feeding guild (i.e., herbivore, omnivore, and carnivore) and include terms for plants, terrestrial invertebrates, and media ingested. COPEC concentrations in prey items are based on the whole body concentration. The resulting COPEC concentrations are used in the calculation of daily dose of the red-tailed hawk (Equation 11), which consumes small mammals and small birds. The following equation was used to estimate COPEC concentrations in the deer mouse:

$$C_{DM} = (C_{TP} \ x \ BCF_{TP-DM} \ x \ P_{TP} \ x \ F_{TP}) + (C_{INV} \ x \ BCF_{INV-DM} \ x \ P_{INV} \ xF_{INV}) + (C_S \ x \ BCF_{S-MD} \ x \ P_S)$$

(Equation 5)

Where:

C_{DM}	=	COPEC concentration in the deer mouse (whole body) (mg/kg WW)
C_{TP}	=	COPEC concentration in terrestrial plants (mg/kg WW)
$BCF_{TP\text{-}DM}$	=	terrestrial plant-to-deer mouse bioconcentration factor (unitless)
P_{TP}	=	ratio of contaminated to total terrestrial plant in diet (unitless)
F_{TP}	=	fraction of diet comprised of terrestrial plants (unitless)
C_{inv}	=	COPEC concentration in terrestrial invertebrates (mg/kg WW)
$BCF_{INV\text{-}DM}$	=	terrestrial invertebrate-to-deer mouse bioconcentration factor (unitless)
P_{INV}	=	ratio of contaminated to total terrestrial invertebrates in diet (unitless)
F_{INV}	=	fraction of diet comprised of terrestrial invertebrates (unitless)
C_S	=	COPEC concentration in soil (mg/kg DW)
$BCF_{S\text{-}DM}$	=	soil-to-deer mouse bioconcentration factor (unitless)
P_S	=	ratio of contaminated to total ingested soil (unitless)

The COPEC concentrations in deer mice are estimated for the surface and subsurface data at DP-63. Soil-to-deer mouse and food-to-deer mouse BCFs were adopted primarily from NMED (2000a). For those organic COPECs for which no BCF was available in the literature (diethyl phthalate and methlylene chloride) a BCF for the deer mouse ingesting food or prey items was calculated using the compound-specific biotransfer factor (Ba) value and the measurement receptor-specific ingestion rate in the following equation:

$$BCF_{F-DM} = Ba_{DM} \ x \ IR_F \qquad \text{(Equation 6)}$$

Where:

BCF_{F-DM}	=	bioconcentration factor for food item-to-deer mouse (unitless)
Ba_{DM}	=	COPEC-specific biotransfer factor applicable for the deer mouse (days per kilogram fresh weight tissue [day/kg FW tissue]). Calculated in Equation 7.
IR_F	=	food ingestion rate (kilograms fresh weight per day [kg FW/day])

The Ba_{DM} was calculated from the following equation originally developed by Travis and Arms (1988):

$$\log Ba_{DM} = -7.6 + \log K_{ow} \qquad \text{(Equation 7)}$$

Where:

$\log Ba_{DM}$	=	logarithm of the COPEC-specific biotransfer factor applicable for the deer mouse (day/kg FW tissue)
$\log K_{ow}$	=	logarithm of the octanol-water partition coefficient (unitless)

For those inorganic COPECs for which no BCF was available in the literature, the BCF was assumed to be 1.0. This is a conservative assumption that 100 percent of the COPEC is concentrated in the deer mouse tissue.

The following equation was used to estimate COPEC concentrations in the mourning dove:

$$C_{MD} = (C_{TP} \ x \ BCF_{TP-MD} \ x \ P_{TP} \ x \ F_{TP}) + (C_S \ x \ BCF_{S-MD} \ x \ P_S) \qquad \text{(Equation 8)}$$

Where:

C_{MD}	=	COPEC concentration in the mourning dove (whole body) (mg/kg WW)
C_{TP}	=	COPEC concentration in terrestrial plants (mg/kg WW)
$BCF_{TP\text{-}MD}$	=	terrestrial plant-to-mourning dove bioconcentration factor (unitless)
P_{TP}	=	ratio of contaminated to total terrestrial plant in diet (unitless)
F_{TP}	=	fraction of diet comprised of terrestrial plants (unitless)
C_S	=	COPEC concentration in soil (mg/kg DW)
$BCF_{S\text{-}MD}$	=	soil-to-mourning dove bioconcentration factor (unitless)
P_S	=	ratio of contaminated to total ingested soil (unitless)

Soil-to-mourning dove and terrestrial plant-to-mourning dove BCFs were adopted primarily from NMED (2000a). For those organic COPECs for which no BCF was available in the literature (diethyl phthalate and methlylene chloride) a BCF for the mourning dove ingesting food items was calculated in a manner analogous to that described for the deer mouse above (Equations 6 and 7). The COPEC-specific biotransfer factor for the mourning dove (Ba_{MD}) was derived from the Ba_{DM} by assuming that the lipid content (by mass) of birds and mammals is 15 and 19 percent, respectively (NMED 2000a). Therefore, the derived BCFs for the mourning dove were derived by multiplying the Ba_{DM} by the bird/mammal fat content ratio of 0.8.

C.2.3.3 Estimating the COPEC Dose Ingested by Mammals and Birds

The equations in the following subsections calculate the dose ingested by the representatives of the different feeding guilds. The equations are variations of Equation 1 and estimate the exposure of members of the guild to the COPEC; these values are then compared to toxicity reference values (TRVs) (refer to Sections C.2.4 and C.2.5 for this comparison).

The following equation was used to estimated the daily dose of COPEC ingested by the deer mouse and the least shrew:

$$D_{OM} = (C_{TP}\ x\ IR_{OM}\ x\ P_{TP}\ x\ F_{TP}) + (C_{INV}\ x\ IR_{OM}\ x\ P_{INV}\ x\ F_{INV}) + (C_S\ x\ IR_{S-OM}\ x\ P_S)$$

(Equation 9)

Where:

D_{OM}	=	daily dose of COPEC ingested by omnivorous terrestrial mammals (i.e., deer mouse and least shrew) (mg COPEC/kg-day)
C_{TP}	=	COPEC concentration in terrestrial plants (mg/kg WW)
IR_{OM}	=	food ingestion rate of omnivorous terrestrial mammals (i.e., deer mouse and least shrew) (kg WW/kg BW-day)
P_{TP}	=	ratio of contaminated to total terrestrial plant in diet (unitless)
F_{TP}	=	fraction of diet comprised of terrestrial plants (unitless)
C_{INV}	=	COPEC concentration in terrestrial invertebrates (mg/kg WW)
P_{INV}	=	ratio of contaminated to total terrestrial invertebrates in diet (unitless)
F_{INV}	=	fraction of diet comprised of terrestrial invertebrates (unitless)
C_S	=	COPEC concentration in soil (mg/kg DW)
IR_{S-OM}	=	soil ingestion rate of omnivorous terrestrial mammals (i.e., deer mouse and least shrew) (kg DW/kg BW-day)
P_S	=	ratio of contaminated to total ingested soil (unitless)

The estimated daily dose of the COPECs for the deer mouse and the least shrew are included in Tables C-7 and C-9, respectively.

The following equation was used to estimated the daily dose of COPEC ingested by the mourning dove:

$$D_{HB} = (C_{TP}\ x\ IR_{HB}\ x\ P_{TP}\ x\ F_{TP}) + (C_S\ x\ IR_{S-HB}\ x\ P_S)$$ (Equation 10)

Where:

D_{HB}	=	daily dose of COPEC ingested by herbivorous bird (i.e., mourning dove) (milligrams COPEC per kilogram body weight per day [mg COPEC/kg BW-day])
C_{TP}	=	COPEC concentration in terrestrial plants (mg/kg WW)
IR_{HB}	=	food ingestion rate of herbivorous bird (i.e., mourning dove) (kg WW/kg BW-day)
P_{TP}	=	ratio of contaminated to total terrestrial plant in diet (unitless)
F_{TP}	=	fraction of diet comprised of terrestrial plants (unitless)
C_S	=	COPEC concentration in soil (mg/kg DW)
$IR_{S\text{-}HB}$	=	soil ingestion rate of herbivorous bird (i.e., mourning dove) (kg DW/kg BW-day)
P_S	=	ratio of contaminated to total ingested soil (unitless)

The daily doses of COPECs for the mourning dove are included in Table C-8 for surface soil at DP-63.

The following equation was used to estimated the daily dose of COPEC for the red-tailed hawk (Table C-10):

$$D_{CB} = (C_{HB}\ x\ IR_{CB}\ x\ P_{HB}\ x\ F_{HB}) + (C_{OM}\ x\ IR_{CB}\ P_{OM}\ x\ F_{OM}) + (C_S\ x\ IR_{S-CB}\ x\ P_S)$$

(Equation 11)

Where:

D_{CB}	=	daily dose of COPEC ingested by carnivorous terrestrial birds (i.e., red-tailed hawk) (mg COPEC/kg BW-day)
C_{MD}	=	COPEC concentration in herbivorous birds (whole body) (mg/kg WW) (Calculation of this variable is described in Equation 8)
IR_{CB}	=	food ingestion rate of carnivorous terrestrial birds (i.e., red-tailed hawk) (kg WW/kg BW-day)

P_{HB}	=	ratio of contaminated to total herbivorous birds in diet (unitless)
F_{HB}	=	fraction of diet comprised of herbivorous birds (unitless)
C_{DM}	=	COPEC concentration in omnivorous mammals (whole body) (mg/kg WW) (Calculation of this variable is described in Equation 5)
P_{OM}	=	ratio of contaminated to total omnivorous mammals in diet (unitless)
F_{OM}	=	fraction of diet comprised of omnivorous mammals (unitless)
C_S	=	COPEC concentration in soil (mg/kg DW)
$IR_{S\text{-}CB}$	=	soil ingestion rate of carnivorous terrestrial birds (i.e., red-tailed hawk) (kg DW/kg BW-day)
P_S	=	ratio of contaminated to total ingested soil (unitless)

The small bird potion of the hawk's diet is comprised of the mourning dove, while the small mammal portion is the deer mouse. Similar to the mourning dove, the red-tailed hawk is only expected to be exposed to surface soil (0.0 to 0.5 ft). Therefore, an estimated dose is only calculated for exposure to surface soil. However, the small mammal portion of the hawk's diet is exposed to COPECs through burrowing in both the surface and subsurface soil depths. Despite the potential exposure to the subsurface soil from the diet of the red-tailed hawk, a subsurface soil dose was not calculated. This is because subsurface soil contains only two COPECs and the cumulative ecological screening quotient (discussed below in Section C.2.4) for the deer mouse exposure to subsurface soil is minimal.

C.2.3.4 Effects Analysis

The toxicity of a COPEC is assessed by identifying TRVs specific to a COPEC and to the measurement receptor being evaluated. The TRV is the dose for a measurement receptor that is likely to be without appreciable risk of deleterious effects from chronic exposure. TRVs are therefore developed based on a no-observable-adverse-effects-level (NOAEL) for a particular COPEC. NOAELs are derived experimentally or estimated by applying uncertainty factors to available toxicity data. The chronic NOAEL is used as the toxicity value endpoint to determine the TRV in this SLERA to protect against chronic effects. If a chronic NOAEL was not available, sub-chronic NOAELs or a lowest-observable-adverse-effects-level (LOAEL) was used

after applying uncertainty factors to these values. The application of uncertainty factors to sub-chronic NOAELs or LOAELs is performed in an attempt to estimate the lower, or more conservative, NOAELs. The use of uncertainty factors is consistent with guidance given in Section 3.2.2.2 of NMED 2000a. The following describes when and which uncertainty factors were applied to the toxicity values used in this SLERA.

Endpoint from Toxicity Study	Uncertainty Factor	Resulting TRV
Subchronic NOAEL	0.1	Chronic NOAEL
Chronic LOAEL	0.1	Chronic NOAEL
LC_{50} or LD_{50}	0.01	Chronic NOAEL

LC_{50} = lowest concentration that is lethal to 50 percent of the test population
LD_{50} = lowest dose that is lethal to 50 percent of the test population

For lower trophic level communities (i.e., terrestrial invertebrates and plants), these TRVs are presented as media levels (in milligrams per kilogram) because it is assumed that the level of COPEC in these organisms will be proportional to the concentration in the media. TRVs for terrestrial plants are provided in Table C-11. TRVs for terrestrial invertebrates are provided in Table C-12. TRVs for upper trophic level class-specific guilds are expressed in terms of dose ingested (in mg/kg BW-day). TRVs for upper trophic level species are provided in Table C-13.

TRVs used in this SLERA were primarily adopted from NMED 2000a. For those COPECs and receptors for which NMED 2000a did not present a TRV, toxicity values were adopted from *Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision* (Efroymson et al. 1997a), *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Update* (Efroymson et al. 1997b), and *Toxicological Benchmarks for Wildlife: 1996 Revision* (Sample et al. 1996).

C.2.4 Risk Characterization

This section integrates the exposure assessment and the toxicity assessment from the previous sections to produce an estimate of risk in the form of ecological screening quotients (ESQs) for a single chemical or cumulative ecological screening quotients (CESQs) for multiple chemicals. The calculation of a CESQ was completed in accordance with NMED guidance (2000a). These ESQs and CESQs are receptor specific, media specific, and COPEC specific. For those COPECs

with an ESQ or CESQ exceeding the benchmark, a description of the risk to the receptor is included in **Section C.2.5**.

An ESQ is equal to the COPEC EEL divided by the TRV. For community receptors, the EEL is equal to the media concentration of the COPEC. For guild measurement receptors, the EEL is equal to the daily dose of COPEC ingested per unit body weight. The methodology for the calculation of EELs for guild measurement receptors are presented in **Section C.2.3** and the results are presented in Tables C-15 through C-20. For both community and guild receptors, the ESQ is defined by the equation below.

$$ESQ = \frac{EEL}{TRV}$$

Each of the COPEC-specific ESQ values for a receptor are summed to derive a CESQ for each receptor according to the following equation:

$$CESQ_{Receptor} = \sum ESQ_{COPEC}$$

CESQs assume that the exposure and risk from multiple contaminants are additive (i.e., two or more contaminants may affect the same target organs or organ systems and/or act by similar mechanisms) (NMED 2000a). This is a conservative assumption.

C.2.5 Description of Risk

The exceedance of toxicological benchmarks does not imply certain ecological risk; rather, the exceedance indicates contamination may be sufficient to warrant further investigation.

ESQs greater than 1.0 indicate potential risk to an ecological receptor and may indicate the need for further evaluation using more site-specific information. ESQs less than 1.0 indicate no potential ecological risk. COPECs with ESQs less than 1.0 can be removed from further consideration due to the inherent and conservative assumptions applied to derive the ESQ.

The results of the SLERA are discussed separately for surface and subsurface soil below. Within the subsection designated for each media of concern, the results are discussed for terrestrial invertebrates, plants, the deer mouse, mourning dove, least shrew, and red-tailed hawk. A summary of the risk to community and guild measurement receptors at DP-63 is presented in Table C-14.

The analysis of the risk estimates identified the vast majority of risk was from barium, lead, cadmium and zinc. Although the risk estimates for barium and cadmium are elevated, the risk estimates are expected to be overestimated.

Although the maximum barium concentration in soil at DP-63 (103 mg/kg) exceeds site background, it is less than Western U.S. background values. Shacklette and Boerngen (1984) report that the arithmetic mean of barium concentrations in the Western U.S. is 670 mg/kg. Therefore, the concentrations of barium at DP-63 are within the natural range of barium in the Western U.S.

Cadmium ESQs in the surface soil are elevated for plants, deer mouse, and least shrew (24.2, 40.5, and 98.2, respectively). If cadmium background concentrations are used in the risk model, the estimated ESQs are 5.2, 8.7, and 21.1 for plants, deer mouse, and least shrew, respectively. This demonstrates that while cadmium ESQs are elevated at site concentrations, the incremental risk above background is low. Furthermore, cadmium was only detected once at DP-63. This was in the West Area. The ESQs for cadmium could be overestimated because of the conservative assumptions used in the risk model and not representative of the entire site.

The elevated metal ESQs could be a result of surface debris present at DP-63. Metallic debris was present during sampling activities during the 2002 sampling event. If samples were collected near the surface debris, this could elevate the sample results for lead, copper, and nickel. It is likely that metal is surface debris would have low bioavailability.

Risk Estimate for DP-63

Surface Soil

Terrestrial Plants

Risk estimates for surface soil at DP-63 show terrestrial plants potentially at risk from exposure from barium (ESQ = 20.6), cadmium (ESQ = 24.2), copper (ESQ = 1,330), lead (ESQ = 165), nickel (13), and zinc (ESQ = 1580). Risk to plants from exposure to cadmium might be an overestimate because risk to plants also occurs at background concentrations of cadmium at DP-63 (ESQ = 5.2). Furthermore, cadmium was only detected once at DP-63, in the smaller West Area. The surface soil in DP-63 had a CESQ for terrestrial plants equal to 3,100. The CESQ is elevated primarily by the copper and zinc ESQs. The elevated ESQ presented for copper might be overestimated. The maximum detection of copper in surface soil (1,330 mg/kg) was two orders of magnitude greater than the next highest detection (57.2 mg/kg). It should be noted that

all of the detected surface soil values of copper exceeded the terrestrial plant TRV. The elevated zinc ESQ, like copper, is a result of the maximum detection being significantly higher than the next highest detection. Both of the maximum concentrations of copper and zinc were from the same sample from the West Area. This means that the ESQs may not be representative of the entire site. This is especially true since that plants are immobile, they will only be exposed a small area. It should also be noted that the other COPECs had elevated ESQs. However, there is some uncertainty associated with the TRVs used for the risk characterization. Many of the test species used in toxicity studies are agricultural species that may be more sensitive than native species. Chemical forms at the site might not be as bioavailable vary from those in the toxicity studies. Site-specific conditions like pH, soil type, and total organic carbon can greatly affect bioavailability. Risk to terrestrial plants could not be calculated for methylene chloride or cyanide due to lack of toxicity data. Methylene chloride is a common laboratory contaminant, and the low concentrations detected may not be site-related. No risk to terrestrial plants is expected from exposure to bis(2-ethylhexyl)phthalate or diethyl phthalate. Refer to Table C-15 for the results of the risk calculations.

