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CORRECTIVE ACTION PLAN PROGRESS REPORT FOR CALENDAR YEAR 2007

FOR THE

3d Inf Div (Mech)

SOLID WASTE MANAGEMENT UNIT 27F: 3D ENGINEER BRIGADE, NORTHWEST OF BUILDING 1340 AT FORT STEWART, GEORGIA

Prepared for

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

Contract No. DACA21-02-D-0004
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REGULATORY AUTHORITY
Resource Conservation and Recovery Act
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Prepared for
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

contributed to the preparation of this document and should not be considered an eligible contractor for its review.

CERTIFICATION

This *Corrective Action Plan Progress Report for Calendar Year 2007 for the Solid Waste Management Unit 27F: 3d Engineer Brigade Northwest of Building 1340 at Fort Stewart, Georgia*, has been prepared in accordance with Title 40, *Code of Federal Regulations,* Part 264 and Hazardous Waste Facility Permit No. HW-045(S&T), as renewed August 14, 1997.

The undersigned certifies that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and that I have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, to enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

GEORGIA REGISTERED 22851 PROFESSIONAL ENGINEER P.A. STOLL

Patricia A. Stoll, P.E.
Technical Manager
Science Applications International Corporation

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ACRONYMS

AT123D	Analytical Transient 1-, 2-, 3-Dimensional (model)
BGS	below ground surface
BHHRA	baseline human health risk assessment
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
COC	constituent of concern
COPC	constituent of potential concern
CY	calendar year
DCE	dichloroethene
DPT	direct-push technology
DPW	Directorate of Public Works
EPA	U. S. Environmental Protection Agency
F&T	fate and transport
FSMR	Fort Stewart Military Reservation
GA EPD	Georgia Environmental Protection Division
HHCOC	human health constituent of concern
HI	hazard index
MCL	maximum contaminant level
MDC	maximum detected concentration
MNA	monitored natural attenuation
OWS	oil/water separator
PRG	preliminary remediation goal
psi	pounds per square inch
PVC	polyvinyl chloride
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
RL	remedial level
SAIC	Science Applications International Corporation
SAP	sampling and analysis plan
SESOIL	Seasonal Soil Compartment (model)
SRC	site-related constituent
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	solid waste management unit
USACE	U. S. Army Corps of Engineers
UST	underground storage tank
VOC	volatile organic compound

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1.0 INTRODUCTION

This report presents results from the soil and groundwater monitoring between calendar year (CY) 2004 and April of 2007 for Solid Waste Management Unit (SWMU) 27F: 3d Engineer Brigade, Northwest of Building 1340 at Fort Stewart, Georgia. This report was prepared in accordance with the requirements of the addendum for SWMU 27F to the revised final Phase II Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report for 16 SWMUs (SAIC 2001) and the final Corrective Action Plan (CAP) for the site (SAIC 2004). The revised final Phase II RFI for 16 SWMUs was issued in April 2000 (SAIC 2000).

This report has been prepared by Science Applications International Corporation (SAIC) for the U. S. Army Corps of Engineers (USACE), Savannah District under contract DACA21-02-D-0004, delivery order 0069. The soil and groundwater sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) for 16 SWMUs (SAIC 1997) and Addendum No. 6 to the SAP for Phase II RFI of 16 SWMUs at Fort Stewart, Georgia, dated August 2005, which was developed in accordance with USACE Guidance EM 200-1-3.

1.1 SITE BACKGROUND AND OPERATIONAL HISTORY

SWMU 27F, northwest of Building 1340, is 1 of 2 oil/water separators (OWSs) that support the vehicle maintenance activities of the 3d Engineer Brigade and 1 of 32 OWSs distributed across 29 sites that support the vehicle maintenance facilities within the garrison area (Figure 1). The OWS is located along the northwestern boundary of the motor pool area, approximately 650 ft northwest of Building 1340 (Figure 2) and adjacent to a covered maintenance area identified as Building 1390. Maintenance activities for military vehicles were performed at the maintenance pad up to 2001 when the facility was supposedly shut down. The maintenance pad consists of six bays, three of which have inspection pits that allow military personnel to access underneath the military vehicles. A floor drain is located in each of the inspection pits to collect any drainage (i.e., spills and water) that may collect in the inspection pit. The floor drains are piped to the OWS by way of a common 6-in.-polyvinyl chloride (PVC) pipe (Pipe A on Figure 2). In addition, a sliding collection tray is located in each inspection pit that allows oil from maintenance of vehicles to be directly discharged into a 1,000-gal waste oil underground storage tank (UST). A drain in the sliding collection tray flows to a trough located on the east side of each inspection pit. The troughs transition into a 3-in.-diameter steel pipe that flows below ground to a common 4-in.-diameter cast iron pipe (Pipe D in Figure 2) that discharges to a 1,000-gal waste oil UST located south of the OWS (Figure 2). The UST was removed in 1996 and the pipes supposedly abandoned.

A grated drainage trench approximately 4 in. wide × 12 in. deep × 116 ft long runs east to west along the south side of the maintenance pad. The drainage trench transitions into a 4-in.-diameter PVC pipe at the western end of the trench, which then travels parallel along the length of the OWS and ties into the 6-in. PVC pipe (Pipe A on Figure 2) prior to it entering the OWS.

Oil discharged into the main chamber of the OWS is removed by the skimmer and flows (Pipe C on Figure 2) to the smaller holding chamber/reservoir located at the south end of the OWS. Waste oil was routinely pumped out of the holding unit and burned at the Central Energy Plant. The effluent from the OWS (Pipe E) is discharged to a 6-in.-diameter PVC pipe, which discharges to the Industrial Wastewater Treatment Plant by way of Manhole No. 27 (Figure 2).

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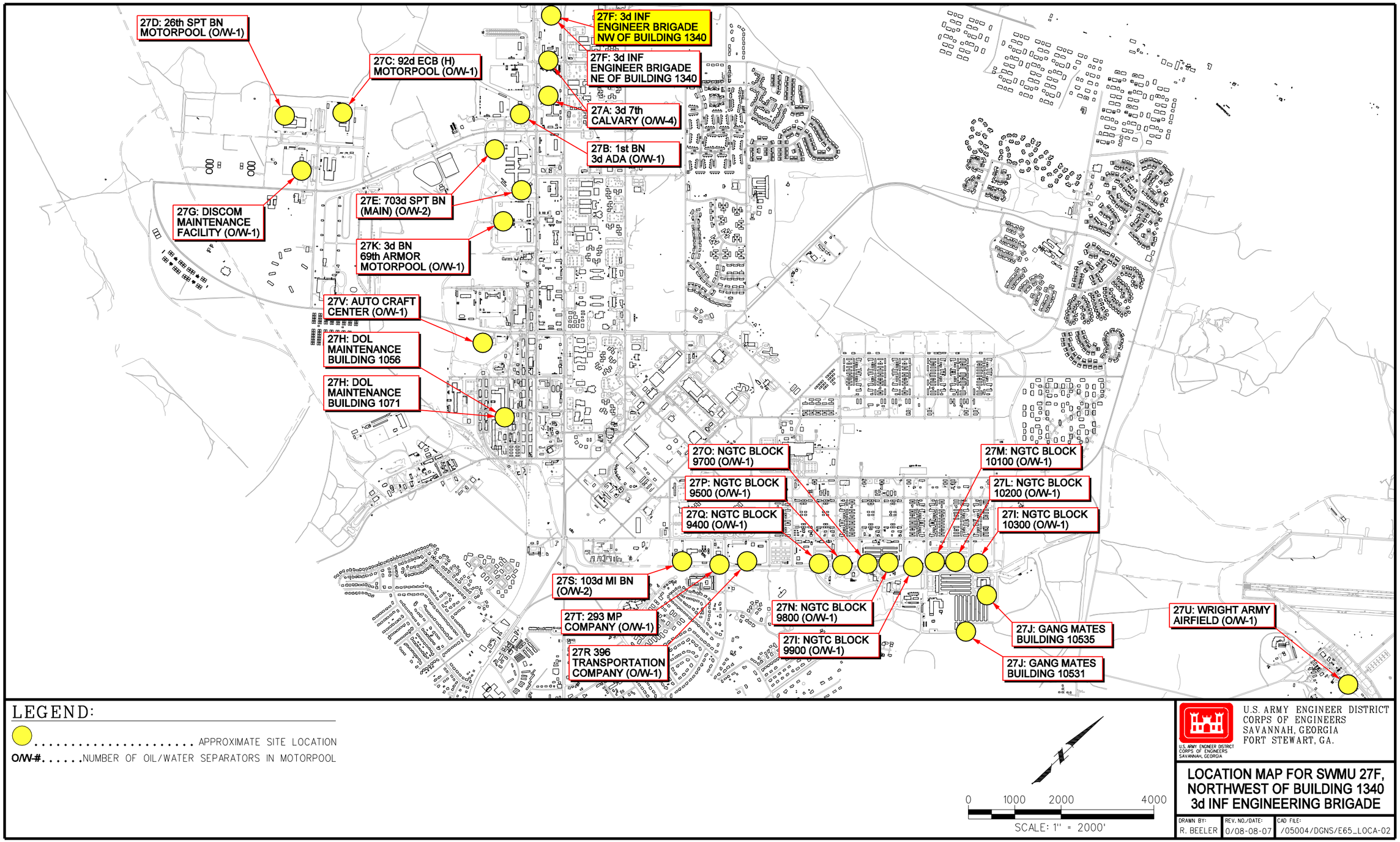