Terrestrial Invertebrates

Risk estimates for surface soil at DP-63 show terrestrial invertebrates to potentially be at risk from exposure to copper (ESQ = 13.3), lead (ESQ = 7.6), and zinc (ESQ = 7.1). The surface soil in DP-63 had a CESQ for terrestrial invertebrates equal to 29. As stated in the discussion for plants, above, the copper and zinc ESQs are not anticipated to represent risk to invertebrates across DP-63. This is because the maximum detections are much higher than the next highest detections and are from the same sample. The same is true for lead. Lead had two detections much greater than the rest of the detections at DP-63. Of the remaining 15 samples, only two slightly exceeded the background value. Risk to terrestrial invertebrates could not be calculated for bis(2-ethylhexyl)phthalate, methylene chloride, and cyanide due to lack of toxicity data. Methylene chloride is a common laboratory contaminant, and the low concentrations detected may not be site-related. No risk to terrestrial invertebrates is expected from exposure to diethyl phthalate, cadmium, or nickel. Refer to Table C-16 for the results of the risk calculations.

Deer Mouse

Risk estimates for surface soil at DP-63 show deer mouse potentially at risk from exposure to barium (ESQ = 10.5), cadmium (ESQ = 40.5), copper (ESQ = 2.82), lead (ESQ = 189), and zinc (ESQ = 15.8). Risk to deer mouse from exposure to cadmium might be an overestimate, as

previously discussed. The lead ESQ is not anticipated to representative of the potential risk present to deer mouse across DP-63. As discussed above, lead had two detections much greater than the rest of the detections at DP-63. Of the remaining 15 samples, only two slightly exceeded the background value. The surface soil in DP-63 had a CESQ for deer mouse equal to 260. No risk to deer mouse is expected from exposure to bis(2-ethylhexyl)phthalate, diethyl phthalate, methylene chloride, or nickel. Refer to Table C-17 for the results of the risk calculations.

Mourning Dove

Risk estimates for surface soil at DP-63 show mourning dove potentially at risk only from exposure to lead (ESQ = 270). The surface soil in DP-63 had a CESQ for mourning dove equal to 270. As discussed above, the lead ESQ is not anticipated to representative of the potential risk present to mourning dove across DP-63. No risk to the mourning dove is expected from exposure to bis(2-ethylhexyl)phthalate, diethyl phthalate, methylene chloride, barium, cadmium, copper, nickel, or zinc. Refer to Table C-18 for the results of the risk calculations.

Least Shrew

Risk estimates for surface soil at DP-63 show least shrew potentially at risk from exposure to barium (ESQ = 26), cadmium (ESQ = 98.2), copper (ESQ = 4.35), lead (ESQ = 599), and zinc (ESQ = 41.2). The surface soil in DP-63 had a CESQ for least shrew equal to 770. Risk to the least shrew from exposure to cadmium might be an overestimate, as previously discussed. Also previously discussed is why the lead ESQ is not anticipated to representative of the potential risk present to least shrew across DP-63. No risk to least shrew is expected from exposure to bis(2-ethylhexyl)phthalate, diethyl phthalate, methylene chloride, or nickel. Refer to Table C-19 for the results of the risk calculations.

Red-tailed Hawk

Risk estimates for surface soil at DP-63 show the red-tailed hawk potentially at risk from exposure to copper (ESQ = 5.68) and lead (ESQ = 584). The surface soil in DP-63 had a CESQ for red-tailed hawk equal to 590. As previously discussed, the lead ESQ is not anticipated to representative of the potential risk present to mourning dove across DP-63. It should also be noted that the ESQ are anticipated to be overestimates for the red-tailed hawk. The red-tailed hawk has an average home range of 1,770 hectares (EPA 1993). This SLERA assumed the red-tailed hawk's home range was equal to the size of DP-63, which is much lower than the hawk's average home range. Therefore, the red-tailed hawk's true exposure would be much less than

what was evaluated. No risk to terrestrial red-tailed hawk is expected from exposure to bis(2-ethylhexyl)phthalate, diethyl phthalate, methylene chloride, barium, cadmium, nickel, or zinc. Refer to Table C-20 for the results of the risk calculations.

Subsurface Soil

Terrestrial Plants, Terrestrial Invertebrates, Deer Mouse, and Least Shrew

No risk (ESQs and CESQ <1) to terrestrial plants, terrestrial invertebrates, deer mouse, or least shrew for subsurface soil COPECs at DP-63 is anticipated. These results are presented in Tables C-15 through C-20.

C.2.6 Limitations and Uncertainties in the SLERA

There are a number of sources of uncertainty associated with the characterization of potential risk at DP-63 at Holloman AFB. These uncertainties should be kept in mind when interpreting the results of the assessment. There are uncertainties associated with the receptor species selected for evaluation, the sampling and COPEC selection process, the assumptions used in estimating the daily dose ingested by the receptor species, and the toxicity information used. The effect these uncertainties may have on the results of the SLERA are discussed qualitatively below and are summarized in Table C-21.

The ecological screening process is based on the premise that protection of ecological receptors chosen based on their role within the ecosystem will protect the ecosystem as a whole. This approach allows the quantitative evaluation of risk at the site. However, it is possible that the receptors that were chosen for this SLERA are not the most sensitive to the effects of a particular COPEC. Two of the criteria that were used to select the receptors are availability of life history information and availability of toxicity information. Neither of these criteria reflect the relative sensitivity of the receptors being considered. The potential to underestimate risk because of the uncertainties associated with the selection of potential receptors is moderate. However, the selected receptors are likely to be among the most exposed given their life histories.

There is uncertainty associated with the COPEC selection process. This process attempted to consider all chemicals that could be present at the site. However, it is possible that a chemical is present that was not detected during sampling and was not expected to be present; this chemical may therefore, be left off the COPEC list. In addition, chemicals were eliminated from the COPEC list based on a comparison with background concentrations. This methodology creates a low potential that risk has been underestimated at the site.

There is also some uncertainty associated with the exposure assumptions used in this SLERA. The selected exposure assumptions were as conservative as possible. These assumptions may overestimate the risk that exists at DP-63. For example, it was conservatively assumed that the red-tailed hawk feeds entirely on prey species from DP-63 that have concentrations of COPECs bioconcentrated in their tissues. In reality, the red-tailed hawk may have a home range of up to 1,770 hectares (NMED 2000a). A home range this size would result in the red-tailed hawk preying on lower trophic level species from areas not affected by COPECs. It was also assumed that the exposure point concentration was equal to the maximum concentration detected at DP-63. This assumption likely overestimates the concentration of the COPECs to which the receptors are exposed. This is because there are three distinct areas of potential contamination at DP-63 (North, East, and West Areas). The maximum detection was used regardless of what area it occurred in and it was assumed that the receptor will be equally exposed to this concentration throughout DP-63. No natural attenuation or dispersal of the COPECs was taken into account. This assumption also likely overestimates the concentration of COPECs future receptor exposure. The potential for overestimating risk due to these assumptions is high.

Uncertainties related to estimating the tissue concentrations of COPECs are generated by assumptions about the bioconcentration of COPECs by receptors and how the COPECs are metabolized. Tissue concentrations were estimated because no biota samples were collected for this investigation. Bioconcentration data reported in the literature may be specific to a tissue or organ and not reflective of whole body accumulation or the lipophilicity of a COPEC may not be the only predictor of its bioconcentration potential. In addition, many BCFs were unavailable for the COPECs at DP-63. Therefore, BCFs were calculated, adopted from surrogate chemicals, or default values (1.0) were assigned. As a result, the potential for the estimated dose and risk to be or underestimated is moderate.

Basing toxicity values on surrogate domestic species to determine the toxicity to a wildlife species also is a source of uncertainty. For example, the lead toxicity value for the red-tailed hawk was estimated from a study conducted on ringed-necked turtle doves. Uncertainty factors are assigned to the toxicity values when they are developed in an attempt to account for these uncertainties. The application of uncertainty factors are generally high enough that the tendency would be to overestimate toxicity. The potential to underestimate risk due to this methodology is moderate.

There is uncertainty associated with the assumption that COPECs are 100 percent bioavailable to plants and animals. Bioavailability of COPECs can vary substantially with factors such as pH, temperature, alkalinity of soil, organic carbon content of soil, soil type, and health of the individual animal. The potential to overestimate risk due to this assumption is moderate to high.

C.3 CONCLUSIONS

The risk characterization showed that potential risk to COPECs at DP-63 for measurement receptors only occurred in surface soil. The subsurface soil only had two COPECs (diethyl phthalate and cyanide) and their ESQs were below 1.0. The risk characterization determined that there was a potential risk from exposure to barium, cadmium, copper, lead, nickel, and zinc in surface soils. Results of the risk characterization are summarized in Table C-14.

ESQs ranged from 2.8 for the deer mouse from copper exposure to 1,580 for terrestrial plants from zinc exposure. The largest ESQs for upper-level trophic species were from exposure to lead. The ESQs for lead for all receptors, except terrestrial invertebrates, were greater than 100. The deer mouse had the lowest lead ESQ (189) while the least shrew had the highest (599). The red-tailed hawk's ESQ for lead was 584. When the arithmetic mean for lead is used as the exposure point concentration, ESQs for the all receptors were also elevated. Lead had two detections much greater than the rest of the detections at DP-63. Of the remaining 15 samples, only two slightly exceeded the background value. This means that the lead ESQs may not be representative of the entire site. These elevated ESQs could also be a result of surface debris present at DP-63. Metallic debris was present during sampling activities during the 2002 sampling event. If samples were collected near the surface debris, this could elevate the sample results for lead, copper, and nickel. It is likely that metal is surface debris would have low bioavailability.

The ESQs associated with copper in upper-level trophic species were all less than 10 at DP-63. ESQs less than 10 are probably elevated due to uncertainties inherent in this SLERA. The largest copper ESQ 2.8. In addition, the maximum detection of copper in surface soil (1,330 mg/kg) was two orders of magnitude greater than the next highest detection (57.2 mg/kg). Therefore, ecological risk from exposure to copper at DP-63 is unlikely.

Elevated ESQs were also present from exposure to barium and cadmium. Although the risk estimates for these COPECs are elevated, the risk estimates are potentially overestimated. Although the maximum barium concentration in soil at DP-63 (103 mg/kg) exceeds site

background, it is less than Western U.S. background values. Shacklette and Boerngen (1984) report that the arithmetic mean of barium concentrations in the Western U.S. is 670 mg/kg. Therefore, the concentrations of barium at DP-63 are within the natural range of barium in the Western U.S. and the ESQs might reflect natural conditions.

Cadmium ESQs in the surface soil are elevated for plants, deer mouse, and least shrew (24.2, 40.5, and 98.2, respectively). If cadmium background concentrations are used in the risk model, the estimated ESQs are 5.2, 8.7, and 21.1 for plants, deer mouse, and least shrew, respectively. This demonstrates that while cadmium ESQs are elevated at site concentrations, the incremental risk above background is low. Furthermore, cadmium was only detected once at DP-63. This was in the West Area. The ESQs for cadmium could be overestimated because of the conservative assumptions used in the risk model and not representative of the entire site.

ESQs for community level receptors were also elevated. Copper and zinc were the only COPECs that had slightly elevated ESQs for terrestrial invertebrates. All of the inorganic COPECs produced elevated ESQs for terrestrial plants. The elevated zinc ESQ, like copper, is a result of the maximum detection being significantly higher than the next highest detection. Both of the maximum concentrations of copper and zinc were from the same sample from the West Area. This means that the ESQs may not be representative of the entire site. However, there is some uncertainty associated with the TRVs used for the risk characterization. Many of the test species used in toxicity studies are agricultural species that may be more sensitive than native species. For example, the plant used as the basis of the chromium toxicity value is lettuce. Chemical forms at the site might not be as bioavailable vary from those in the toxicity studies. Site-specific conditions like pH, soil type, and total organic carbon can greatly affect bioavailability.

Federal and state listed threatened, endangered, candidate and sensitive species were not quantitatively evaluated in this SLERA. The conservatism inherent in the SLERA is designed to be protective of all potential ecological receptors.

The SLERA was designed to evaluate potential risk to representative receptors from multiple trophic levels present at the site. There are many sources of uncertainties in the risk assessment, partially because of basing exposure estimates on modeled values instead of measured tissue concentrations. The risk characterization indicated that risk might be present for multiple trophic level species from COPECs present DP-63.

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TABLES

Table C-1. List of Plants and Animals That Typically Occur in Habitats at DP-63, Holloman AFB[1]

	Common Name	Scientific Name
PLANTS		
Forbes	Fourwing saltbush	*Atriplex canescens*
	Honey mesquite	*Prosopsis glandulosa*
	Claret cup cactus	*Echniocereus triglochidiatus*
	Narrow-leaved yucca	*Yucca glauca*
Grasses	Gyp dropseed	*Sporobolus nealleyi*
	Alkali sacaton	*Sporobolus airoides*
	Hairy coldenia	*Tiquilia hispidissima*
AMPHIBIANS/REPTILES		
Lizards	Common collared lizard	*Crotaphytus collaris*
	Long-nosed leopard lizard	*Gambelia wislizenii*
	Lesser earless lizard	*Holbrookia maculata*
	Texas horned lizard	*Phrynosoma cornutum*
	Short-horned lizard	*Phrynosoma douglassi*
	Side-blotched lizard	*Uta stansbutiana*
	Desert spiny lizard	*Sceloporus magister*
	Little striped whiptail	*Cnemidophorus inornatus*
	New Mexico whiptail	*Cnemidophorus neomexicanus*
	Checkered whiptail	*Cnemidophorus tesselatus*
	Coachwhip	*Masticophis flagellum*
Snakes	Western diamondback rattlesnake	*Crotalus atrox*
	Western rattlesnake	*Crotalus viridis*
	Gopher snake	*Sonora semiannulata*
	Massasauga	*Sistrurus catenatus*
Toads	Couch's spadefoot toad	*Scaphiopus couchii*
BIRDS		
Hawks/Falcons	Peregrine falcon	*Falco peregrinus*
	Ferruginous hawk	*Buteo regalis*
	Prairie falcon	*Falco mexicanus*
	Swainson's hawk	*Buteo swainsoni*
	Northern aplomado falcon	*Falco femoralis septenrionalis*
Eagle	Bald eagle	*Haliaetus leucocephalus*
Coots	American coot	*Fulica americana*
Doves	Common ground dove	*Columbina passerina*
Quails	Scaled quail	*Callipepla squamata*
Plovers	Western snowy plover	*Charadrius alexandrinus nivosus*
	Mountain plover	*Charadrius montanus*
	Killdeer	*Charadrius vociferus*
	Western meadowlark	*Sturnella neglecta*
Flycatchers	Western Kingbird	*Tyrannus verticalis*

Table C-1. List of Plants and Animals That Typically Occur in Habitats at DP-63, Holloman AFB[1]

	Common Name	Scientific Name
Shrikes	Loggerhead shrike	*Lanius ludovicianus*
Owls	Western burrowing owl	*Athene cunicularia hypugaea*
Sparrows	Baird's sparrow	*Ammodramus bairdii*
	Chipping sparrow	*Spizella passerina*
	Brewer's sparrow	*Spizella breweri*
MAMMALS		
Hares/Rabbits	Black-tailed jackrabbit	*Lepus californicus*
Rodents	Desert pocket mouse	*Chaetodupus penicillatus*
	Merriam kangaroo rat	*Dipodomys merriami*
	Ord's kangaroo rat	*Dipodomys ordii*
	House mouse	*Mus musculus*
	Southern plains woodrat	*Neotoma micropus canescens*
	Merarn's grasshopper mouse	*Onychomys arenicola*
	Plains pocket mouse	*Perognathus flavescens*
	Plains pocket mouse (lighter pelage)	*Perognathus flavescens gypsi*
	Silky pocket mouse	*Perognathus flavus*
	Cacuts mouse	*Peromyscus eremicus*
	White-footed mouse	*Peromyscus leucopus*
	Deer mouse	*Peromyscus maniculatus*
	Western harvest mouse	*Reithrodontomys megalotis*
	Spotted ground squirrel	*Spermophilus spilosoma*
Bats	Pallid bat	*Antrozus pallidus pallidus*
	Mexican free-tailed bat	*Tadarida brasiliensis*
	Hoary bat	*Lasiurus cinereus*
	Small-footed myotis	*Myotis cilolabrum melanorhinus*
	California myotis	*Myotis californicus*
	Townsend's big-eared bat	*Corynorhinus townsendii*
	Silver-haired bat	*Lasionycteris noctivagans*
	Spotted bat	*Euderma maculatum*
Carnivores	Mountain lion	*Felis concolor*
	Kit fox	*Vulpes macrotis neomexicanus*
	Coyote	*Canis latrans*
	Longtail weasel	*Mustela frenata*
	Ringtail	*Bassariscus astutus*
Herbivore	Porcupine	*Erethizon dorsatum*
Ungulates	Mule deer	*Odocoileus hemionus*
	Desert mule deer	*Odocoileus hemionus crooki*

Notes:

(1) List was adapted from a species list of plants and animals from Integrated Natural Resource Management Plan (HAFB 2001) to show species associated with terrestrial habitats.

AFB = Air Force Base

Table C-2. Federal- and State-Protected Plants and Animals Potentially Occurring in the Vicinity of DP-63, Holloman AFB [1]

Common Name	Scientific Name	Federal Status	State Status	Potentially Occuring at DP-63
REPTILES				
Texas horned lizard	*Phrynosoma cornutum*	s		
BIRDS				
Northern gray hawk	*Buteo nitidus maximus*	s	s	
Ferruginous hawk	*Buteo regalis*	s	--	
Peregrine falcon	*Falco perigrinus*	m	Threatened	
Northern aplomado falcon	*Falco femoralis septenrionalis*	Endangered	Endangered	
Bald eagle	*Haliaetus leucocephalus*	Threatened	Threatened	
Western snowy plover	*Charadrius alexandrinus nivosus*	Threatened	--	
Mountanin plover	*Charadrius montanus*	pt	pt	
Western burrowing owl	*Athene cunicularia hypugaea*	s	--	
Baird's sparrow	*Ammodramus bairdii*	s	Threatened	X
Costa's hummingbird	*Calypte costae*	--	Threatened	
Loggerhead shrike	*Lanius ludovicianus*	s	--	
MAMMALS				
Plains pocket mouse	*Perognathus flavescens*	--	s	X
Small-footed myotis	*Myotis cilolabrum melanorhinus*	s	s	
Townsend's big-eared bat	*Corynorhinus townsendii*	s	s	
Spotted bat	*Euderma maculatum*	s	Threatened	
Ringtail	*Bassariscus astutus*	--	s	
Rock squirrel	*Spermophilus variegatus (Erxleben)*	--	s	
PLANTS AND LICHENS				
Paperspine fishook cactus[2]	*Sclerocactus papyracanthus*	s	s	
Gypsophyllous lichen	*Acarospora clauzadeana*	--	--	

Notes:

[1] List taken from the Holloman Sensitive Species List (HAFB 2002).

[2] Paperspine fishook cactus was formerly known as grama grass cactus.

AFB = Air Force Base

m = Species currently in population-monitoring phase following delisting action

pt = Taxa proposed to be listed as threatened

s = Federal Species of Concern (formerly labeled as candidate species, taxa for which the United States Fish and Wildlife Service has enough substantial evidence on biological vulnerability and threat(s) to support proposals to list as endangered or threatened species).

-- = Is not currently listed as a federal- and state-protected species

Table C-3. Summary Statistics for Analytes in Surface Soil (0 to 0.5 ft bgs) at DP-63 at Holloman AFB

Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Location of Maximum Detection	Arithmetic Mean Concentration [1] (mg/kg)	Number of Detections/ Number of Samples	Range of Detection Limits (mg/kg)	Background Concentration[2] (mg/kg)	Maximum Detection Greater Than Background?	Is Analyte considered a COPEC?
Organics[3]									
Bis(2-ethylhexyl) Phthalate	0.4	0.4	DP63-DP13	0.21	1/17	0.36-0.45	--	--	***Yes***
Diethyl Phthalate	0.85	1.6	DP63-DP11	0.31	2/17	0.36-0.45	--	--	***Yes***
Methylene Chloride	0.0025	0.0038	DP63-DP09	0.003	3/20	0.005-0.007	--	--	***Yes***
Inorganics									
Aluminum	541	5830	DP63-DP18	2570	17/17	21.6-27.5	8760	No	No
Arsenic	1.35	1.62	DP63-MW02	0.810	4/17	1.08-1.38	6.88	No	No
Barium	20.2	103	DP63-MW04	48.3	17/17	1.08-1.38	84.4	***Yes***	***Yes***
Cadmium	4.83	4.83	DP63-DP13	0.840	1/17	1.08-1.38	1.04	***Yes***	***Yes***
Calcium	77200	311000	DP63-DP10	191000	17/17	108-1190	250000	***Yes***	No[4]
Chromium	2.61	4.72	DP63-DP08	2.47	10/17	2.16-2.75	6.60	No	No
Copper	2.82	1330	DP63-DP19	91.0	17/17	2.16-2.75	4.84	***Yes***	***Yes***
Iron	385	5400	DP63-DP18	2310	17/17	21.6-27.5	6360	No	No
Lead	1.75	759	DP63-DP06	56.2	14/17	1.08-1.38	8.00	***Yes***	***Yes***
Magnesium	1040	15200	DP63-DP18	3730	17/17	108-138	14700	***Yes***	No[4]
Manganese	8.65	88.8	DP63-DP12	45.7	17/17	1.08-1.38	165	No	No
Nickel	2.45	59.6	DP63-DP16	5.41	8/17	2.16-2.75	5.61	***Yes***	***Yes***
Potassium	168	1590	DP63-DP10	746	12/17	539-689	2500	No	No[4]
Sodium	84.7	6460	DP63-DP18	1490	17/17	108-138	5000	***Yes***	No[4]
Vanadium	2.65	12.2	DP63-DP11	4.94	13/17	2.16-2.75	15.5	No	No
Zinc	4.33	1420	DP63-DP13	113.5	17/17	1.08-1.38	20.2	***Yes***	***Yes***

Notes:

(1) Mean concentration includes one-half the detection limit for nondetections.

(2) Background values are 95 percent upper tolerance limits taken from the Basewide Background Study (Radian 1993).

(3) The detected organic analytes are common laboratory contaminants and may not be related to site activities.

(4) These analytes are essential nutrients, and therefore, are not considered COPECs, even though the maximum detection is above background.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg = Milligrams per kilogram

-- = Not applicable

Table C-4. Summary Statistics for Analytes in Subsurface Soil (0.5 to 5 ft bgs) at DP-63 at Holloman AFB

Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Location of Maximum Detection	Arithmetic Mean Concentration [1] (mg/kg)	Number of Detections/ Number of Samples	Range of Detection Limits (mg/kg)	Background Concentration[2] (mg/kg)	Maximum Detection Greater Than Background?	Is Analyte considered a COPEC?
Organics[3]									
Diethyl Phthalate	1.1	1.2	DP63-DP16	0.320	2/15	0.37-0.44	--	--	***Yes***
Inorganics									
Aluminum	1750	4460	DP63-DP14	2770	15/15	22.5-26.6	8760	No	No
Arsenic	0.669	2.62	DP63-MW04	1.00	8/15	1.13-1.33	6.88	No	No
Barium	17.2	35.3	DP63-DP09	23.1	15/15	1.13-1.33	84.4	No	No
Calcium	80100	216000	DP63-DP17	163000	15/15	113-1770	250000	No	No[4]
Chromium	2.0	5.64	DP63-DP09	2.47	11/15	2.25-2.66	6.6	No	No
Cobalt	0.886	1.09	DP63-DP06	1.18	2/15	2.25-2.66	2.49	No	No
Copper	0.751	2.41	DP63-DP10	1.35	8/15	2.25-2.66	4.84	No	No
Cyanide	0.266	0.266	DP63-DP09	0.570	1/15	1.13-1.33	na	--	***Yes***
Iron	1340	4590	DP63-DP14	2400	15/15	22.5-26.6	6360	No	No
Lead	0.455	2.19	DP63-DP10	1.19	12/15	1.13-1.33	8.0	No	No
Magnesium	1180	2470	DP63-DP09	1620	15/15	113-133	14700	No	No[4]
Manganese	18.5	75.5	DP63-DP14	36.8	15/15	1.13-1.33	165	No	No
Nickel	1.14	4.65	DP63-DP08	1.94	9/15	2.25-2.66	5.61	No	No
Potassium	478	1410	DP63-DP18	838	15/15	564-666	2500	No	No[4]
Sodium	145	1610	DP63-DP17	753	15/15	113-133	5000	No	No[4]
Thallium	1.27	1.27	DP63-DP17	0.650	1/15	1.13-1.33	11.3	No	No
Vanadium	3.7	10.9	DP63-DP17	6.30	15/15	2.25-2.66	15.5	No	No
Zinc	6.38	19.1	DP63-DP18	8.69	15/15	1.13-1.33	20.2	No	No

Notes:

(1) Mean concentration includes one-half the detection limit for nondetections.

(2) Background values are upper tolerance limits taken from the Basewide Background Study (Radian 1993).

(3) The detected organic analyte is a common laboratory contaminants and may not be related to site activities.

(4) These analytes are essential nutrients.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg = Milligrams per kilogram

-- = Not applicable

Table C-5. Exposure Factors for Ecological Receptors Evaluated at DP-63, Holloman AFB

Measurement Endpoints	Class/Order	Feeding Guild	Body Weight (kg)	Daily Ingestion Rate for Food (kg WW/ kg BW-day)	Soil Ingestion Rate (kg DW/ kg BW-day)	Fraction of Diet Consisting of Food Item	Exposure Area [1]
Deer Mouse (*Peromyscus maniculatus*)	Mammalia/ Rodentia	Omnivorous mammal	0.0148 [2]	0.599 [3]	0.00144 [4]	0.55 terrestrial plants 0.34 terrestrial invertebrates [5]	100%
Mourning Dove (*Zenaida macroura*)	Aves/ Columbiformes	Herbivorous bird	0.15 [6]	0.349 [7]	0.00701 [8]	1.0 terrestrial plants (grains and seeds primarily) [9]	100%
Least Shrew (*Cryptotis parva*)	Mammalia/ Insectivora	Insectivorous mammal	0.004 [10]	0.62 [11]	0.0136 [12]	0.83 terrestrial invertebrates 0.17 terrestrial plants [12]	100%
Red-Tailed Hawk (*Buteo jamaicensis*)	Aves/ Falconiformes	Carnivorous bird	0.96 [2,13]	0.185 [7]	0.00995 [14]	0.94 small mammals 0.05 small birds [15]	100%

Notes:

(1) The exposure area is assumed to be equal to DP-63.
(2) EPA 1993 (as cited in NMED 2000a).
(3) Food ingestion rate generated using the following allometric equation for rodents: IR (g/day) = 0.621 $wt^{0.564}$ and then converted to kg WW/ kg DW-day (EPA 1993; Nagy 1987, as cited in NMED 2000a).
(4) Percent soil in diet reported for the white-footed mouse is used as a surrogate value (Beyer et al. 1994, as cited in NMED 2000a).
(5) Extrapolated from a study of the dietary composition of deer mice in a shortgrass prairie habitat in Colorado (Flake 1973, as cited in EPA 1993). As reported, the sum of dietary fractions do not equal 100%.
(6) The body weight for the northern bobwhite is used as a surrogate (EPA 1993, as cited in NMED 2000a).
(7) Food ingestion rate generated using the following allometric equation for all birds: IR (g/day) = 0.648 wt 0.651 and then converted to kg WW/ kg DW-day (EPA 1993; Nagy 1987, as cited in NMED 2000a).
(8) Percent soil in diet is assumed as 10.0 percent of diet based on range presented in Beyer et al. (1994) (as cited in NMED 2000a).
(9) NMED 2000a
(10) National Audubon Society 1995 (as cited in NMED 2000a)
(11) Allometric equations reported in EPA (1993) do not represent intake rates for shrews; therefore, measured field values are presented (as cited in NMED 2000a).
(12) Extrapolated from a study of the dietary composition of the short-tailed shrew in the eastern United States (Hamilton 1941, as cited in EPA 1993).
(13) The body weight reported for the northern harier is used as a surrogate (as cited in NMED 2000a).
(14) Percent soil in diet reported for the bald eagle is used as a surrogate value (Beyer et al. 1994, as cited in NMED 2000a).
(15) Extrapolated from study of the dietary composition of the red-tailed hawk in a foothills habitat in California (Fitch et al. 1946, as cited in EPA 1993).
AFB = Air Force Base
EPA = U. S. Environmental Protection Agency
g/day = Grams per day
IR = Ingestion rate
kg = Kilograms
kg DW/kg BW-day = Kilograms dry weight per kilograms body weight per day
kg WW/kg BW-day = Kilograms wet weight per kilograms body weight per day
NMED = New Mexico Environment Department
wt = Weight

Table C-6. Prey and Food Item Bioconcentration Factors for Soil at DP-63, Holloman AFB[1]

COPEC	Soil-to-Plant BCF (unitless)	Soil-to-Invertebrate BCF (unitless)	Soil-to-Deer Mouse BCF (unitless)	Food-to-Deer Mouse BCF (unitless)	Soil-to-Mourning Dove BCF (unitless)	Terrestrial Plant-to-Mourning Dove BCF (unitless)	Soil-to-Least Shrew BCF (unitless)	Food-to-Least Shrew BCF (unitless)
Organics								
Bis(2-ethylhexyl) phthalate	0.038	1309	5.80E-06	0.00242	2.23E-05	0.00111	0.00111	0.0025
Diethyl phthalate	1.45 (2)	7.53 (2)	1.07E-08 (2)	4.44E-06 (2)	4.16E-08 (2)	2.07E-06 (2)	1.01E-07 (2)	4.60E-06 (2)
Methylene chloride	7.3 (3)	0.75 (3)	6.43E-10 (3)	2.68E-07 (3)	2.51E-09 (3)	1.25E-07 (3)	6.07E-09 (3)	2.77E-07 (3)
Inorganics								
Barium	0.15	0.22	2.16E-07	0.000090	1.0 (4)	1.0 (4)	2.05E-06	0.000093
Cadmium	0.364	0.96	1.73E-07	0.000072	0.000743	0.037	1.64E-06	0.000074
Copper	0.4	0.04	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)
Cyanide	1.0 (4)	1.12	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)	1.0 (4)
Lead	0.045	0.03	4.32E-07	0.00018	1.0 (4)	1.0 (4)	4.09E-06	0.00019
Nickel	0.032	0.02	8.63E-06	0.0036	1.0 (4)	1.0 (4)	0.000082	0.0037
Zinc	1.20E-12	0.56	1.29E-07	0.000054	0.000061	0.0031	1.23E-06	0.000059

Notes:

(1) BCFs obtained from NMED 2000a.

(2) Derived based on methodology provided in NMED 2000a, and discussed in Section C.2.3.2 using log Kow for diethylphthalate (2.47), taken from Hazardous Substance Database (Accessed August 2002).

(3) Derived based on methodology provided in NMED 2000a, and discussed in Section C.2.3.2, using log Kow for methylene chloride (1.25), taken from Hazardous Substance Database (Accessed August 2002).

(4) A conservative value of 1.0 was used when literature-derived values were not available.

AFB = Air Force Base

BCF = Bioconcentration factor

COPEC = Chemical of potential ecological concern

NMED = New Mexico Environment Department

Table C-7. Estimate of Daily Dose of COPECs Ingested by the Deer Mouse Through Soil at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Plants[1] (mg/kg WW)	COPEC Concentration in Terrestrial Invertebrates[2] (mg/kg WW)	Percent of Diet Comprised of Terrestial Plants (unitless)	Percent of Diet Comprised of Terrestial Invertebrates (unitless)	Daily Dose of COPEC [3] (mg/kg BW-day)
Surface Soil (0-0.5 feet)						
Organics						
Bis(2-ethylhexyl)phthalate	0.400	0.0018	524	55%	34%	107
Diethylphthalate	1.60	0.278	12.0	55%	34%	2.55
Methylene chloride	0.0038	0.0033	0.0029	55%	34%	0.0017
Inorganics						
Barium	103	1.85	22.7	55%	34%	5.37
Cadmium	4.83	0.211	4.64	55%	34%	1.02
Copper	1330	63.8	53.2	55%	34%	33.8
Lead	759	4.10	22.8	55%	34%	7.08
Nickel	59.6	0.229	1.19	55%	34%	0.404
Zinc	1420	2.04E-10	795	55%	34%	164
Subsurface Soil (0.5-5.0 feet)						
Organics						
Diethylphthalate	1.20	0.209	9.04	55%	34%	1.91
Inorganics						
Cyanide	0.266	0.0319	0.298	55%	34%	0.0716

Notes:

(1) COPEC concentrations in plants are calculated by mulitplying the soil concentration by the appropriate soil-to-plant bioaccumulation factors in Table C-6 and a dry weight to wet weight conversion factor of 0.12.

(2) COPEC concentrations in invertebrates are calculated by mulitplying the soil concentration by the appropriate soil-to-invertebrate bioaccumulation factors in Table C-6.

(3) The daily COPEC dose is calculated by using Equation 9 found in Section C2.3.4 of the text and using the exposure factors found in Table C-5.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

mg/kg WW = Milligrams per kilogram water weight

Table C-8. Estimate of Daily Dose of COPECs Ingested by the Least Shrew Through Soil at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Plants[1] (mg/kg WW)	COPEC Concentration in Terrestrial Invertebrates [2] (mg/kg WW)	Percent of Diet Comprised of Terrestial Plants (unitless)	Percent of Diet Comprised of Terrestial Invertebrates (unitless)	Daily Dose of COPEC [3] (mg/kg BW-day)
Surface Soil (0-0.5 feet)						
Organics						
Bis(2-ethylhexyl)phthalate	0.400	0.0018	524	17%	83%	269
Diethylphthalate	1.60	0.278	12.0	17%	83%	6.25
Methylene chloride	0.0038	0.0033	0.0029	17%	83%	0.0019
Inorganics						
Barium	103	1.85	22.7	17%	83%	13.3
Cadmium	4.83	0.211	4.64	17%	83%	2.47
Copper	1330	63.8	53.2	17%	83%	52.2
Lead	759	4.10	22.8	17%	83%	22.5
Nickel	59.6	0.229	1.19	17%	83%	1.45
Zinc	1420	2.04E-10	795	17%	83%	429
Subsurface Soil (0.5-5.0 feet)						
Organics						
Diethylphthalate	1.20	0.209	9.04	17%	83%	4.69
Inorganics						
Cyanide	0.266	0.0319	0.298	17%	83%	0.160

Notes:

(1) COPEC concentrations in plants are calculated by mulitplying the soil concentration by the appropriate soil-to-plant bioaccumulation factors in Table C-6 and a dry weight to wet weight conversion factor of 0.12.

(2) COPEC concentrations in invertebrates are calculated by mulitplying the soil concentration by the appropriate soil-to-invertebrate bioaccumulation factors in Table C-6.

(3) The daily COPEC dose is calculated by using Equation 9 found in Section C2.3.4 of the text and using the exposure factors found in Table C-5.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

mg/kg WW = Milligrams per kilogram wet weight

Table C-9. Estimate of Daily Dose of COPECs Ingested by Mourning Dove Through Soil at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Plants[1] (mg/kg WW)	COPEC Concentration in Terrestrial Invertebrates[2] (mg/kg WW)	Daily Dose of COPEC [3] (mg/kg BW-day)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexyl)phthalate	0.400	0.0018	100%	0.0034
Diethylphthalate	1.60	0.278	100%	0.108
Methylene chloride	0.0038	0.0033	100%	0.0012
Inorganics				
Barium	103	1.85	100%	1.37
Cadmium	4.83	0.211	100%	0.107
Copper	1330	63.8	100%	31.6
Lead	759	4.10	100%	6.75
Nickel	59.6	0.229	100%	0.498
Zinc	1420	2.04E-10	100%	10.0

Notes:

(1) COPEC concentrations in plants are calculated by mulitplying the soil concentration by the appropriate soil-to-plant bioaccumulation factors in Table C-6 and a dry weight to wet weight conversion factor of 0.12.