Figure 1. Location Map for SWMU 27F, Northwest of Building 1340

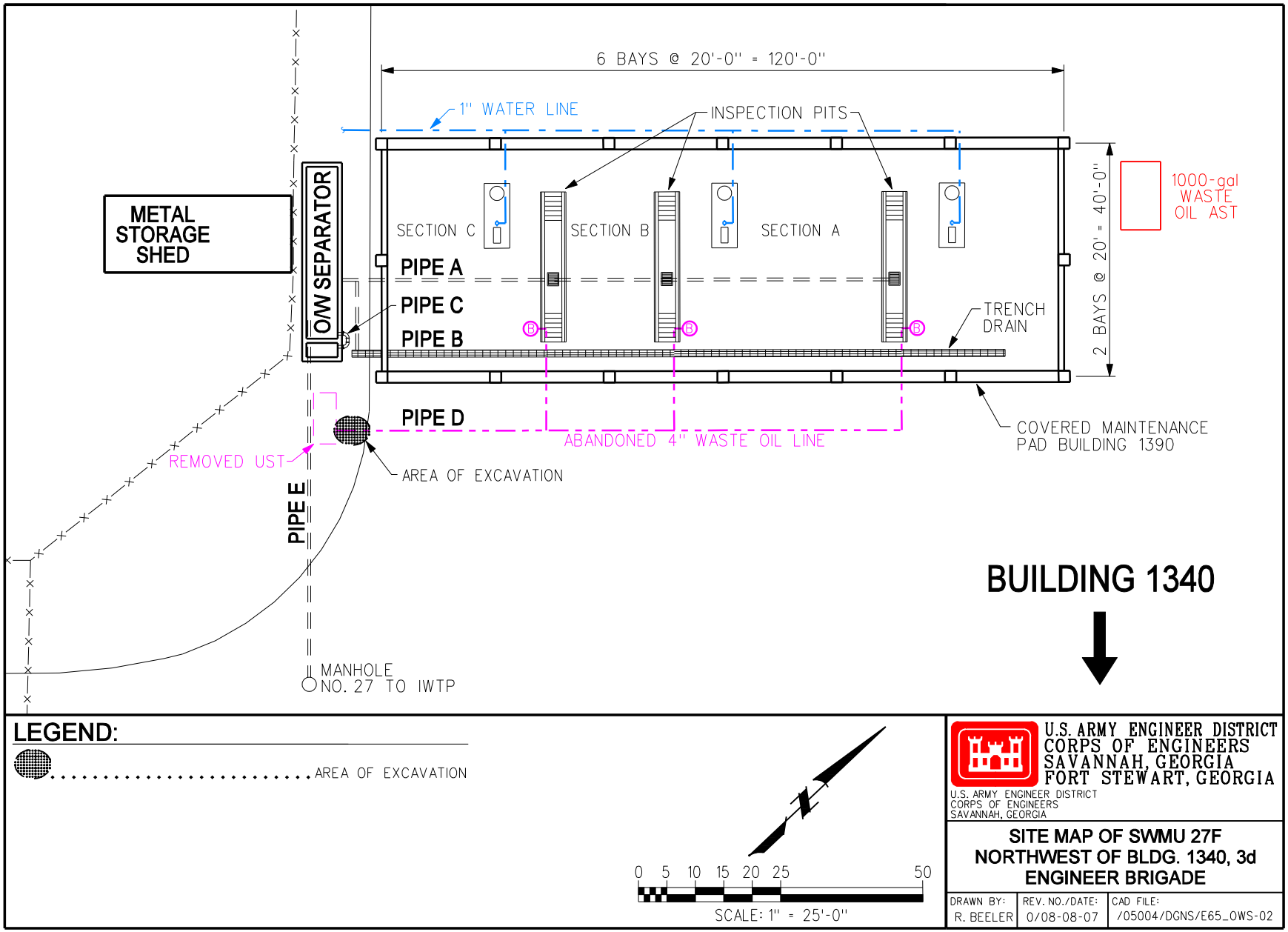

Figure 2. OWS and Piping Layout of Maintenance Pad at SWMU 27F, Northwest of Building 1340

The OWS was supposedly closed in 2001. The closure consisted of placing plywood over the metal grates covering the OWS. A site inspection of the facility in early CY 2007 indicated that the maintenance facility had been sporadically used since 2001. Vehicles have been observed at the facility and waste oil had accumulated in the OWS. In addition, the 3-in.-diameter pipe in the inspection pit closest to the OWS was found to be open. It is not known if the pipe was not plugged during the abandonment of the UST in 1996 or whether the plug had been removed. The 3-in.-diameter pipes in the other two inspection pits had grouted ends. Maintenance activities were identified as late as July 2007. It is believed that these operations may have been the source of further contamination if the integrity of the OWS and its piping had been compromised; therefore, an evaluation of the integrity of the OWS and piping was needed. Therefore, in May of 2007, an OWS and piping evaluation was performed that consisted of cleaning out the liquid and solid material in the OWS; cleaning the interior of the OWS; visually inspecting the OWS and piping; evaluating the integrity of the piping using a combination of visual inspection, smoke testing, low-pressure air testing, and static water testing; properly abandoning the pipe to the removed waste oil UST; and installing an aluminum, locked cover on top of the OWS to prevent its future use. In addition, the Fort Stewart Military Reservation (FSMR) Directorate of Public Works (DPW) has initiated engineering controls to prevent the use of the facility.

1.2 SUMMARY OF PHASES I AND II RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATIONS

A Phase I RFI was conducted at SWMU 27F, northwest of Building 1340, in January 1998 [see the revised final Phase II RFI Report (SAIC 2000) for the results]. During the Phase I RFI, direct-push technology (DPT) techniques were used to collect four soil and groundwater samples at the site. These samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and lead. The Phase I RFI concluded that the vertical and horizontal extents of potential groundwater contamination had not been determined and recommended additional groundwater screening and the installation of shallow and possibly deep groundwater monitoring wells at the site (up- and downgradient).

A Phase II RFI was conducted in October 1999 consisting of initial screening using DPT techniques followed by the installation of 11 monitoring wells (8 shallow and 3 deep) at the site. One shallow and one deep monitoring well (MW1/MW2) were installed upgradient (background). In addition, a recovery well (MW12) was installed to recover potential free product identified on a clay lens encountered at approximately 8 ft below ground surface (BGS) (Figure 3).

The Phase II RFI concluded that benzo(*a*)pyrene was a human health constituent of concern (HHCOC) in surface soil. The extent of benzo(*a*)pyrene in surface soil was confined to a single location near the OWS. In addition, benzene and bis(2-ethylhexyl)phthalate were identified as HHCOCs in groundwater. The bis(2-etheylhexyl)phthalate concentration was believed to be the result of field or laboratory contamination.