(2) COPEC concentrations in invertebrates are calculated by mulitplying the soil concentration by the appropriate soil-to-invertebrate bioaccumulation factors in Table C-6.

(3) The daily COPEC dose is calculated by using Equation 10 found in Section C2.3.4 of the text and using the exposure factors found in Table C-5.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

mg/kg WW = Milligrams per kilogram wet weight

Table C-10. Estimate of Daily Dose of COPECs Ingested by the Red-Tailed Hawk Through Soil at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Small Mammals[1,2] (mg/kg WW)	COPEC Concentration in Birds[3] (mg/kg WW)	Percent of Diet Comprised of Small Mammals (unitless)	Percent of Diet Comprised of Birds (unitless)	Daily Dose of COPEC [4] (mg/kg BW-day)
Surface Soil (0-0.5 feet)						
Organics						
Bis(2-ethylhexyl)phthalate	0.400	0.431	0.000011	94%	5%	0.0789
Diethylphthalate	1.60	0.000019	0.00000064	94%	5%	0.0159
Methylene chloride	0.0038	7.56E-10	4.27E-10	94%	5%	0.000038
Inorganics						
Barium	103	0.00081	105	94%	5%	1.99
Cadmium	4.83	0.00012	0.0114	94%	5%	0.0482
Copper	1330	1383	1394	94%	5%	267
Lead	759	0.0021	763	94%	5%	14.6
Nickel	59.6	0.0024	59.8	94%	5%	1.15
Zinc	1420	0.0148	0.0870	94%	5%	14.1

Notes:

(1) The COPEC concentration in small mammals is calculated using Equation 5 described in Section C.2.3.4 in the text.

(2) The small mammal in the red-tailed hawk diet is assumed to be from deer mice.

(3) The COPEC concentration in birds is calculated using Equation 8 described in Section C.2.3.4 in the text.

(4) The daily COPEC dose is calculated by using Equation 11 found in Section C.2.3.4 of the text and using the exposure factors found in Table C-5.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

mg/kg WW = Milligrams per kilogram wet weight

Table C-11. Toxicity Study Information and Toxicity Reference Values for Terrestrial Plants

COPEC	Duration and Endpoint	Test Organism	Concentration (mg/kg)	Uncertainty Factor[1]	TRV (mg/kg)	Reference and Notes[2]
Organics						
Bis(2-ethylhexyl)phthalate	Soil NOEC	Corn, Fescue, Soybean	200	1	200	Overcash et al. 1982 [3,4]
Diethylphthalate	Soil LOEC 14 days	Lettuce	134	0.1	13.4	Hulzebos et al. 1993[3]
Methylene chloride	NA	NA	NA	NA	NA	NA
Inorganics						
Barium	Chronic LOAEL (shoot growth)	Barley	500	0.01	5	Chaudry et al. 1977 [5]
Cadmium	Chonic LOAEL (seedling growth)	Spruce	2	0.1	0.2	Burton et al. 1984 [5]
Copper	Chronic LOAEL	Barley	10	0.1	1	Toivonem and Hofstra 1979
Cyanide	NA	NA	NA	NA	NA	NA
Lead	Chronic LOAEL	Senna	46	0.1	4.6	Krishnayya and Bedi 1986
Nickel	Chronic NOAEL	Senna	46	0.1	4.6	Krishnayya and Bedi 1986
Zinc	Chronic LOAEL	Spring barley	9	0.1	0.9	Davis, Beckett, and Wollan 1978

Notes:

(1) Uncertainty factors are used to extrapolate a chronic NOAEL value when one is not available in the toxicological literature. Uncertainty factors are designed to be protective by preventing underestimation of the chronic NOAEL value. Uncertainty factors were applied using methodology in Section 3.2.2.2 of NMED guidance (2000a).

(2) As cited in NMED guidance (2000a) unless otherwise noted.

(3) As cited in Efroymson et al. 1997b.

(4) Toxicity value derived for di-n-butyl phthalate was used as a surrogate because it is similar in chemical structure.

(5) As cited in Efroymson et al. 1997b. Confidence in this benchmark is low because it is based on one study. Root length was reduced 32 percent by 100 mg/kg xylene, the lowest concentration tested.

(6) Toxicity information for hexavalent chromium was conservatively used.

COPEC = Chemical of potential ecological concern

EC50 = Effective concentration for 50 percent of the test organisms

LOAEL = Lowest-observed-adverse-effects level

LOEC = Lowest-observed-effects concentration

mg/kg = Milligrams per kilogram

NA = Not available

Table C-11. Toxicity Study Information and Toxicity Reference Values for Terrestrial Plants

NMED = New Mexico Environment Department

NOAEL = No-observed-adverse-effects level

NOEC = No-observed-effects concentration

TRV = Toxicity reference value

Table C-12. Toxicity Study Information and Toxicity Reference Values for Terrestrial Invertebrates

COPEC	Duration and Endpoint	Test Species	Concentration	Uncertainty Factor[1]	TRV (mg/kg DW)	Reference and Notes [2]
Organics						
Bis(2-ethylhexylphthalate)	NA	NA	NA	NA	NA	NA
Diethylphthalate	Soil LOEC	*Eudrilus eugeniae*	2000	0.1	200	Neuhauser et al. 1986[3,4]
Methylene chloride	NA	NA	NA	NA	NA	NA
Inorganics						
Barium	NA	NA	NA	NA	NA	NA
Cadmium	Chronic (4 month) NOAEL cocoon production	Earthworm (*Dendrobaena rubida*)	10	NA	10	Bengtsson et al. 1986
Copper	Chronic (56 day) NOAEL cocoon production	Earthworm (*Dendrobaena rubida*)	100	NA	100	Bengtsson et al. 1986
Cyanide	NA	NA	NA	NA	NA	NA
Lead	Chronic (4 month) NOAEL cocoon production	Earthworm (*Dendrobaena rubida*)	100	NA	100	Bengtsson et al. 1986
Nickel	Chronic (20 week) NOAEL cocoon production	Earthworm (*Eisenia foetida*)	100	NA	100	Malecki et al. 1982
Zinc	Chronic (56 day) NOEC cocoon production	Earthworm (*Eisenia foetida*)	199	NA	199	Spurgeon et al. 1994

Notes:

(1) Uncertainty factors are used to extrapolate a chronic NOAEL value when one is not available in the toxicological literature. Uncertainty factors are designed to be protective by preventing underestimation of the chronic NOAEL value. Uncertainty factors were applied using methodology in Section 3.2.2.2 of NMED guidance (2000a).

(2) As cited in NMED guidance (2000a) unless otherwise noted.

(3) Toxicity study information and toxicological benchmark values developed for dimethyl phthalate was used as surrogates.

(4) As cited in Efroymson 1997a.

COPEC = Chemical of potential ecological concern

mg/kg DW = Milligrams per kilogram dry weight

LOEC = Lowest-observed-effects concentration

NA = Not available

NMED = New Mexico Environment Department

NOAEL = No-observed-adverse-effects level

NOEC = No-observed-effect-level concentration

TRV = Toxicity reference value

Table C-13. Toxicity Study Information and Toxicity Reference Values for Upper Trophic-Level Assessment Endpoints [1]

COPEC	Duration and Endpoint	Test Organism	Dose (mg/kg BW-day)	Uncertainty Factor[2]	TRV (mg/kg BW day)	Reference and Notes[1]
Deer Mouse						
Organics						
Bis(2-ethylhexylphthalate)	Chronic (105 days) NOAEL	Rat	60,000	1.0	60,000	Carpenter et al. 1953
Diethylphthalate	Chronic (105 days) NOAEL	Mouse	4,583	1.0	4,583	Sample et al. 1996
Methylene chloride	Chronic (2 year) NOAEL	Rat (endpoint species is white footed mouse)	NA	NA	11.7	NCA 1982 [3]
Inorganics						
Barium	Chronic (16 months) NOAEL	Rat	0.51	1.0	0.51	Perry et al. 1983
Cadmium	Chronic (>150 days) LOAEL (reproduction)	Mouse	2.52	0.01	0.0252	Schroeder and Mitchner 1971
Copper	Chronic (365 days) NOAEL	Mink	12	1.0	12	Aulerich et al. 1982
Cyanide	Chronic (2 years) NOAEL	Rat	24	1.0	24	Howard and Hanzal 1955
Lead	Chronic (>150 days) LOAEL (mortality)	Mouse	3.75	0.01	0.0375	Schroeder and Mitchner 1971
Nickel	Chronic (2 years) NOAEL	Rat	50	1.0	50	Ambrose et al. 1976
Zinc	Subchronic (13 weeks) NOAEL	Mouse	104	0.1	10.4	Maita et al. 1981
Mourning Dove						
Organics						
Bis(2-ethylhexylphthalate)	Subchronic (4 weeks) NOAEL	Ringed dove	1,110	0.1	111	Peakall 1974
Diethylphthalate	Chronic (4 weeks) LOAEL	Ringed dove	10	0.1	1.0	Peakall 1974 [5]
Methylene chloride	Acute (14 days) NOEL	Northern bobwhite	114	0.01	11	OPP 2002
Inorganics						
Barium	Subchronic (4 weeks) NOAEL	One-day-old chick	208.26	0.1	20.8	Johnson et al. 1960
Cadmium	Chronic (90 days) NOAEL	Mallard drake	1.45	NA	1.45	White and Finley 1978
Copper	Chronic (10 weeks) NOAEL (growth)	One-day old chicks	46.97	1.0	47	Mehring et al. 1960
Lead	Acute (7 days) LOAEL (altered enzyme levels)	Ringed turtle dove	25	0.001	0.025	Kendall and Scanlon 1982
Nickel	Subchronic (5 days) NOAEL	Coturnix quail	650	0.1	65	Hill and Camardese 1986
Zinc	Chronic (44 weeks) NOAEL	Leghorn hen and New Hampshire rooster	130.9	1.0	131	Stahl et al. 1990
Least Shrew						
Organics						
Bis(2-ethylhexylphthalate)	Chronic (105 days) NOAEL	Rat	60,000	1.0	60,000	Carpenter et at. 1953
Diethylphthalate	Chronic (105 days) NOAEL	Mouse	4,583	1.0	4,583	Sample et al. 1996
Methylene chloride	Chronic (2 year) NOAEL	Rat (endpoint species is short tailed shrew)	NA	NA	12.9	NCA 1982 [3]
Inorganics						
Barium	Chronic (16 months) NOAEL	Rat	0.51	1.0	0.51	Perry et al. 1983
Cadmium	Chronic (>150 days) LOAEL (reproduction)	Mouse	2.52	0.01	0.0252	Schroeder and Mitchner 1971

Table C-13. Toxicity Study Information and Toxicity Reference Values for Upper Trophic-Level Assessment Endpoints [1]

COPEC	Duration and Endpoint	Test Organism	Dose (mg/kg BW-day)	Uncertainty Factor[2]	TRV (mg/kg BW day)	Reference and Notes[1]
Copper	Chronic (365 days) NOAEL	Mink	12	1.0	12	Aulerich et al. 1982
Cyanide	Chronic (2 years) NOAEL	Rat	24	1.0	24	Howard and Hanzal 1955
Lead	Chronic (>150 days) LOAEL (mortality)	Mouse	3.75	0.01	0.0375	Schroeder and Mitchner 1971
Nickel	Chronic (2 years) NOAEL	Rat	50	1.0	50	Ambrose et al. 1976
Zinc	Subchronic (13 weeks) NOAEL	Mouse	104	0.1	10.4	Maita et al. 1981
[redacted]						
Organics						
Bis(2-ethylhexylphthalate)	Subchronic (4 weeks) NOAEL	Ring dove	1,110	0.1	111	Peakall 1974
Diethylphthalate	Chronic (4 weeks) LOAEL	Ringed dove	10	0.1	1.0	Peakall 1974 [5]
Methylene chloride	Acute (14 days) NOEL	Northern bobwhite	114	0.01	11	OPP 2002
Inorganics						
Barium	Subchronic (4 weeks) NOAEL	One-day-old chick	208.3	0.1	20.8	Johnson et al. 1960
Cadmium	Chronic (90 days) NOAEL	Mallard drake	1.45	NA	1.45	White and Finley 1978
Copper	Chronic (10 weeks) NOAEL (growth)	One-day old chicks	46.97	1.0	47	Mehring et al. 1960
Lead	Acute (7 days) LOAEL (altered enzyme levels)	Ringed turtle dove	25	0.001	0.025	Kendall and Scanlon 1982
Nickel	Subchronic (5 days) NOAEL	Coturnix quail	650	0.1	65	Hill and Camardese 1986
Zinc	Chronic (44 weeks) NOAEL	Leghorn hen and New Hampshire rooster	130.9	1.0	131	Stahl et al. 1990

Notes:
(1) All references found in NMED 2000a unless otherwise noted.
(2) Uncertainty factors are used to extrapolate a chronic NOAEL value when one is not available in the toxicological literature. Uncertainty factors are designed to be protective by preventing underestimation of the chronic NOAEL value.
(3) As cited in Sample et al. 1996.
(4) Toxicity value derived for hexavalent chromium was used as a surrogate.
BW = Body weight
COPEC = Chemical of potential ecological concern
LOAEL = Lowest-observed-adverse-effects level
LOEL = Lowest-observed-effects level
mg/kg BW-day = Milligrams per kilograms body weight per day
NA = Not available
NCA = National Coffee Association
NOAEL = No-observed-adverse-effects level
NOEL = No-observed-effects level
OPP = Office of Pesticide Program
TRV = Toxicity reference value
> = Greater than

Table C-14. Summary of Risks (ESQs) to Ecological Receptors at DP-63, Holloman AFB [1]

COPEC	Plants	Terrestrial Invertebrates	Deer Mouse	Mourning Dove	Least Shrew	Red-Tailed Hawk
		Surface Soil				
Organics						
Bis(2-ethylhexylphthalate)	<1	--	<1	<1	<1	<1
Diethylphthalate	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	<1	<1	<1	<1
Inorganics						
Barium	**21**	--	**11**	<1	**26**	<1
Cadmium	**24**	<1	**41**	<1	**98**	<1
Copper	**1300**	**13**	**2.8**	<1	**4.4**	**5.7**
Lead	**170**	**7.6**	**190**	**270**	**600**	**580**
Nickel	**13**	<1	<1	<1	<1	<1
Zinc	**1600**	**7.1**	**16**	<1	**41**	<1
		Subsurface Soil				
Organics						
Diethylphthalate	<1	<1	<1	--	<1	--
Inorganics						
Cyanide	<1	--	<1	--	<1	--

Notes:

(1) Refer to Tables C-15 through C-20 for risk calculations. Risk estimates are presented in two significant figures.

Any ESQ that excededs 1.0 is bolded.

Risks are based on maximum soil concentrations.

AFB = Air Force Base

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

-- = Not applicable, risk not calculated because toxicity data was not available.

< = Less than

Table C-15. Screening-Level Risk Calculations for Terrestrial Plants at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Plants[1] (mg/kg)	TRV[2] (mg/kg)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	0.400	200	0.0020
Diethylphthalate	1.60	1.60	13.4	0.12
Methylene chloride	0.0038	0.0038	NA	NC
Inorganics				
Barium	103	103	5.00	21
Cadmium	4.83	4.83	0.20	24
Copper	1330	1330	1.00	1300
Lead	759	759	4.60	170
Nickel	59.6	59.6	4.60	13
Zinc	1420	1420	0.900	1600
			CESQ =	**3100**
Subsurface Soil (0.5-5.0 feet)				
Organics				
Diethylphthalate	1.20	1.20	13.4	0.090
Inorganics				
Cyanide	0.266	0.266	NA	NC
			CESQ =	**0.090**

Notes:

(1) COPEC exposure is conservatvely assummed to be equal to the maximum COPEC concentration in soil.

(2) TRVs are found in Table C-11.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

mg/kg = Milligrams per kilogram

mg/kg DW = Milligrams per kilogram dry weight

NA = Not available

TRV = Toxicity reference value

NC = Risk not calculated because toxicity data were not available.

Table C-16. Screening-Level Risk Calculations for Terrestrial Invertebrates at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	COPEC Concentration in Terrestrial Plants[1] (mg/kg)	TRV[2] (mg/kg)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	0.400	NA	NC
Diethylphthalate	1.60	1.60	200	0.0080
Methylene chloride	0.0038	0.0038	NA	NC
Inorganics				
Barium	103	103	NA	NC
Cadmium	4.83	4.83	10	0.48
Copper	1330	1330	100	13
Lead	759	759	100	7.6
Nickel	59.6	59.6	100	0.60
Zinc	1420	1420	199	7.1
			CESQ =	**29**
Subsurface Soil (0.5-5.0 feet)				
Organics				
Diethylphthalate	1.20	1.20	200	0.006
Inorganics				
Cyanide	0.266	0.266	NA	NC
			CESQ =	**0.006**

Notes:

(1) COPEC exposure is conservatvely assummed to be equal to the maximum COPEC concentration in soil.

(2) TRVs are found in Table C-12.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

NA = Not available

mg/kg = Milligrams per kilogram

mg/kg DW = Milligrams per kilogram dry weight

TRV = Toxicity reference value

NC = Risk not calculated because toxicity data were not available.

Table C-17. Screening-Level Risk Calculations for the Deer Mouse at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	Daily Dose of COPEC Ingested[1] (mg/kg BW-day)	TRV[2] (mg/kg BW-day)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	107	60000	0.0018
Diethylphthalate	1.60	2.55	4583	0.00056
Methylene chloride	0.0038	0.0017	11.7	0.00014
Inorganics				
Barium	103	5.37	0.510	11
Cadmium	4.83	1.02	0.0252	41
Copper	1330	33.8	12.0	2.8
Lead	759	7.08	0.0375	190
Nickel	59.6	0.404	50.0	0.0081
Zinc	1420	164	10.4	16
			CESQ =	**260**
Subsurface Soil (0.5-5.0 feet)				
Organics				
Diethylphthalate	1.20	1.91	4583	0.00042
Inorganics				
Cyanide	0.266	0.0716	24	0.0030
			CESQ =	**0.0034**

Notes:

(1) The daily COPEC dose is calculated in Table C-7.

(2) TRVs are found in Table C-13.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

mg/kg = Milligrams per kilogram

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

TRV = Toxicity reference value

Table C-18. Screening-Level Risk Calculations for the Mourning Dove at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	Daily Dose of COPEC Ingested[1] (mg/kg BW-day)	TRV[2] (mg/kg BW-day)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	0.0034	111	3.1E-05
Diethylphthalate	1.60	0.108	1.0	0.11
Methylene chloride	0.0038	0.0012	11	0.00011
Inorganics				
Barium	103	1.37	20.8	0.066
Cadmium	4.83	0.107	1.45	0.074
Copper	1330	31.6	47	0.67
Lead	759	6.75	0.025	270
Nickel	59.6	0.498	65	0.0077
Zinc	1420	9.95	131	0.076
			CESQ =	**270**

Notes:

(1) The daily COPEC dose is calculated in Table C-9.

(2) TRVs are found in Table C-13.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

mg/kg = Milligrams per kilogram

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

TRV = Toxicity reference value

Table C-19. Screening-Level Risk Calculations for the Least Shrew at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	Daily Dose of COPEC Ingested[1] (mg/kg BW-day)	TRV[2] (mg/kg BW-day)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	269	60000	0.0045
Diethylphthalate	1.60	6.25	4583	0.0014
Methylene chloride	0.0038	0.0019	12.9	0.00015
Inorganics				
Barium	103	13.3	0.510	26
Cadmium	4.83	2.47	0.0252	98
Copper	1330	52.2	12.0	4.4
Lead	759	22.5	0.0375	600
Nickel	59.6	1.45	50.0	0.029
Zinc	1420	429	10.4	41
			CESQ =	**770**
Subsurface Soil (0.5-5.0 feet)				
Organics				
Diethylphthalate	1.20	4.69	4583	0.0010
Inorganics				
Cyanide	0.266	0.160	24	0.0067
			CESQ =	**0.0077**

Notes:

(1) The daily COPEC dose is calculated in Table C-8.

(2) TRVs are found in Table C-13.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

mg/kg = Milligrams per kilogram

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

TRV = Toxicity reference value

Table C-20. Screening-Level Risk Calculations for the Red-Tailed Hawk at DP-63, Holloman AFB

COPEC	COPEC Concentration in Soil (mg/kg DW)	Daily Dose of COPEC Ingested[1] (mg/kg BW-day)	TRV[2] (mg/kg BW-day)	ESQ (unitless)
Surface Soil (0-0.5 feet)				
Organics				
Bis(2-ethylhexylphthalate)	0.400	0.0789	111	0.00071
Diethylphthalate	1.60	0.0159	1.0	0.016
Methylene chloride	0.0038	3.78E-05	11	3.4E-06
Inorganics				
Barium	103	1.99	20.8	0.096
Cadmium	4.83	0.0482	1.45	0.033
Copper	1330	267	47	5.7
Lead	759	14.6	0.025	580
Nickel	59.6	1.15	65	0.018
Zinc	1420	14.1	131	0.11
			CESQ =	**590**

Notes:

(1) The daily COPEC dose is calculated in Table C-10.

(2) TRVs are found in Table C-13.

AFB = Air Force Base

CESQ = Cumulative estimated screening quotient

COPEC = Chemical of potential ecological concern

ESQ = Estimated screening quotient

mg/kg = Milligrams per kilogram

mg/kg BW-day = Milligrams per kilogram body weight per day

mg/kg DW = Milligrams per kilogram dry weight

TRV = Toxicity reference value

Table C-21. Summary of Uncertainties in the SLERA

Uncertainty Element	Effect on Risk Estimate: Potential for Overestimation	Potential for Underestimation	Potential for Over- or Underestimation
Ecological Receptors			
Selection of receptors		Low	
Environmental Data			
Use of maximum values as exposure point concentrations for soil	High		
Elimination of chemicals from quantitative analysis based on background levels		Low	
Fate and Transport Parameters			
Use of literature-based BCFs		Moderate	
Assumption on the 100% bioavailability of COPECs in the environmental media and diet	High		
Toxicity Information			
Use of literature-based toxicity values	Moderate		
Use of surrogate toxicity values			Moderate
Exposure Assumptions			
Assumption of area use factor	High		

Notes:
COPEC = Chemical of potential ecological concern
BCF = Bioconcentration factor
SLERA = Screening-Level Ecological Risk Assessment

FIGURES

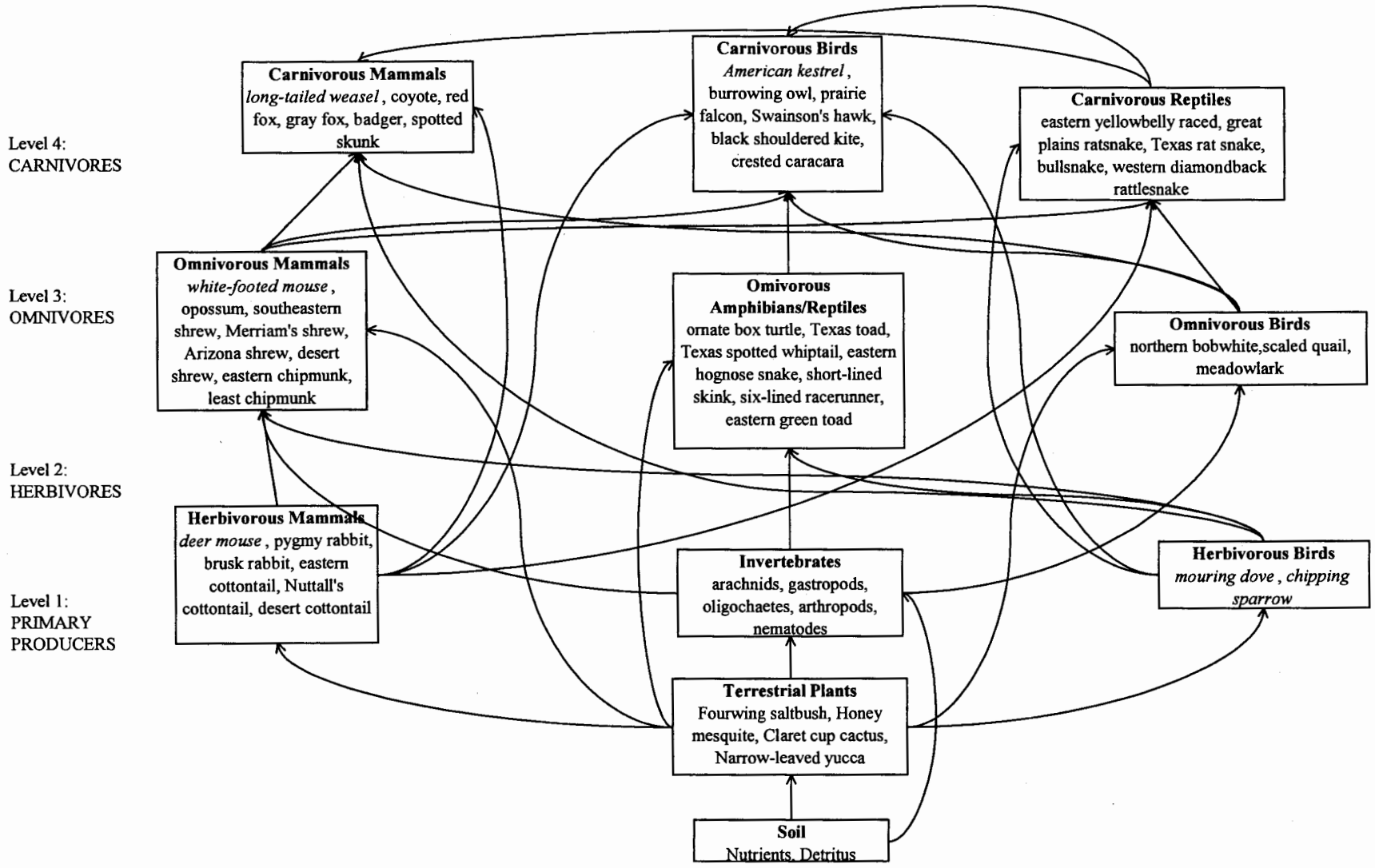


Figure C-1. Food Web for Shrubland Habitat at DP-63, Holloman AFB[1]

Notes:
(1) Adapted from figure in Appendix B, NMED 2000a
AFB = Air Force Base

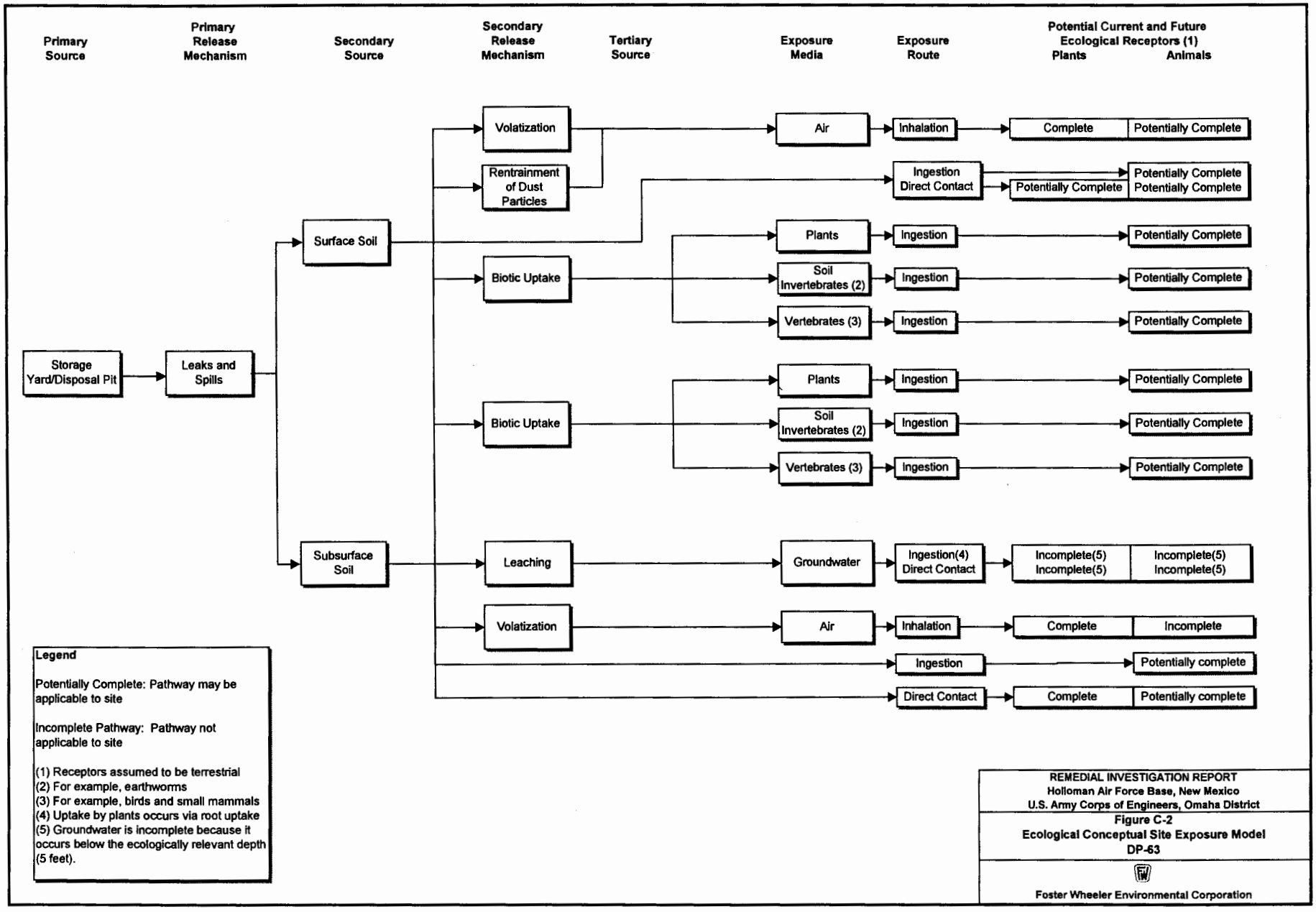

Primary Source
Primary Release Mechanism
Secondary Source
Secondary Release Mechanism
Tertiary Source
Exposure Media
Exposure Route
Potential Current and Future Ecological Receptors (1)
Plants
Animals
Storage Yard/Disposal Pit
Leaks and Spills
Surface Soil
Subsurface Soil
Volatization
Rentrainment of Dust Particles
Biotic Uptake
Biotic Uptake
Leaching
Volatization
Air
Inhalation
Complete
Potentially Complete
Ingestion
Direct Contact
Potentially Complete
Potentially Complete
Potentially Complete
Plants
Soil Invertebrates (2)
Vertebrates (3)
Ingestion
Potentially Complete
Plants
Soil Invertebrates (2)
Vertebrates (3)
Groundwater
Ingestion(4)
Direct Contact
Incomplete(5)
Incomplete(5)
Incomplete(5)
Incomplete(5)
Incomplete
Direct Contact
Legend
Potentially Complete: Pathway may be applicable to site
Incomplete Pathway: Pathway not applicable to site
(1) Receptors assumed to be terrestrial
(2) For example, earthworms
(3) For example, birds and small mammals
(4) Uptake by plants occurs via root uptake
(5) Groundwater is incomplete because it occurs below the ecologically relevant depth (5 feet).
REMEDIAL INVESTIGATION REPORT
Holloman Air Force Base, New Mexico
U.S. Army Corps of Engineers, Omaha District
Figure C-2
Ecological Conceptual Site Exposure Model
DP-63
Foster Wheeler Environmental Corporation

Figure 2.xls

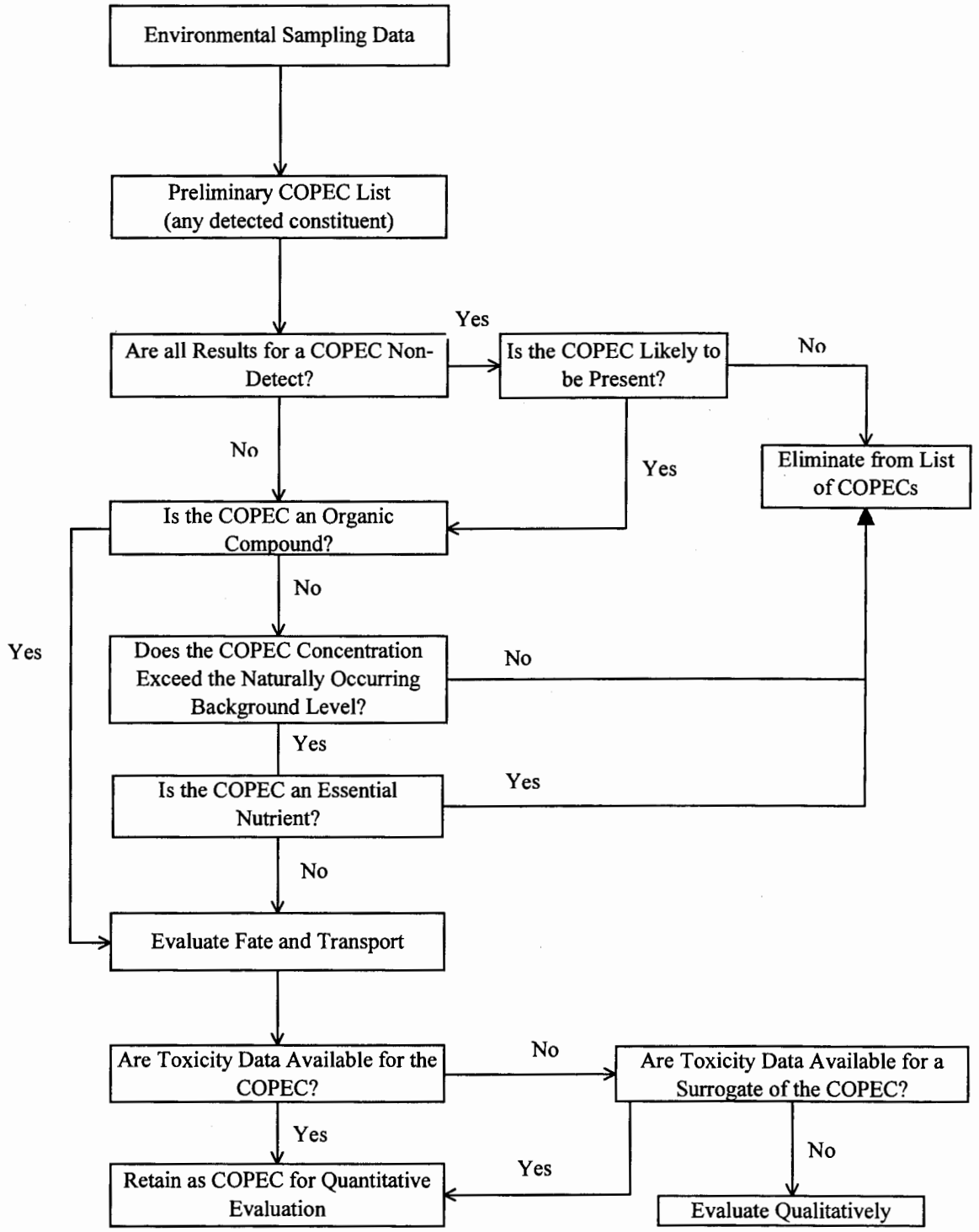


Figure C-3. COPEC Selection Process for DP-63, Holloman AFB[1]

(1) = Figure taken from NMED 2000a
AFB = Air Force Base
COPEC = contaminant of potential ecological concern

ATTACHMENT 1

Ecological Checklist

Checklist for Ecological Assessment/Sampling

I. SITE DESCRIPTION

1. Site Name: DP-63 (Inside Fence line) (East + West Areas)

   Location: Holloman AFB

   County: Otero City: Alamogordo State: NM

2. Latitude: ~~N 682972.252~~ AP 3252 38.66225 N Longitude: ~~E 1693241.457~~ AP 1060440.94212

3. What is the approximate area of the site? 2 acres

4. Is this the first site visit? ☒ yes ☐ no If no, attach trip report of previous site visit(s), if available.

   Date(s) of previous site visit(s): _____.