To further define the extent of groundwater contamination, Fort Stewart recommended the installation of six new shallow monitoring wells (MW13 through MW18) downgradient of the source area and the re-sampling of the groundwater at all new and existing monitoring wells prior to the development of the CAP. The six new wells were installed in December 2000 (Figure 4). Thirteen shallow monitoring wells [six of which were installed in accordance with the recommendations of the final revised final Phase II RFI Report (SAIC 2000)] and four deep monitoring wells were low-flow sampled in January 2001 as part of the supplemental data collection (Figure 4). The groundwater samples were analyzed for VOCs and

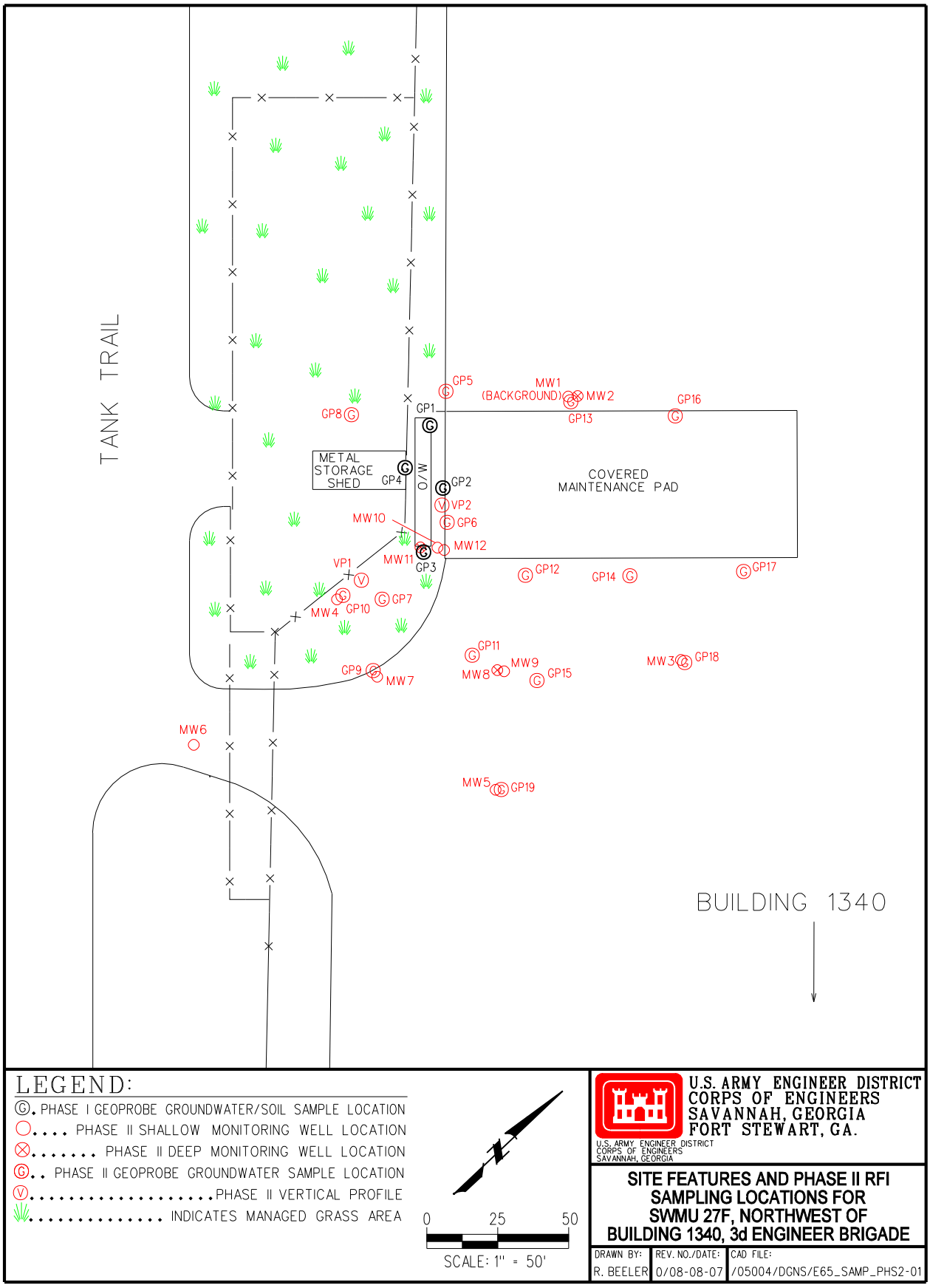

Figure 3. Site Features and Phase II RFI Sampling Locations at SWMU 27F, Northwest of Building 1340

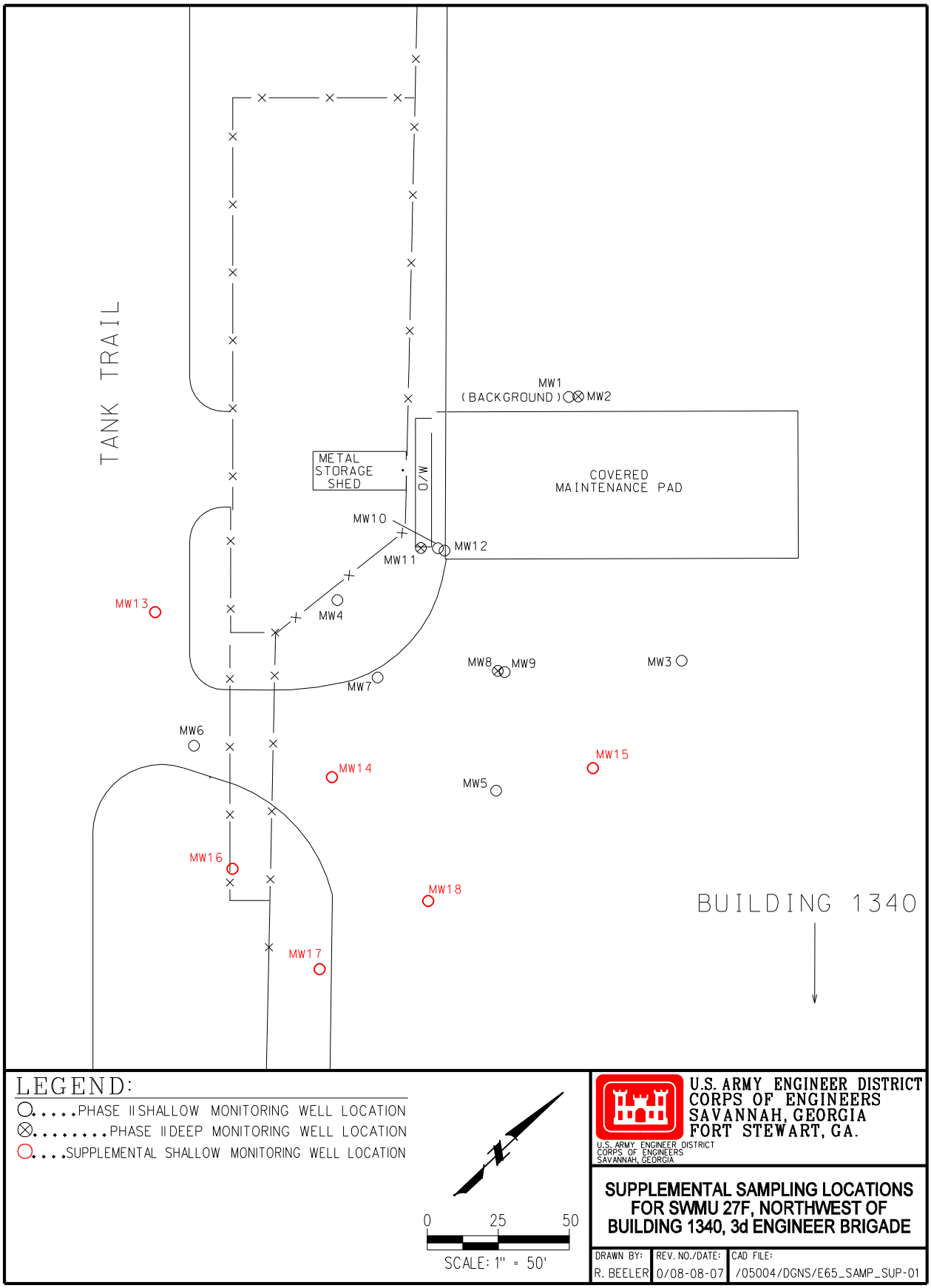

Figure 4. Supplemental Sampling Locations for SWMU 27F, Northwest of Building 1340

SVOCs. In addition, MW12, the monitoring well installed above the clay layer that occurs at approximately 8 ft BGS, was checked for free product. Floating product was identified in MW12. Approximately 0.05 ft of a thick, black, viscous material was indicated in MW12 during the measurement of the water level in May 2001. The material was removed with an absorbent sock. The material did not readily recharge in MW12. The free product identified in MW12 is believed to be residual soil contamination from either overflows from the adjacent OWS and/or the removed waste oil UST. Small quantities of heavy petroleum products are trapped within the soil matrix and are slowly migrating to groundwater with time.

Five VOCs (2-butanone, 4-methyl-2-pentanone, benzene, ethylbenzene, and total xylenes) were detected in shallow groundwater at SWMU 27F and considered to be site-related constituents (SRCs). Benzene also exceeded its maximum contaminant level (MCL) of 5 µg/L.

Five SVOCs (2-methylnaphthalene, 4-methylphenol, carbazole, fluorene, and naphthalene) were detected in shallow groundwater at SWMU 27F. No VOCs or SVOCs were detected in the deep groundwater during the supplemental sampling at SWMU 27F.

The Phase II investigation concluded that benzene and carbazole were considered to be constituents of concern (COCs) in groundwater at SWMU 27F. The following constituents were considered to be COCs in surface soil: arsenic, benzo(*a*)anthracene, benzo(*a*)pyrene, benzo(*b*)fluoranthene, and dibenzo(*a,h*)anthracene. Remedial levels (RLs) were set for each COC. The RLs for soil and groundwater are presented in Tables 1 and 2, respectively. The maximum detected concentrations (MDCs) of arsenic, benzo(*a*)anthracene, benzo(*b*)fluoranthene, and dibenzo(*a,h*)anthracene in soil and carbazole in groundwater were below their respective RLs. Benzo(*a*)pyrene in surface soil and benzene in groundwater were identified as COCs at SWMU 27F requiring remediation. The Phase II estimated areal extents of soil and groundwater contamination at SWMU 27F are presented in Figure 5.

1.3 CORRECTIVE ACTION PLAN FOR SWMU 27F

In accordance with the recommendations of the Phase II RFI, a CAP was developed for SWMU 27F to evaluate potential remedial alternatives to address HHCOCs in surface soil [benzo(*a*)pyrene] and groundwater (benzene) (SAIC 2004).

Table 1. Remedial Levels for Surface Soil, SWMU 27F, Northwest of Building 1340

COC	Units	Maximum Detected Concentration	Risk-Based Remedial Levels		Surface Soil Background Concentration
			ILCR		
			1×10^{-6}	1×10^{-5}	
Arsenic	mg/kg	4.40	1.01	**10.12**	2.1
Benzo(*a*)anthracene	mg/kg	3.94	0.89	**8.93**	0
Benzo(*a*)pyrene	mg/kg	2.43	0.09	**0.89**	0
Benzo(*b*)fluoranthene	mg/kg	2.88	0.89	**8.93**	0
Dibenzo(*a,h*)anthracene	mg/kg	0.54	0.09	**0.89**	0

COC = Constituent of concern.
ILCR = Incremental lifetime cancer risk.
SWMU = Solid waste management unit.
Bold indicates values are recommended remedial levels.

Table 2. Remedial Levels for Groundwater, SWMU 27F, Northwest of Building 1340

COC	Maximum Detected Concentration	Units	Risk-Based Remedial Levels		Maximum Contaminant Level	Quantification Limits
			ILCR			
			1×10^{-6}	1×10^{-5}		
Benzene	61	µg/L	NA	NA	**5**	2
Carbazole	5.7	µg/L	3.5	**34.9**	ND	9.6

COC = Constituent of concern.
ILCR = Incremental lifetime cancer risk.
NA = Not applicable; remedial level for groundwater defaults to the maximum contaminant level.
ND = No data; this constituent does not have a maximum contaminant level.
SWMU = Solid waste management unit.
Bold indicates values are recommended remedial levels.

Corrective action technologies were identified for benzo(*a*)pyrene in surface soil and benzene in groundwater at SWMU 27F. The screened technologies for surface soil and groundwater were combined to form remedial alternatives to meet the remedial response objectives for soil and groundwater. The remedial response objectives for SWMU 27F were to reduce the present concentrations of the site COCs in soil [benzo(*a*)pyrene] and groundwater (benzene) to the RLs presented in the revised final addendum (SAIC 2001) to the revised final Phase II RFI Report (SAIC 2000). In addition, MW12 would be monitored during the performance of the selected remedy to determine if the 0.05 ft of thick, black, viscous material represents an active source of potential contamination.

The three remedial alternatives were

- Alternative 1: monitored natural attenuation (MNA) for surface soil and groundwater;
- Alternative 2: MNA for surface soil and specialized bacteria addition for groundwater; and
- Alternative 3: excavation for surface soil and enhanced bioremediation with oxygen injection for groundwater.

The selected corrective action alternative for treatment of soil and groundwater was MNA. This alternative was selected for remediation because it would effectively achieve the RLs in a reasonable period of time and would do so cost-effectively. Modeling predicted that MNA would achieve the soil RL in approximately 2 years from October 1999. Modeling also predicted that MNA would achieve the groundwater RLs in less than 6 years from January 2001. An additional year was added as a contingency.

The conceptual design for MNA consisted of the following:

- Land use restrictions to prohibit the disturbance of surface and subsurface soil, use of groundwater, hunting, recreational activities, and construction within the property boundaries.
- MNA of surface soil located around MW10. Only two soil sampling events were expected to be required.

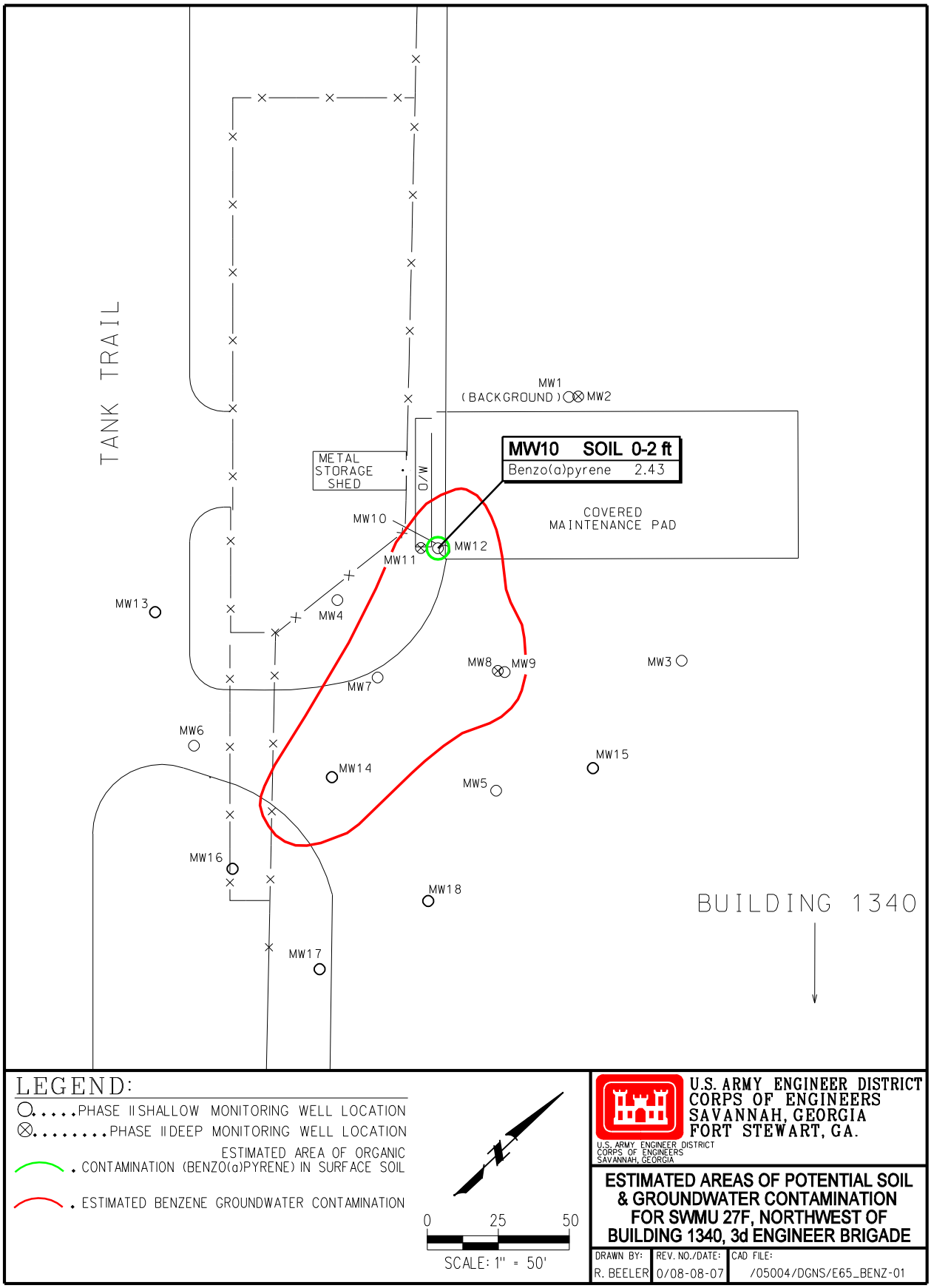

Figure 5. Estimated Areas of Potential Soil and Groundwater Contamination, SWMU 27F, Northwest of Building 1340

- MNA of groundwater. During the MNA period, 13 shallow surficial groundwater wells (MW1, MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW14, MW15, MW16, MW17, and MW18) would be sampled biannually (every 2 years) to verify that benzene concentrations are declining, concentrations of other potential SRCs not detected to date do not present a risk to human health and are not increasing with time, and active biodegradation is occurring.