5. Please attach to the checklist USGS topographic map(s) of the site, if available.

   N/A

6. Are aerial or other site photographs available? ☐ yes ☒ no If yes, please attach any available photo(s) to the site map at the conclusion of this section.

7. The land use on the site is:

____% Urban

____% Rural

____% Residential

100 % Industrial (☒ light ☐ heavy)

____% Agricultural

(Crops: _____ *)*

____% Recreational

(Describe; note if it is a park, etc.)

_____

_____

____% Undisturbed

____% Other

The area surrounding the site is:
0.25 mile radius

____% Urban

75 % Rural

____% Residential

25 % Industrial (☒ light ☐ heavy)

____% Agricultural

(Crops: _____ *)*

____% Recreational

(Describe; note if it is a park, etc.)

_____

_____

____% Undisturbed

____% Other

8. Has any movement of soil taken place at the site? ☒ yes ☐ no. If yes, please identify the most likely cause of this disturbance:

____ Agricultural Use ____ Heavy Equipment ____ Mining

____ Natural Events ____ Erosion X Other

Please describe:
appears to have been a old munition burial Area.

9. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State monuments, wetlands, prairie potholes? *Remember, flood plains and wetlands are not always obvious; do not answer "no" without confirming information.*

No

Please provide the source(s) of information used to identify these sensitive areas, and indicate their general location on the site map.

N/A

10. What type of facility is located at the site?

☐ Chemical ☐ Manufacturing ☐ Mixing ☒ Waste disposal (Munitions burial)

☐ Other (specify)_____

11. What are the suspected contaminants of concern at the site? If known, what are the maximum concentration levels?
Explosives, SVOCs, VOCs, metals

12. Check any potential routes of off-site migration of contaminants observed at the site:

☐ Swales ☐ Depressions ☒ Drainage ditches

☐ Runoff ☐ Windblown particulates ☐ Vehicular traffic

☐ Other (specify)_____

13. If known, what is the approximate depth to the water table? ~~N/A~~ NR 50 ft

14. Is the direction of surface runoff apparent from site observations? ☒ yes ☐ no If yes, to which of the following does the surface runoff discharge? Indicate all that apply.

☒ Surface water ☐ Groundwater ☐ Sewer ☐ Collection impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? ☐ yes ☒ no

16. Is there a waterbody anywhere on or in the vicinity of the site? If yes, also complete Section III: Aquatic Habitat Checklist -- Non-Flowing Systems and/or Section IV: Aquatic Habitat Checklist -- Flowing Systems.

☐ yes (approx. distance_____) ☒ no

17. Is there evidence of flooding? ☐ yes ☒ no *Wetlands and flood plains are not always obvious; do not answer "no" without confirming information.* If yes, complete Section V: Wetland Habitat Checklist.

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying fauna. [Use a blank sheet if additional space is needed for text.]

unable to identify - Area is mowed & very little growth is available.
looks like bunchgrass / buffalo grass.

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site? ☐ yes ☒ no *If yes, you are required to verify this information with the U.S. Fish and Wildlife Service.* If species' identities are known, please list them next.

20. Record weather conditions at the time this checklist was prepared:

DATE: 6/12/02

93° Temperature (°C/°F) _____ Normal daily high temperature

None Wind (direction/speed) None Precipitation (rain, snow)

0% Cloud cover

IA. SUMMARY OF OBSERVATIONS AND SITE SETTING

Site is within completely fenced off area. Site is suspected of burial of munitions. Vegetation in the area is very sparse and much of there is many patches of exposed soil across the site. Only grass was identified as occurring. No signs of terrestrial wildlife were identified. There is a subtle outline of area suspected for burial. The distressed vegetation in the area marks the boundaries.

Completed by Alex Pillay Affiliation Foster Wheeler

Additional Preparers

Site Manager

Date 6/12/02

II. TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

1. Are there any wooded areas at the site? ☐ yes ☒ no If no, go to Section IIB: Shrub/Scrub.

2. What percentage or area of the site is wooded? (_____% _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.

3. What is the dominant type of vegetation in the wooded area? (Circle one: Evergreen/Deciduous/ Mixed) Provide a photograph, if available.

   Dominant plant, if known:_____

4. What is the predominant size of the trees at the site? Use diameter at breast height.

   ☐ 0-6 in. ☐ 6-12 in. ☐ > 12 in.

5. Specify type of understory present, if known. Provide a photograph, if available.

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? ☐ yes ☒ no If no, go to Section IIC: Open Field.

2. What percentage of the site is covered by scrub/shrub vegetation? (_____% _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.

3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.

4. What is the approximate average height of the scrub/shrub vegetation?

   ☐ 0-2 ft. ☐ 2-5 ft. ☐ > 5 ft.

5. Based on site observations, how dense is the scrub/shrub vegetation?

☐ Dense ☐ Patchy ☐ Sparse

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? ☒ yes ☐ no If yes, please indicate the type below:

☐ Prairie/plains ☐ Savannah ☒ Old field ☐ Other (specify)_____

2. What percentage of the site is open field? (~~95~~ 100% _____ acres). Indicate the open fields on the site map.

3. What is/are the dominant plant(s)? Provide a photograph, if available.
Difficult to identify - area is mowed and vegetation is extremely sparse

4. What is the approximate average height of the dominant plant? 2 in.

5. Describe the vegetation cover: ☐ Dense ☒ Sparse ☐ Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? ☐ yes ☒ no
If yes, identify and describe them below.

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.

N/A

3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?

No identification of signs were noticed @ site.

4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

None

Checklist for Ecological Assessment/Sampling

I. SITE DESCRIPTION

1. Site Name: Disposal Pit-63 (DP-63) - (outside fence to north)

   Location: Holloman Air Force Base

   County: OTERO City: Alamagordo State: NM

2. Latitude: 325238.66225 N Longitude: 1060440.94212

3. What is the approximate area of the site? 1 acre

4. Is this the first site visit? ☒ yes ☐ no If no, attach trip report of previous site visit(s), if available.

   Date(s) of previous site visit(s): _____.

5. Please attach to the checklist USGS topographic map(s) of the site, if available.

   N/A

6. Are aerial or other site photographs available? ☒ yes ☐ no If yes, please attach any available photo(s) to the site map at the conclusion of this section.

   See comments for descriptions

7. The land use on the site is:

____% Urban

100% Rural

____% Residential

____% Industrial (☐ light ☐ heavy)

____% Agricultural

(Crops:_____)

____% Recreational

(Describe; note if it is a park, etc.)

_____

_____

____% Undisturbed

____% Other

The area surrounding the site is:
0.5 mile radius

____% Urban

50 % Rural

____% Residential

50 % Industrial (☒ light ☐ heavy)

____% Agricultural

(Crops:_____)

____% Recreational

(Describe; note if it is a park, etc.)

_____

_____

____% Undisturbed

____% Other

8. Has any movement of soil taken place at the site? ☒ yes ☐ no. If yes, please identify the most likely cause of this disturbance:

____ Agricultural Use ___X___ Heavy Equipment ____ Mining

____ Natural Events ____ Erosion ___X___ Other

Please describe:

Site is suspected disposal pit for munitions. There is a trench in a circular area that appears to have been either mined or heavily trafficked on.

9. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State monuments, wetlands, prairie potholes? *Remember, flood plains and wetlands are not always obvious; do not answer "no" without confirming information.*

NO

Please provide the source(s) of information used to identify these sensitive areas, and indicate their general location on the site map.

N/A

10. What type of facility is located at the site?

☐ Chemical ☐ Manufacturing ☐ Mixing ☒ Waste disposal (munitions)

☐ Other (specify)_____

11. What are the suspected contaminants of concern at the site? If known, what are the maximum concentration levels?

Explosives, SVOCs, VOCs

12. Check any potential routes of off-site migration of contaminants observed at the site:

☐ Swales ☐ Depressions ☐ Drainage ditches

☐ Runoff ☐ Windblown particulates ☐ Vehicular traffic

☒ Other (specify) groundwater?

13. If known, what is the approximate depth to the water table? 50 ft.

14. Is the direction of surface runoff apparent from site observations? ☐ yes ☒ no If yes, to which of the following does the surface runoff discharge? Indicate all that apply.

☐ Surface water ☐ Groundwater ☐ Sewer ☐ Collection impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? ☐ yes ☒ no

16. Is there a waterbody anywhere on or in the vicinity of the site? If yes, also complete Section III: Aquatic Habitat Checklist -- Non-Flowing Systems and/or Section IV: Aquatic Habitat Checklist -- Flowing Systems.

☐ yes (approx. distance_____) ☒ no

17. Is there evidence of flooding? ☐ yes ☒ no *Wetlands and flood plains are not always obvious; do not answer "no" without confirming information.* If yes, complete Section V: Wetland Habitat Checklist.

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying fauna. [Use a blank sheet if additional space is needed for text.]

5 min. - Much of the fauna appeared dispersed, other than drought.

4-winged saltbrush / Alkali Sacaton shrubland
fourwing saltbrush / Gyp Dropseed shrubland
Gyp Dropseed shrubland

Bare Biologist

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site? ☐ yes ☒ no *If yes, you are required to verify this information with the U.S. Fish and Wildlife Service.* If species' identities are known, please list them next.

20. Record weather conditions at the time this checklist was prepared:

DATE: 6/12

95° Temperature (°C/°F) _____ Normal daily high temperature

None Wind (direction/speed) None Precipitation (rain, snow)

0% Cloud cover

IA. SUMMARY OF OBSERVATIONS AND SITE SETTING

Area is Circular in appearance with a small trench/ditch going through the center. Area is suspected for burial of munitions. The vegetation in the area is sparse and appears to be distressed. This might be due to vehicular traffic in the past. The vegetation is distinct from the surrounding vegetation in a clear circular pattern. The trench is virtually devoid of vegetation. There is scrap munitions found on the ground throughout the area. Some small burrows were found, but appear abandoned. In addition, the vegetation ~~are~~ in the circular area is less dense with more exposed soil than surrounding areas.

~~Photo 5 - Distressed vegetation~~ AP

~~Photo 6 - Suspected disposal trench.~~

Plants

Completed by Alex Pulley Affiliation Foster Wheeler

Additional Preparers

Site Manager

Date 6/12/02

II. TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

1. Are there any wooded areas at the site? ☐ yes ☒ no If no, go to Section IIB: Shrub/Scrub.

2. What percentage or area of the site is wooded? (_____% _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.

3. What is the dominant type of vegetation in the wooded area? (Circle one: Evergreen/Deciduous/ Mixed) Provide a photograph, if available.

   Dominant plant, if known: _____

4. What is the predominant size of the trees at the site? Use diameter at breast height.

   ☐ 0-6 in. ☐ 6-12 in. ☐ > 12 in.

5. Specify type of understory present, if known. Provide a photograph, if available.

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? ☒ yes ☐ no If no, go to Section IIC: Open Field.

2. What percentage of the site is covered by scrub/shrub vegetation? (80 % _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.

   Visual Estimate

3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.

   Bunch grass, buffalo grass, sage brush
   - Appears distressed. other than drought

4. What is the approximate average height of the scrub/shrub vegetation?

   ☒ 0-2 ft. ☐ 2-5 ft. ☐ > 5 ft.

5. Based on site observations, how dense is the scrub/shrub vegetation?

☐ Dense ☒ Patchy ☐ Sparse

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? ☐ yes ☒ no If yes, please indicate the type below:

   ☐ Prairie/plains ☐ Savannah ☐ Old field ☐ Other (specify)_____

2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.

3. What is/are the dominant plant(s)? Provide a photograph, if available.

4. What is the approximate average height of the dominant plant?_____

5. Describe the vegetation cover: ☐ Dense ☐ Sparse ☐ Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? ☐ yes ☒ no If yes, identify and describe them below.

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.

N/A

3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?

Medium - small burroughs that appear abandoned.
Small insects

4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

None

APPENDIX D

LAND SURVEY INFORMATION

SOUTHWEST ENGINEERING, INC.

475 Archuleta Road
Las Cruces, New Mexico
88005

Phone 505-526-3381
Fax 505-526-1762

Horizontal Control based on recovered USGS Monument stamped "AIR 1952'
(NAD 83}
Monument is a brass cap set flush in concrete under an observation tower. The monument is described in USGS data as:

CX1439 as a first order horizontal control with the horizontal coordinates established by classical geodetic methods and adjusted by the National Geodetic Survey in December 1993.

	North	East	Units	Scale Factor	Converg.
SPC NM C	207,712.313	516,357.607	MT	0.99990330	+0 05 41.6
UTM	3,637,750.694	399,413.809	MT	0.99972475	-0 35 01.1
Conv. SF	681,469.480	1,694,083.249	SF	0.99990330	+0 05 41.6

(0.3048006 ft/m)
Vertical Control based on recovered USGS Monument stamped "CONTROL 1943"
(NAVD 88)
Monument is a brass cap set in concrete north of a taxiway. The monument is described in USGS date as:
CX0126 as VERT ORDER - * POSTED, Code A
This is a POSTED BENCH MARK height. Code A indicates a distribution rate of 0.0 thru 1.0 mm/km
Data derived is based on GPS observation, conventional level loop and a total station for locating monument under tower (AIR 1952)

please note resolved coordinates:

Well #	Northing	Easting	Elevation	Description
MW#1	683862.8614	1693403.5990	4145.81	N Rim pvc mw01
	683863.1427	1693403.6056	4147.22	nr casing mw#1
MW#2	683611.3236	1693121.8217	4142.10	N Rim pvc mw02
	683611.7270	1693121.8830	4143.09	nr 8" cover mw#2
MW#3	683419.3786	1692936.4940	4139.90	N Rim pvc mw03
	683419.6153	1692936.4821	4140.17	nr 8"casing mw#3
MW#4	682941.7929	1693150.3089	4135.64	N Rim pvc mw04
	682942.2163	1693150.3125	4136.17	nr 12" casing mw#4
MW#5	682774.9311	1693017.9792	4136.19	N Rim pvc mw05
	682775.3260	1693017.9790	4136.55	nr 12" casing mw#5

John A. Vukonich, PE/PS 12-4-02

APPENDIX D
Land Survey Information

Well Surveyed by Licensed Surveyor

Well #	Northing (ft)	Easting (ft)	Elevation (ft msl)	Depth to Water (9/10/2002)	Groundwater Elevation (ft msl)	Comment
DP63-MW01	683862.8614	1693403.599	4145.81	54.02	4091.79	
DP63-MW02	683611.3236	1693121.822	4142.10	51.63	4090.47	
DP63-MW03	683419.3786	1692936.494	4139.90	50.05	4089.85	
DP63-MW04	682941.7929	1693150.309	4135.64	45.81	4089.83	
DP63-MW05	682774.9311	1693017.979	4136.19	46.74	4089.45	
DP63-DP07	682962.4705	1693153.895				
DP63-DP08	683021.8817	1693182.726				
DP63-DP10	682957.9846	1693052.217				
DP63-DP11	683099.1642	1692226.851				Temp well point West Area
DP63-DP12	683102.1345	1692200.563				
DP63-DP13	683121.9382	1692210.173				

DPT Locations Surveyed Using GPS

Location #	Northing (ft)	Easting (ft)
DP63-DP01	682994.519	1693193.620
DP63-DP02	682984.733	1693203.886
DP63-DP03	682944.228	1693188.965
DP63-DP04	683069.162	1692219.964
DP63-DP05	682956.547	1693206.346
DP63-DP06	682912.460	1693197.474
DP63-DP08	682989.791	1693156.180
DP63-DP09	683005.000	1693080.000
DP63-DP10	682935.267	1693051.136
DP63-DP14	683598.159	1693151.339
DP63-DP16	683645.337	1693121.348
DP63-DP17	683666.833	1693150.777
DP63-DP18	683642.378	1693179.291
DP63-DP19	683609.813	1693175.018

APPENDIX E

SITE PHOTOGRAPHS AND GEOPHYSICAL MAPS FROM THE PA/SI OF DP-63

Photograph 1. East Area looking north from south side of geophysical survey grid.

Photograph 2. East Area looking west at the West Area from East Area.

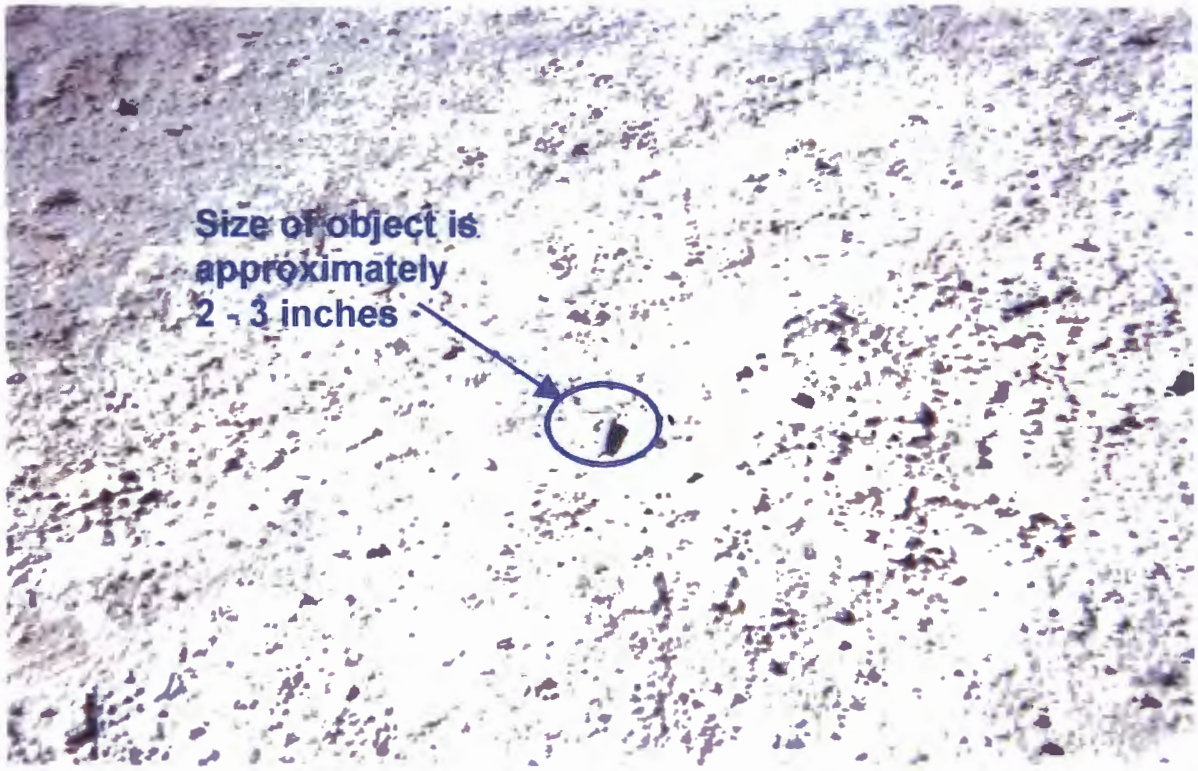
Photograph 3. East Area looking southwest from northeast corner of geophysical survey grid.