- With the Georgia Environmental Protection Division's (GA EPD's) concurrence, all groundwater monitoring wells would be abandoned when concentrations were below RLs and the remediation was determined to be complete.

The CAP and its selected alternative were issued to GA EPD on July 23, 2002, for its review. Comments were received from GA EPD in August of 2004. A revised final CAP was reissued in November 2004. The revised final CAP was approved by GA EPD in a letter dated February 14, 2005.

1.4 CALENDAR YEAR 2002 SAMPLING EVENT

The first annual sampling event was conducted by SAIC in September 2002 and consisted of the collection of 2 surface soil samples from the area surrounding MW10 and groundwater sampling from 13 shallow monitoring wells. The results of this sampling event were presented in the revised final CAP Progress Report for CY 2002 for SWMU 27F dated December 2005 (SAIC 2005) and approved by GA EPD in a letter dated February 20, 2006.

During the sampling event, two surface soil samples were collected from around MW10 using a hand auger and analyzed for SVOCs. Four SVOCs [benzo(*a*)pyrene, fluoranthene, indeno(1,2,3-*cd*)pyrene, and pyrene] were detected in the surface soil sample SS02 at concentrations of 0.092, 0.0576, 0.0489, and 0.0677 mg/kg, respectively. No SVOCs were detected at the SS01 location. Benzo(*a*)pyrene, fluoranthene, indeno(1,2,3-*cd*)pyrene, and pyrene were considered SRCs in surface soil because they were detected above reference background criteria. The maximum concentrations of fluoranthene, indeno(1,2,3-*cd*)pyrene, and pyrene were below the maximum concentrations detected during the Phase II RFI; therefore, in accordance with the protocol and decision flowchart approved by GA EPD for evaluating SRCs identified in media collected after the establishment of RLs through either an RFI report and/or a CAP (see Appendix A), these constituents do not require further evaluation. The maximum concentration of benzo(*a*)pyrene was below its RL (0.89 mg/kg) established in the addendum to the revised final RFI Report (SAIC 2001). The RL for benzo(*a*)pyrene in surface soil has been met; therefore, no further investigation/corrective action is required. In addition, because benzo(*a*)pyrene was not detected above the RL during this initial soil sampling, this sampling event was recommended to represent the final/confirmatory soil sampling, as recommended by the CAP (SAIC 2004).

Groundwater samples were collected from the 13 shallow monitoring wells (MW1, MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW14, MW15, MW16, MW17, and MW18) using a low-flow sampling technique and analyzed for VOCs, SVOCs, and natural attenuation parameters. Five VOCs [1,2-dichloroethene (DCE); benzene; ethylbenzene; toluene; and total xylenes] were estimated or detected in downgradient groundwater at SWMU 27F during the CY 2002 sampling. Of these, only benzene was a site COC in groundwater from the RFI. A RL of 5 µg/L was established in the Phase II RFI. Benzene concentrations continue to exceed the RL and will be remediated under the corrective action proposed in the CAP (SAIC 2004). Nine SVOCs, including three polynuclear aromatic hydrocarbons (acenaphthene, fluorene, and phenanthrene), a phthalate [bis(2-ethylhexyl)phthalate], carbazole, dibenzofuran, naphthalene, 2-methylnaphthalene, and 4-methylphenol were detected or estimated in groundwater during the CY 2002 sampling. Of these, only carbazole was considered a COC in groundwater. A RL of 34.9 µg/L was derived. The MDC of carbazole (4.4 µg/L) was below the approved RL of 34.9 µg/L;

therefore, the corrective action for carbazole has been achieved. 2-Methylnaphthalene was not identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001); however, the maximum detection of 33.4 µg/L was slightly higher than the CY 2001 maximum detection of 31.9 µg/L. In accordance with the protocol for evaluating constituents in groundwater after approval of the RFI report or CAP (Appendix A), a single elevated value requires confirmation of the result during the next groundwater monitoring sampling event before it can be established as a COC requiring the development of a RL; therefore, 2-methylnaphthalene will continue to be monitored under the corrective action proposed in the CAP (SAIC 2004). Naphthalene was not identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001) or the CAP (SAIC 2004); however, the maximum detection of 45.9 µg/L was slightly higher than the CY 2001 maximum detection of 37.2 µg/L. According to the protocol for evaluating constituents in groundwater after approval of the RFI report (Appendix A), a single elevated value requires confirmation of the results during the next groundwater monitoring sampling event. Therefore, naphthalene will continue to be monitored under the corrective action proposed in the CAP (SAIC 2004).

1.5 CALENDAR YEAR 2004 SAMPLING EVENT

Groundwater samples were collected from the 13 shallow monitoring wells (MW1, MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW14, MW15, MW16, MW17, and MW18) using a low-flow sampling technique and analyzed for VOCs, SVOCs, and natural attenuation parameters. The results of this CY 2004 sampling event were presented in the revised final CAP Progress Report for CY 2004 for SWMU 27F dated May 2006 (SAIC 2006) and approved by GA EPD in a letter dated July 10, 2006.

Constituents detected in groundwater during the CY 2004 groundwater sampling event included 5 VOCs and 12 SVOCs. The VOCs were 1,2-DCE; benzene; ethylbenzene; toluene; and total xylenes. The SVOCs were 1,2-dichlorobenzene; 2-methylnaphthalene; 4-methylphenol; acenaphthene; benzoic acid; bis(2-ethylhexyl)phthalate; carbazole; dibenzofuran; fluorene; naphthalene; phenanthrene; and pyrene. Benzene and carbazole have established RLs developed in the Phase II RFI report of 5 and 34.9 µg/L, respectively. The concentration of benzene remains above its RL; therefore, corrective action is not complete for that constituent. The maximum concentration of carbazole (3.1J µg/L) was below its RL (34.9 µg/L) and the maximum concentration detected in the RFI (5.7 µg/L); therefore, corrective action for this constituent is considered complete. Of the remaining constituents, only three, 2-methylnaphthalene, naphthalene, and dibenzofuran, were detected above Region 3 risk-based concentrations (RBCs). Dibenzofuran (1.4 µg/L) was detected only slightly above its U. S. Environmental Protection Agency (EPA) Region 3 RBC (1.22 µg/L) during the CY 2004 sampling event and will be confirmed by the next groundwater sampling event. 2-Methylnaphthalene and naphthalene continue to be sporadically detected at monitoring wells at levels slightly higher than the maximum concentration detected during the RFI and above the Region 3 RBC for tap water. However, the concentrations were not high enough to exceed a hazard index (HI) of 0.1; therefore, 2-methylnaphthalene and naphthalene do not represent a risk to human health.

The data to date indicate that benzene tends to be decreasing or staying relatively constant at low concentrations in most of the monitoring wells. Wells MW9 and MW14 have the most predominant change in concentration. In MW14, benzene has decreased from a concentration of 79.1 µg/L in CY 2000 to 42.9 µg/L in CY 2004. However, in MW9, the benzene concentration has increased from 4.4 µg/L in CY 2002 to 16.4 µg/L in CY 2004.

2-Methylnaphthalene and naphthalene do not presently represent a risk to human health; however, their concentrations are indicating an increasing trend and migration. The location of the maximum concentration

has changed. During the Phase II RFI, the maximum concentrations of 2-methylnaphthalene and naphthalene were detected at MW14. The detected concentration of 2-methylnaphthalene in MW14 in CY 2004 was lower than the detected concentration during the Phase I RFI and in CY 2002, thus indicating a decreasing trend at this location. MW4, a well located slightly side-gradient to the former OWS, has shown a slight increase in the concentration of 2-methylnaphthalene from the Phase II RFI. The concentration was 15.6 µg/L in 2001 and has increased to 33.4 and 33.3 µg/L in CYs 2002 and 2004, respectively. The maximum concentrations of 2-methylnaphthalene and naphthalene remain essentially the same; however, their plume has migrated more to the southwest of the site.

Free product was measured in MW4 and MW12 during the CY 2004 groundwater sampling event. The accumulation of free product is slow and was probably the result of residual contamination in the soil being flushed out.

The updated fate and transport (F&T) modeling indicated that benzene would not impact the nearest receptor location (man-made drainage ditch approximately 450 ft southwest of the site). In addition, the modeling determined that the concentrations of benzene would be reduced to below its RL by natural attenuation processes within approximately 8 years from January 2002, which is a slightly longer timeframe than that predicted in the CAP (i.e., 6.5 years from January 2001). This slight increase in natural attenuation time is primarily due to a decrease in the hydraulic gradient, thereby decreasing the dilution due to advection.

1.6 OIL/WATER SEPARATOR AND PIPE INTEGRITY TESTING MAY 2007

May 7 through 15, 2007, SAIC performed inspection, cleaning, and integrity testing of the OWS and piping associated with the maintenance pad (Building 1390) that is associated with SWMU 27F. A schematic of the OWS and piping is presented in Figure 2. The OWS and piping testing procedures and results were documented in the final Completion Report for the OWS and Piping Evaluation for SWMU 27F dated September 2007 (SAIC 2007). The activities performed are summarized in the following bullets:

- Waste oil, water, and sludge were removed from the OWS and the interior of the OWS was pressure washed. The interior of the OWS was visually inspected. The appurtances within the OWS were inspected with a video camera.

- The end of the waste oil pipeline (Line D on Figure 2) at the removed UST was excavated to determine if it had been properly abandoned during the removal of the waste oil UST.

- Piping from the maintenance pad to the OWS (Line A on Figure 2) and from the OWS to Manhole No. 27 (Line E on Figure 2) was smoke tested, pressure jet cleaned, and video inspected.

- A static water test was performed on the OWS system (including Lines A, C, and E on Figure 2) by plugging the pipe at Manhole No. 27 and filling the OWS with water until water was above the floor drains in each inspection pit.

- The drainage trench (Line B on Figure 2) running along the south side of the maintenance pad was inspected and a static water test was performed.

- The waste oil line (Line D) from the inspection pits to the removed UST was properly abandoned by filling with grout.

The following general conclusions were determined from the OWS and pipe testing conducted in May 2007:

- The abandoned waste oil pipe was not properly abandoned and one opening remained available for potential dumping from the inspection pit (closest to OWS). The end that remained at the waste oil UST was grouted sufficiently to prevent leakage to subsurface at this point. However, potential breaks along the waste oil line from the first inspection pit to the waste oil end could have resulted in waste oil entering the subsurface environment if product continued to be dumped down the unplugged 3-in. pipe in the inspection pit. It should be noted that the portion of the 4-in. waste oil line that was excavated was plugged and in good shape and no soil staining from petroleum products was evident in the excavation. No significant oil was encountered in the pipe when the end of the pipe at the excavation end was cut off. Obviously, the pipe was rusty but the wall thickness of the steel pipe was still structurally sound to accept a compression fitting for grouting. This potential amount of waste oil would have been minimal because product poured into the pipe would have backed up into the maintenance trench.

- The waste oil line was grouted along its full length into where it exited into each maintenance trench. Approximately, a total of 50 gal of excess grout exited the three lines in the inspection pits.

- None of the pipelines passed the low air pressure (5 psi) testing.

- The static water test of the OWS system did not indicate a measurable drop in water over an approximate 16-hr testing period.

- The grated drain trench running along the length of the south side of the maintenance pad has cracks and damage and did not test tight by the static water test. The PVC piping from this grated trench to the OWS has an approximate 4-in. hole at the first 90° elbow.

- Inspection of the interior of the OWS did not indicate any obvious leaks around any of the interior appurtances.

Since the OWS and pipe integrity testing of May 2007, the following activities have been performed and/or scheduled (work order in) to be performed by FSMR DPW at the maintenance pad:

- The trench drain has been grouted flush to the surface down its full length to the OWS to prevent any potential use of the trench drain.

- Metal (aluminum checker plate) covers were installed over the inspection pits to prevent easy excess to the inspection pits and eliminate any potential discharge into the floor drains.

1.7 REPORT ORGANIZATION

The report organization presented in this section provides an outline of the information required by the performance of soil and groundwater monitoring conducted since CY 2004. This report is organized as follows:

- Chapter 1.0: site background, operational history, and summary of Phase I and II RFIs; supplemental sampling for CYs 1998, 1999, and 2001; the CAP; performance soil and groundwater monitoring for CY 2002; groundwater monitoring for CY 2004; and OWS testing and pipe integrity testing of May 2007;

- Chapter 2.0: soil (September 2005) and groundwater (April 2007) sampling and evaluation;
- Chapter 3.0: update of the F&T model;
- Chapter 4.0: conclusions and recommendations; and
- Chapter 5.0: references.

Appendix A contains the protocol approved by GA EPD for establishing RLs after GA EPD has approved the RFI and CAP. Appendix B contains the boring logs for the soil samples collected in September 2005. Appendix C contains the chain-of-custody forms and the analytical results for the soil samples in September 2005 and the groundwater samples collected in April 2007 at SWMU 27F. Appendix D contains the EPA Region 9 preliminary remediation goals (PRGs) for soil and groundwater used during the development of this report (source: http://www.epa.gov/region09/waste/sfund/prg/index.html).

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2.0 SOIL (SEPTEMBER 2005) AND GROUNDWATER SAMPLING (APRIL 2007) AND EVALUATION

2.1 SOIL SAMPLING

A total of 14 soil borings were installed at the SWMU 27F site. Eight borings were installed around the south and east sides of the maintenance pad on approximately 25-ft centers. Two soil borings were installed along the north side of the pad, and four borings were installed downgradient of the soil boring indicating visible contamination. These borings were installed using a Geoprobe rig as described in the SAP (SAIC 1997). One soil sample was collected from each boring. The locations of the soil borings are presented in Figure 6.

The soil analytical samples were sent to an off-site analytical laboratory (General Engineering Laboratory) for benzene, toluene, ethylbenzene, and xylenes (BTEX) and SVOC analysis. Soil samples collected for BTEX analysis were collected using Encore™® sampling devices. A summary of the soil results is presented in Table 3 and discussed in the following sections. The complete analytical results and chain-of-custody forms are presented in Appendix C.

BTEX. BTEX was only detected in subsurface soil samples collected along the southwest side of the covered maintenance pad (Figure 3). No BTEX compounds were detected in subsurface soil located on the north (SB9 and SB10) or southeast side (SB5, SB6, SB7, and SB8) of the covered maintenance pad. All of the detections (SB1, SB2, SB3, SB4, SB11, SB12, SB13, and SB14) of BTEX compounds were located closest along the southwest corner of the covered maintenance pad located nearest to the location of the UST and the abandoned OWS located on the west side of the covered maintenance pad.

All of the concentrations of toluene, ethylbenzene, and total xylenes were detected or estimated below their respective EPA Region 9 soil PRGs. Benzene was detected in 6 of 14 subsurface soil samples at concentrations ranging from 0.0362J mg/kg at SB14 (6 to 8 ft BGS) to 0.864J mg/kg at SB1 (10 to 10 ft BGS). One of the detections of benzene, 0.864J mg/kg at SB1 (10 to 10 ft BGS), was detected slightly above its EPA Region 9 PRG (0.64 mg/kg). In addition, all six of the detected or estimated concentrations of benzene in subsurface soil were above the EPA Region 9 soil screening level (SSL; 0.03 mg/kg), thus indicating the concentrations may result in contaminants migrating to groundwater. In addition, two other locations (SB2 and SB3) had elevated benzene detection levels above the SSL. Benzene was identified as a potential human health and contaminant migration constituent of potential concern (COPC).

SVOCs. Nine SVOCs (eight polyaromatic hydrocarbons and diphenylamine) were detected in subsurface soil. The concentrations of SVOCs followed the same pattern as the BTEX compounds. No SVOCs were detected along the north or southeast side of the maintenance pad. None of the concentrations of SVOCs were detected above EPA Region 9 PRGs or SSLs.