Photograph 4. East Area looking south from northeast corner of geophysical survey grid.

Photograph 5. East Area looking west from East Area geophysical survey grid.

Photograph 6. East Area looking south from northeast corner of geophysical survey grid.

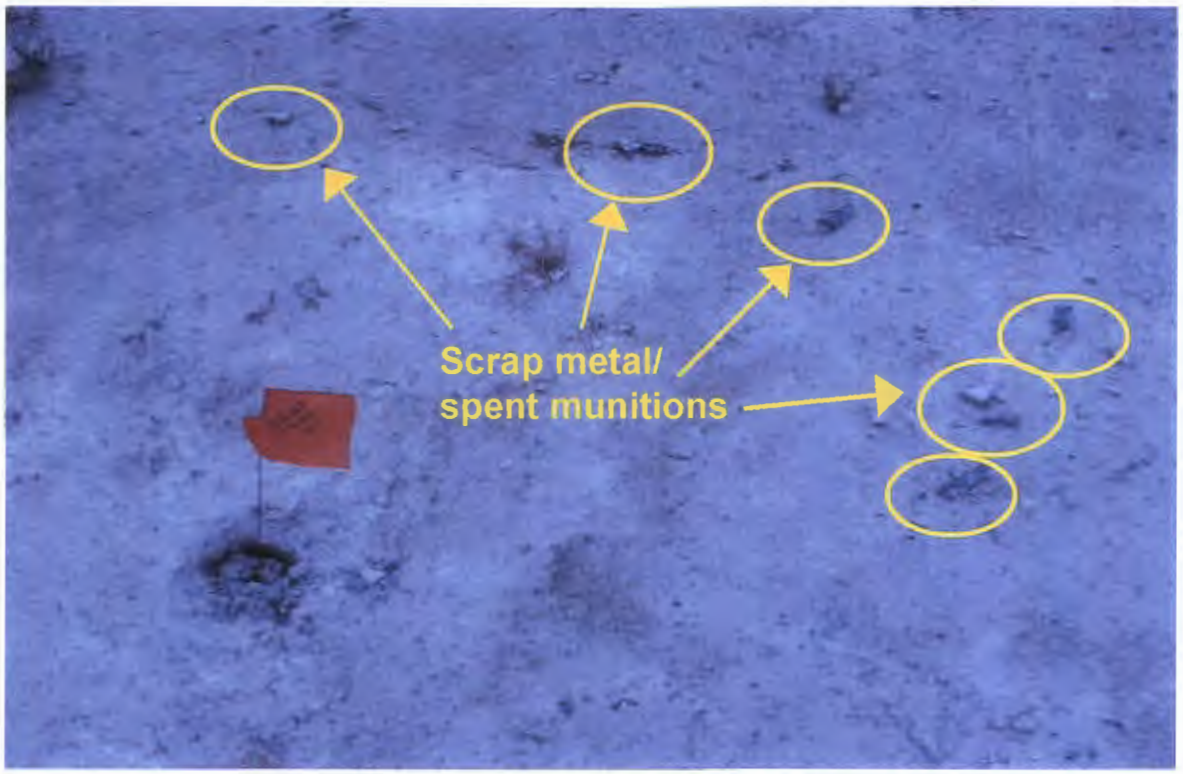
Photograph 7. View across West Area geophysical survey grid looking south.



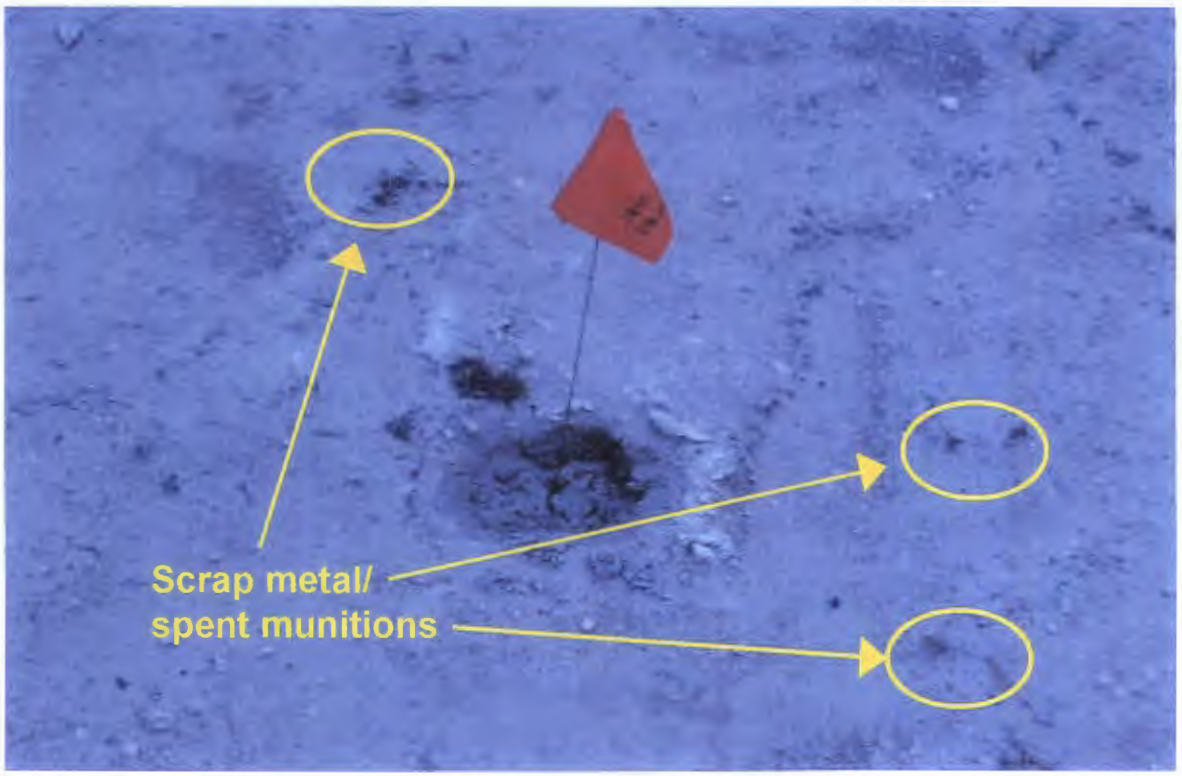
Photograph 8. Close-up view of ground surface at the West Area geophysical anomaly.

Photograph 11. The North Area looking south

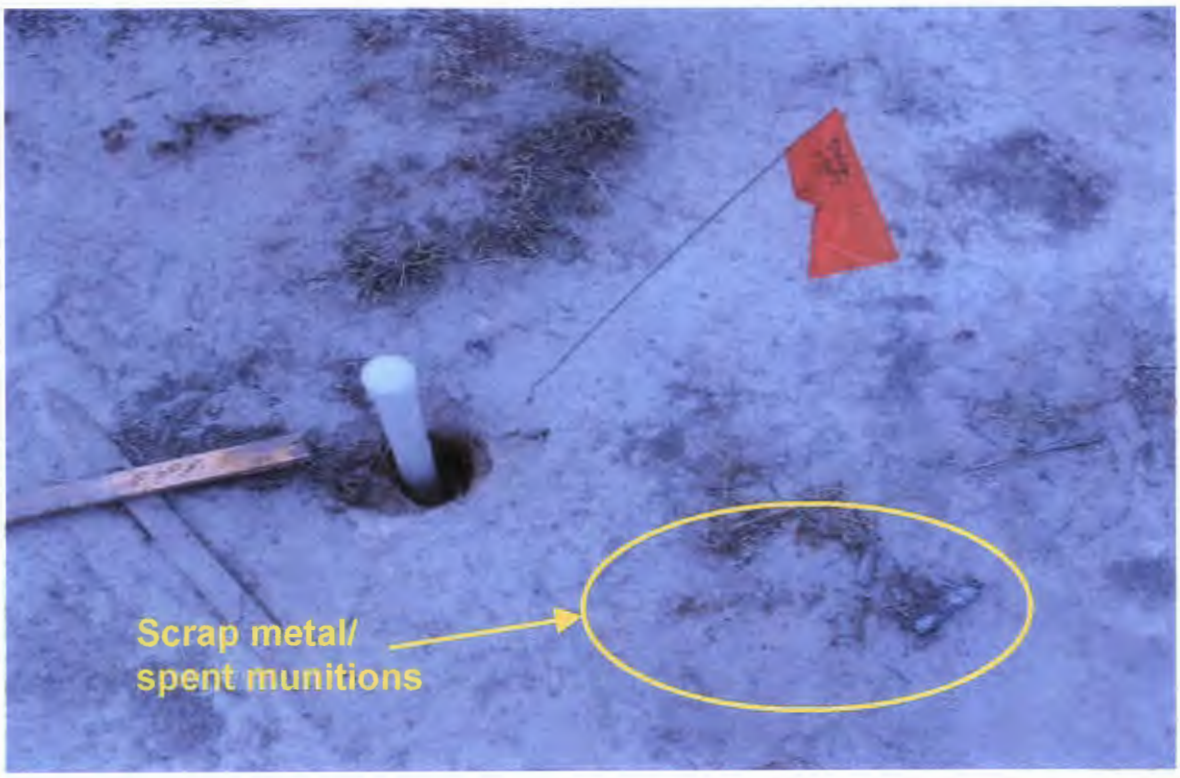
Photograph 12. Surface metal debris in the North Area of DP-63 (2).



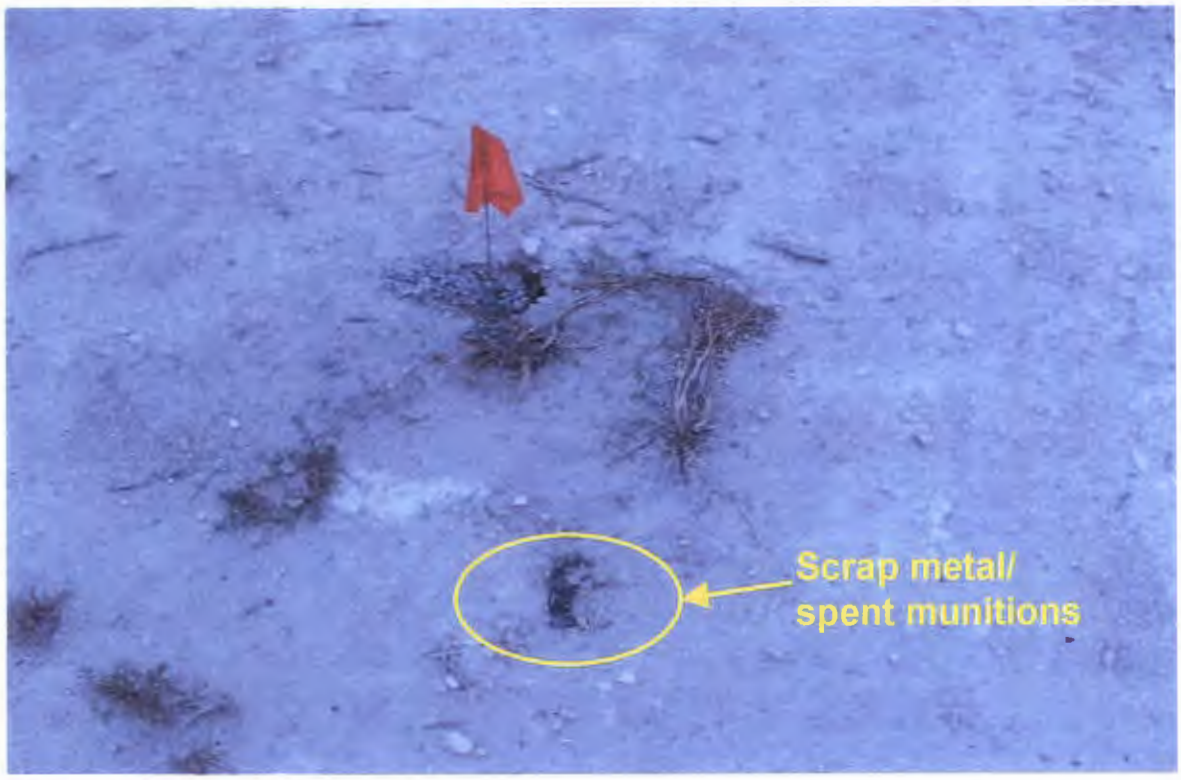
Photograph 13. Surface metal debris at DP-12, West Area



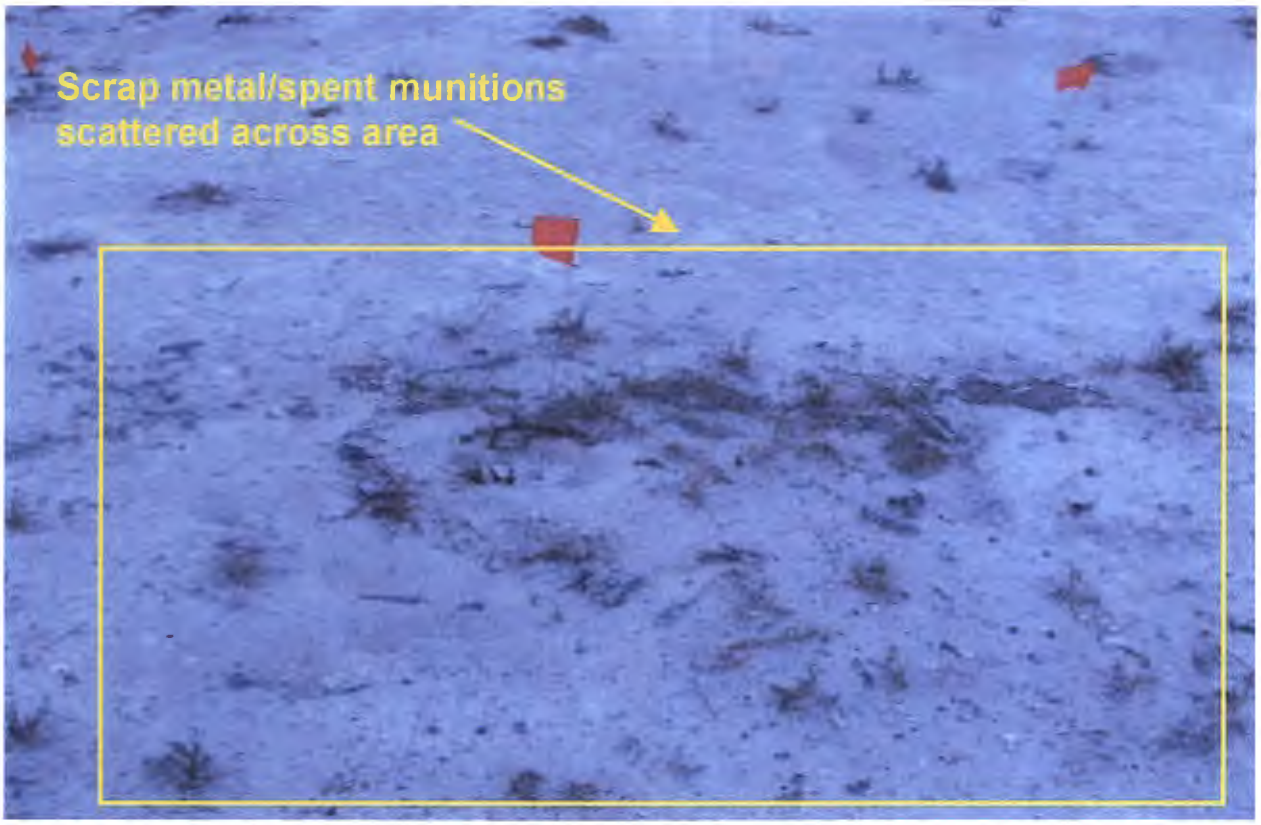
Photograph 14. Surface metal debris at DP-05, East Area