2.2 GROUNDWATER SAMPLING APRIL 2007

Fourteen shallow monitoring wells (MW1, MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW13, MW14, MW15, MW16, MW17, and MW18) at SWMU 27F were low-flow sampled between April 18 and 22, 2007. MW13 was inadvertently not sampled in April and was sampled July 18, 2007. Figure 7 shows the locations of these monitoring wells. MW1 (upgradient) represents the shallow surficial groundwater background well. The groundwater samples were analyzed for VOCs, SVOCs, and natural

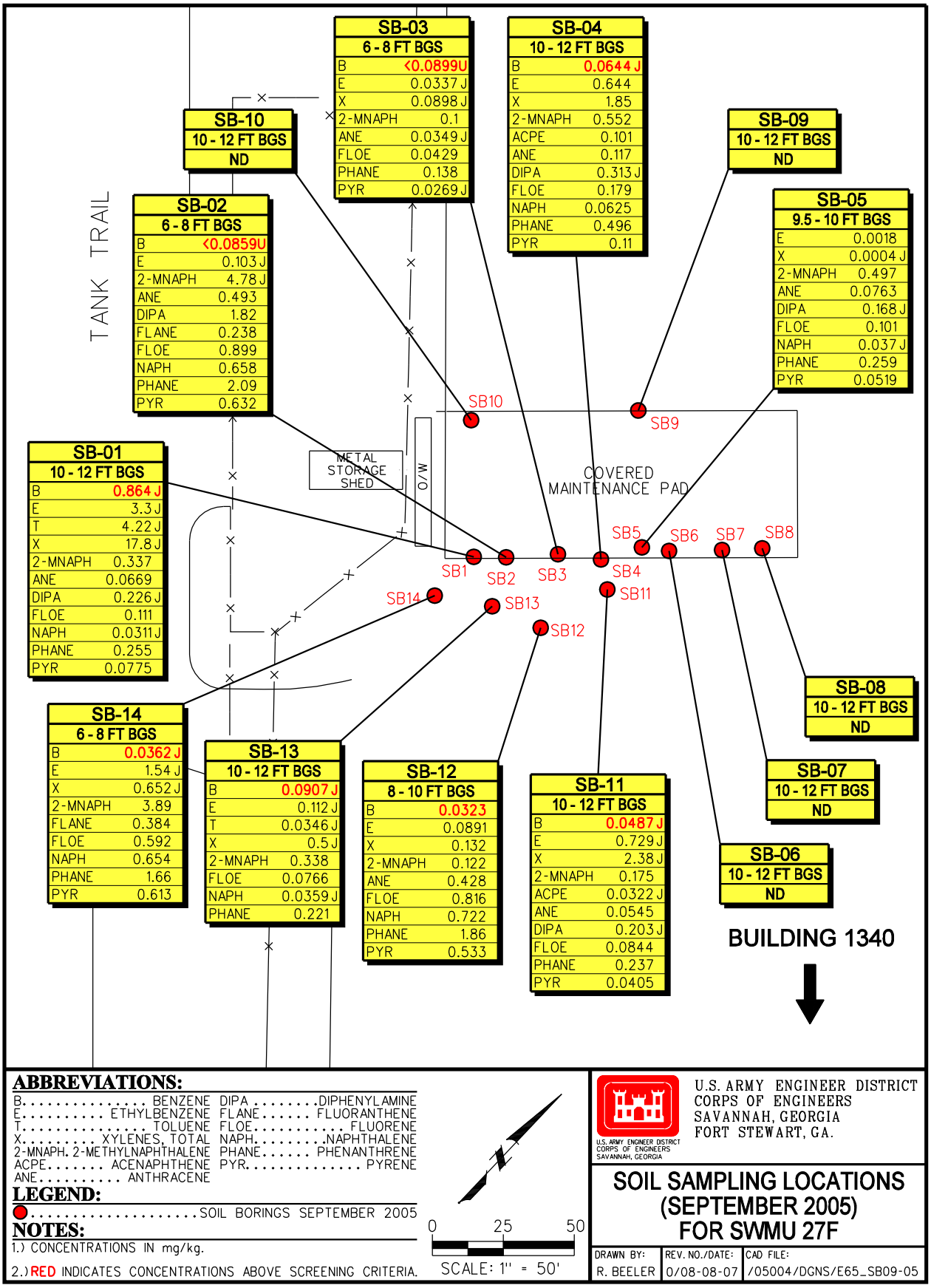

Figure 6. Soil Sample Locations (September 2005) at SWMU 27F, Northwest of Building 1340

Table 3. Summary of Analytes Detected in Subsurface Soils (September 2005), SWMU 27F, Northwest of Building 1340

Station	**EPA Region 9 Res. Soil PRG (HQ =.1, 10E-6)[a]**	**EPA Region 9 Soil Screening Level (DAF = 20)[a]**	**SB-01**	**SB-02**	**SB-03**	**SB-04**	**SB-05**	**SB-06**	**SB-07**
Sample ID			**7J1181**	**7J1281**	**7J1381**	**7J1481**	**7J1581**	**7J1681**	**7J1781**
Date			**09/19/05**	**09/19/05**	**09/16/05**	**09/16/05**	**09/16/05**	**09/19/05**	**09/16/05**
Depth (ft BGS)			**10.0 to 12**	**6.0 to 8.0**	**6.0 to 8.0**	**10.0 to 12**	**9.5 to 10.**	**10.0 to 12**	**10.0 to 12**
Volatile Organics Compounds (mg/kg)									
Benzene	0.64 c	0.03	**0.864 J**	**<0.0859 UJ**	**<0.0899 U**	**0.0644 J**	<0.00096 U	<0.00086 U	<0.00088 U
Ethylbenzene	190 n	13	3.3 J	0.103 J	0.0337 J	0.644 =	0.0018 =	<0.00086 U	<0.00088 U
Toluene	66 n	12	4.22 J	<0.0859 UJ	<0.0899 U	<0.0904 U	<0.00096 U	<0.00086 U	<0.00088 U
Xylenes, Total	27 n	210	17.8 J	<0.0859 UJ	0.0898 J	1.85 =	0.0004 J	<0.00086 U	<0.00088 U
Semivolatile Organics Compounds (mg/kg)									
2-Methylnaphthalene	5.6 n	84[b]	0.337 =	4.78 J	0.1 =	0.552 =	0.497 =	<0.0379 U	<0.0377 U
Acenaphthene	370 n	570	<0.0407 U	<0.0378 U	<0.0378 U	0.101 =	<0.0396 U	<0.0379 U	<0.0377 U
Anthracene	2,200 n	12,000	0.0669 =	0.493 =	0.0349 J	0.117 =	0.0763 =	<0.0379 U	<0.0377 U
Diphenylamine	150 n		0.226 J	1.82 =	<0.378 U	0.313 J	0.168 J	<0.379 U	<0.377 U
Fluoranthene	230 n	4,300	<0.0407 U	0.238 =	<0.0378 U	<0.0368 U	<0.0396 U	<0.0379 U	<0.0377 U
Fluorene	270 n	560	0.111 =	0.899 =	0.0429 =	0.179 =	0.101 =	<0.0379 U	<0.0377 U
Naphthalene	5.6 n	84	0.0311 J	0.658 =	<0.0378 U	0.0625 =	0.037 J	<0.0379 U	<0.0377 U
Phenanthrene	230 n	4,200[c]	0.255 =	2.09 =	0.138 =	0.496 =	0.259 =	<0.0379 U	<0.0377 U
Pyrene	230 n	4,200	0.0775 =	0.632 =	0.0269 J	0.11 =	0.0519 =	<0.0379 U	<0.0377 U

Table 3. Summary of Analytes Detected in Subsurface Soils (September 2005), SWMU 27F, Northwest of Building 1340 (continued)