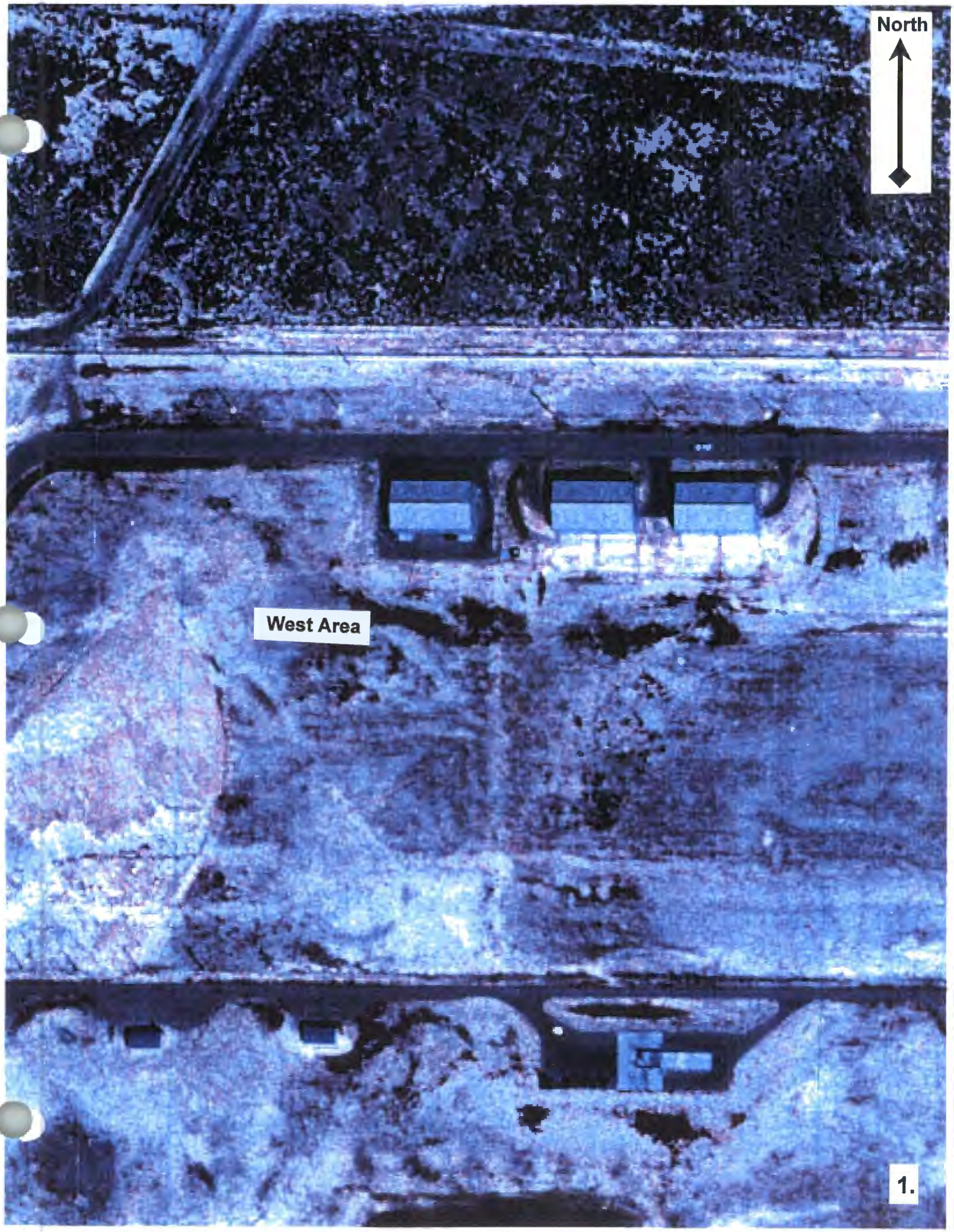
Photograph 15. Surface metal debris and temporary well point at DP-13, West Area

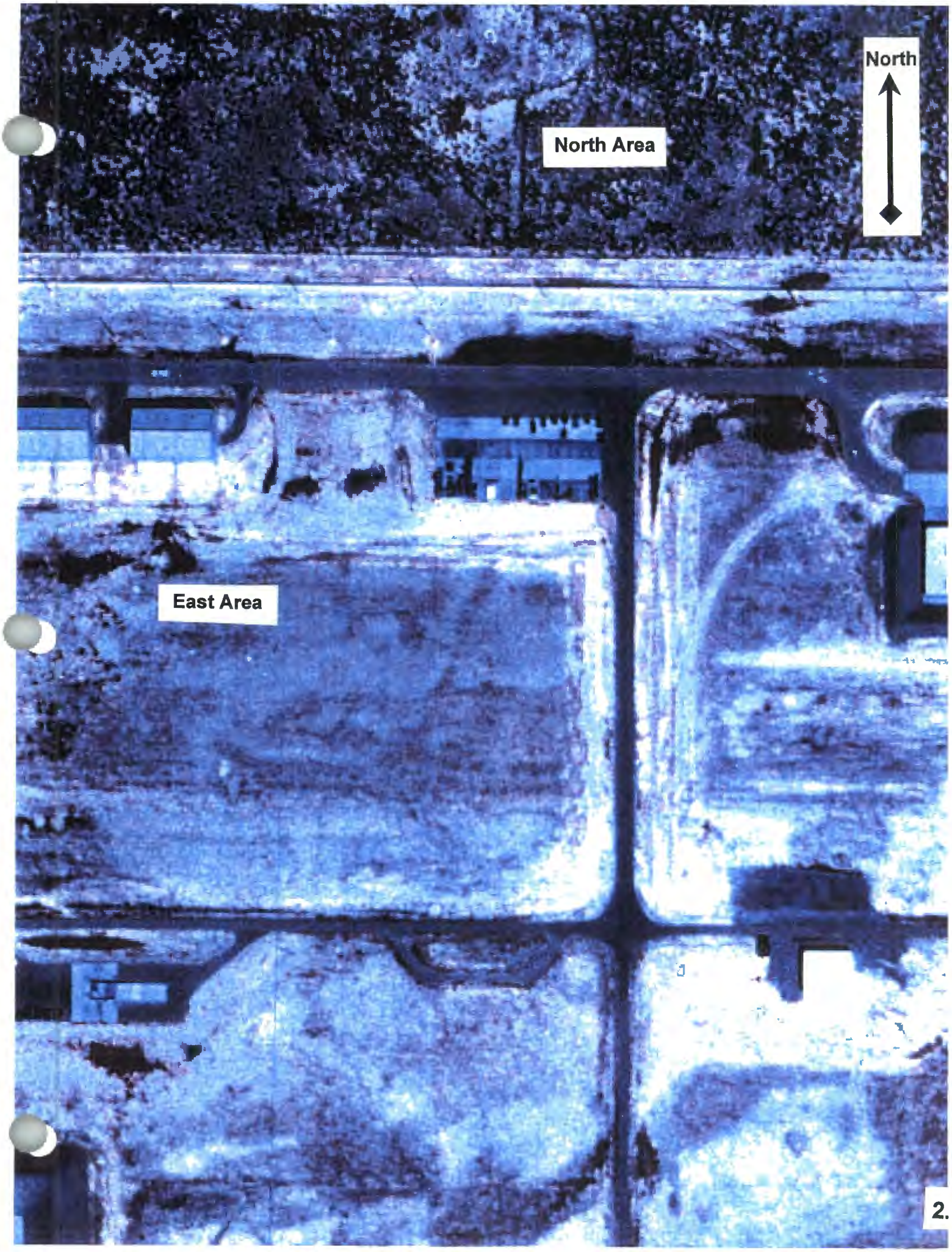


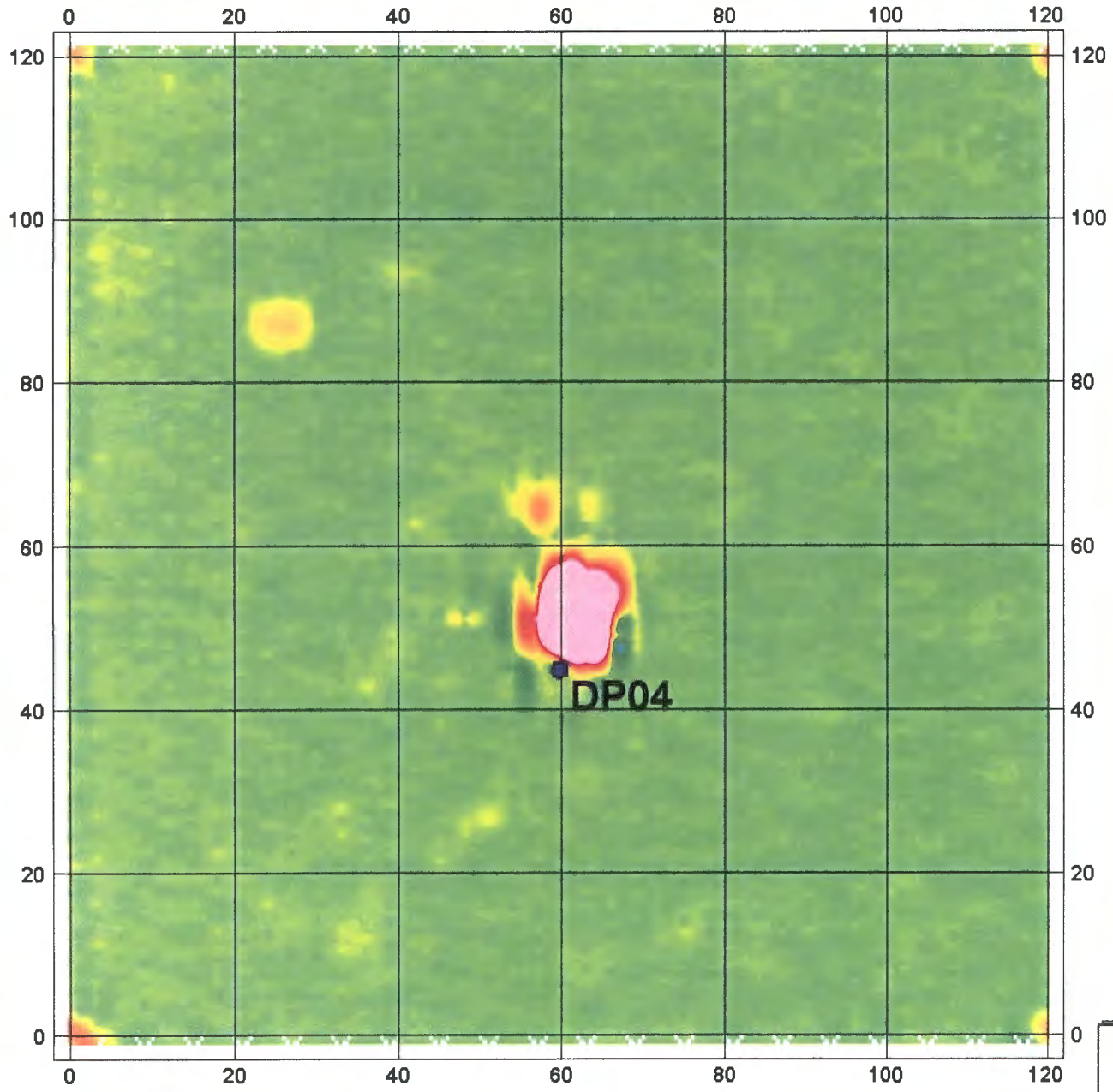
Photograph 16. Surface metal debris at DP-11, West Area



Photograph 17. Surface metal debris at the West Area geophysical anomaly

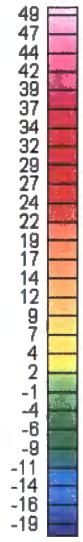

North
West Area
1.


North
North Area
East Area
2.



Note: Survey completed in March 2000.

Site 2--West Area



mV
(Channel 2)

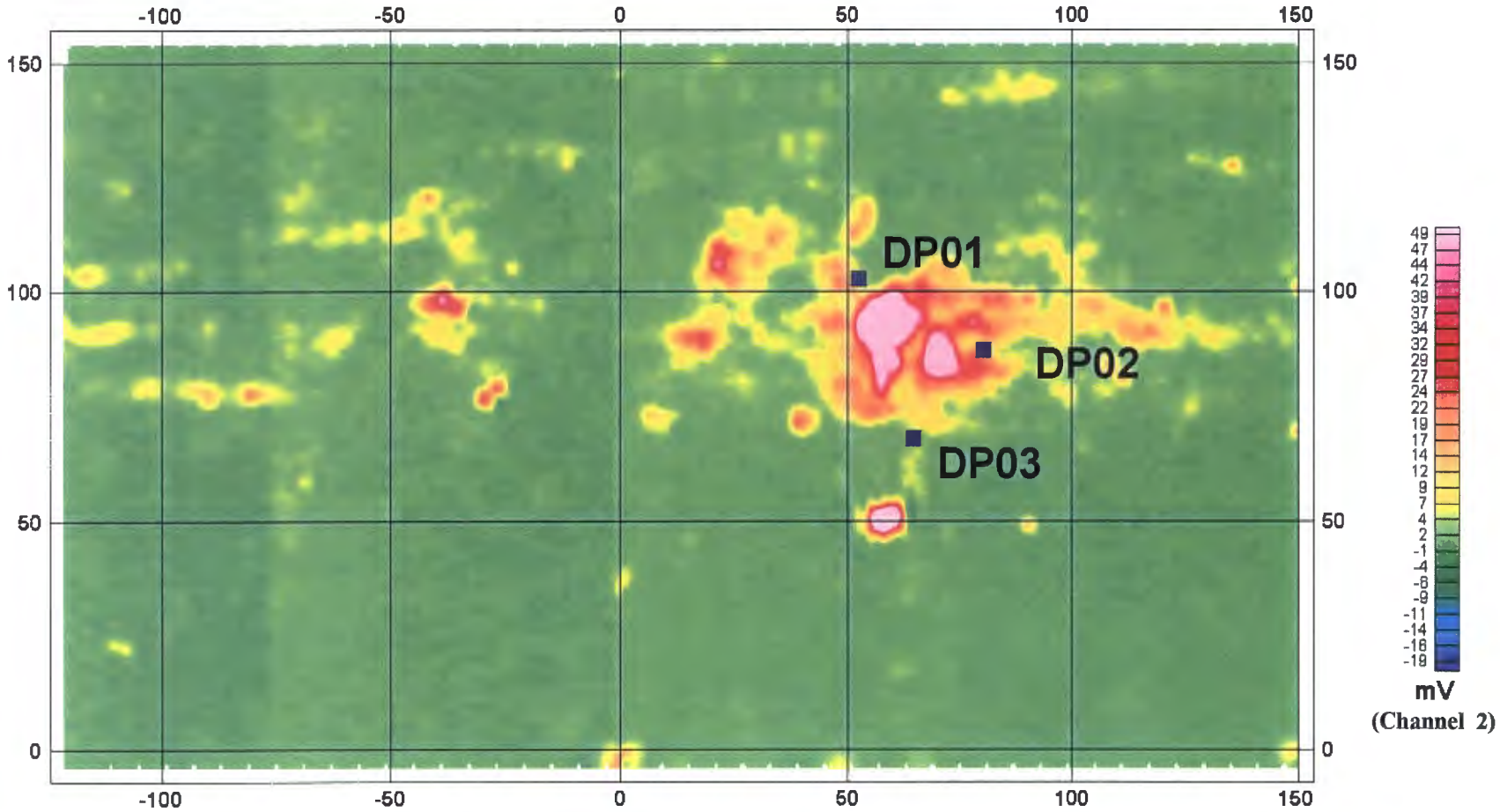
Scale 1:240

Figure 2-2

DP-63 West Area Geophysical Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Site 1--East Area



Note: Survey completed in March 2000.

Scale 1:420

25 0 25

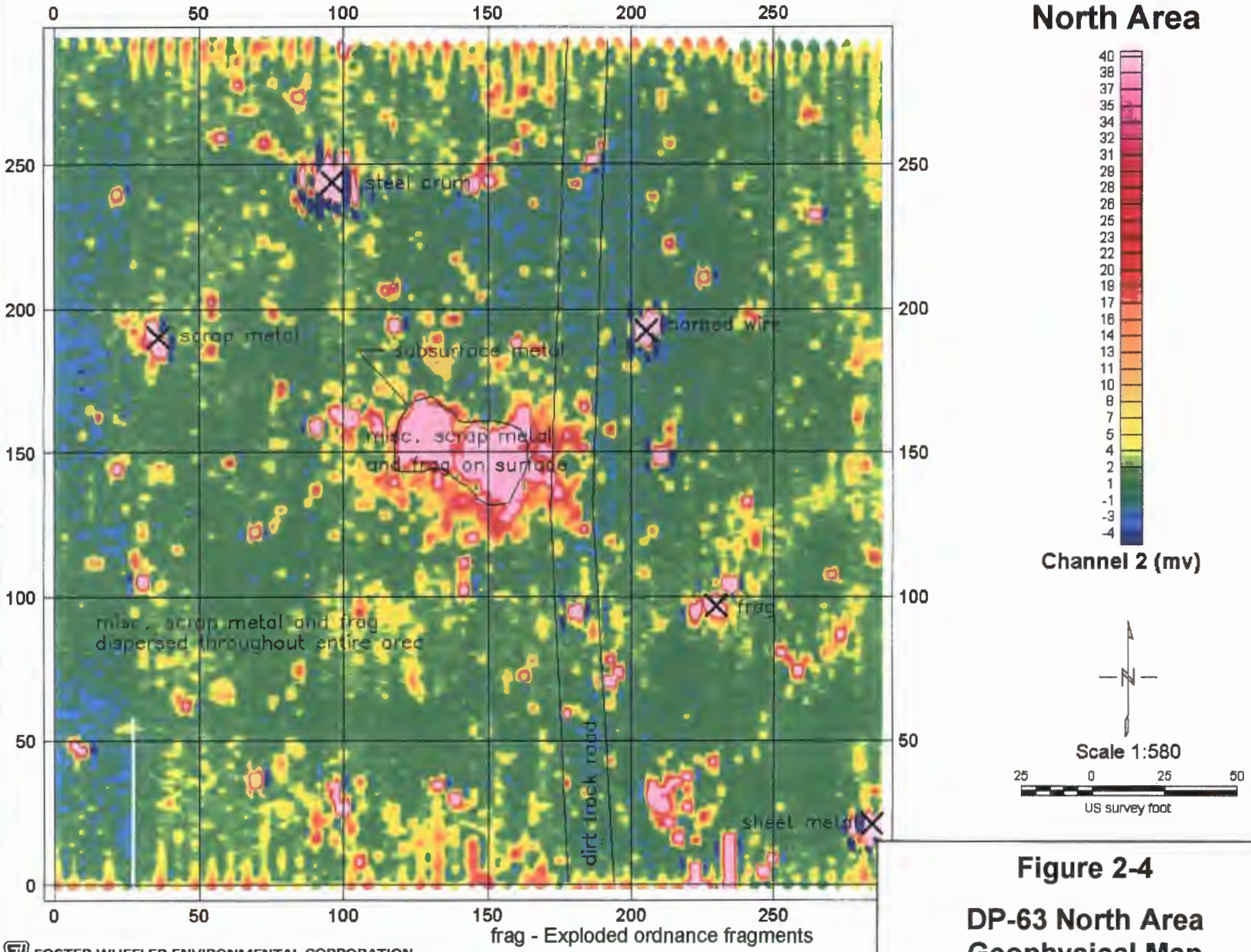
US survey foot

Figure 2-3

DP-63 East Area Geophysical Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Note: Survey completed in September 2000.



frag - Exploded ordnance fragments

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Figure 2-4

DP-63 North Area Geophysical Map