Station	EPA Region 9 Res. Soil PRG (HQ =.1, 10E-6)[a]	EPA Region 9 Soil Screening Level (DAF = 20)[a]	SB-08	SB-09	SB-10	SB-11	SB-12	SB-13	SB-14
Sample ID			**7J1881**	**7J1981**	**7J1081**	**7J1A81**	**7J1B81**	**7J1C81**	**7J1K81**
Date			**09/15/05**	**09/19/05**	**09/19/05**	**09/19/05**	**09/19/05**	**09/20/05**	**09/20/05**
Depth (ft BGS)			**10.0 to 12**	**10.0 to 12**	**10.0 to 12**	**10.0 to 12**	**8.0 to 10.**	**10.0 to 12**	**6.0 to 8.0**
Volatile Organics Compounds (mg/kg)									
Benzene	0.64 c	0.03	<0.00091 U	<0.001 U	<0.001 U	**0.0487 J**	**0.0323 =**	**0.0907 J**	**0.0362 J**
Ethylbenzene	190 n	13	<0.00091 U	<0.001 U	<0.001 U	0.729 J	0.0891 =	0.112 J	1.54 J
Toluene	66 n	12	<0.00091 U	<0.001 U	<0.001 U	<0.0927 UJ	<0.00089 U	0.0346 J	<0.0844 UJ
Xylenes, Total	27 n	210	<0.00091 U	<0.001 U	<0.001 U	2.38 J	0.132 =	0.5 J	0.652 J
Semivolatile Organics Compounds (mg/kg)									
2-Methylnaphthalene	5.6 n	84[b]	<0.0375 U	<0.0395 U	<0.0419 U	0.175 =	0.122 =	0.338 =	3.89 =
Acenaphthene	370 n	570	<0.0375 U	<0.0395 U	<0.0419 U	0.0322 J	<0.038 U	<0.0382 U	<0.0377 U
Anthracene	2,200 n	12,000	<0.0375 U	<0.0395 U	<0.0419 U	0.0545 =	0.428 =	<0.0382 U	<0.0377 U
Diphenylamine	150 n		<0.375 U	<0.395 U	<0.419 U	0.203 J	<0.38 U	<0.382 U	<0.377 U
Fluoranthene	230 n	4,300	<0.0375 U	<0.0395 U	<0.0419 U	<0.0377 U	<0.038 U	<0.0382 U	0.384 =
Fluorene	270 n	560	<0.0375 U	<0.0395 U	<0.0419 U	0.0844 =	0.816 =	0.0766 =	0.592 =
Naphthalene	5.6 n	84	<0.0375 U	<0.0395 U	<0.0419 U	<0.0377 U	0.722 =	0.0359 J	0.654 =
Phenanthrene	230 n	4,200[c]	<0.0375 U	<0.0395 U	<0.0419 U	0.237 =	1.86 =	0.221 =	1.66 =
Pyrene	230 n	4,200	<0.0375 U	<0.0395 U	<0.0419 U	0.0405 =	0.533 =	<0.0382 U	0.613 =

[a] EPA Region 9 PRGs: http://www.epa.gov/region09/waste/sfund/prg/index.html (Appendix D).
[b] EPA soil screening level for naphthalene used for 2-methylnaphthalene.
[c] EPA soil screening level for pyrene used for phenanthrene.
BGS = Below ground surface.
c = Carcinogen.
DAF = Dilution attenuation factor.
EPA = U. S. Environmental Protection Agency.
HQ = Hazard quotient.
n = Non-carcinogen.
PRG = Preliminary remediation goal.
SWMU = Solid waste management unit.
Bold denotes concentrations above screening criteria.
Qualifiers:
J = Estimated value.
U = Undetected value.
"=" = Detected value.

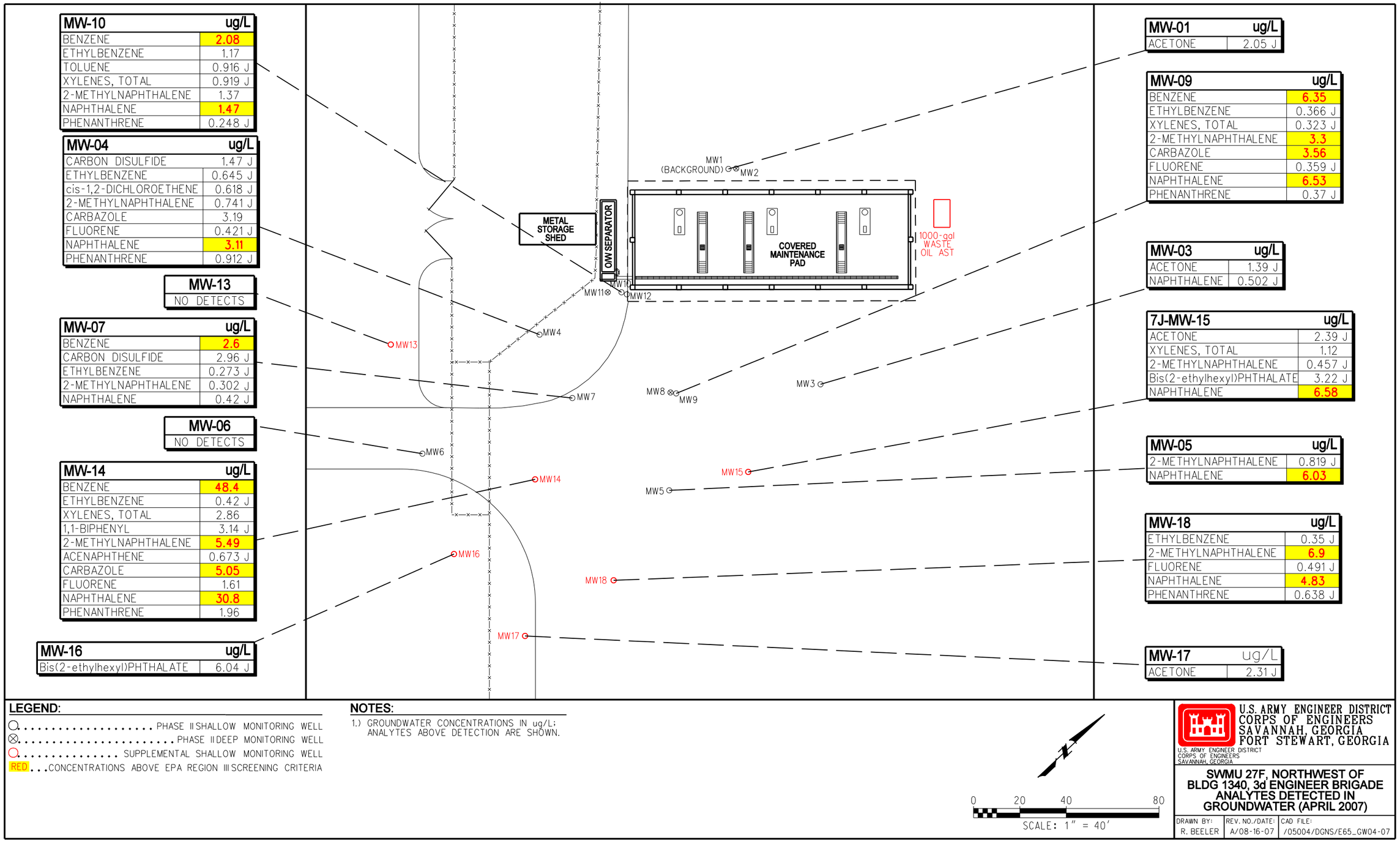

Figure 7. Analytes Detected in Groundwater (April 2007) at SWMU 27F, Northwest of Building 1340

attenuation parameters. SVOCs were included because they were detected in groundwater [but below EPA Region 3 RBCs (regulatory criteria approved for the RFI; EPA 2002)] and because they are characteristic of the material or waste oil disposed of at the removed UST and now-abandoned OWS, the presumed source of the contamination.

Conductivity, pH, temperature, dissolved oxygen, and oxidation-reduction potential were measured during well purging for the collection of all groundwater samples. Table 4 summarizes the field data collected during the groundwater sampling at SWMU 27F. Measurements of water levels were taken at all of the monitoring wells. Water level measurements and groundwater elevations are presented in Table 5. Free product was measured in MW12 and MW4 using a free product level meter.

Table 4. Field Parameter Measurements During Groundwater Sampling (April 2007), SWMU 27F, Northwest of Building 1340

Location	Date	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTUs)	DO (mg/L)	Redox (mV)
MW1	04/22/07	4.51	0.063	26.82	9.60	1.36	215
MW3	04/19/07	6.66	0.049	23.85	14.30	1.65	397
MW4	04/18/07	4.60	0.084	21.19	5.16	0.28	161
MW5	04/19/07	4.05	0.063	23.23	8.99	0.25	191
MW6	04/20/07	5.73	0.056	20.42	8.90	3.92	416
MW7	04/18/07	4.41	0.071	23.60	8.01	0.62	361
MW9	04/18/07	4.07	0.060	24.01	6.83	0.40	188
MW10	04/18/07	4.20	0.072	21.45	11.80	0.22	141
MW13[a]	07/18/07	4.56	0.088	25.67	5.37	0.38	210
MW14	04/20/07	4.19	0.074	22.05	4.30	0.88	425
MW15	04/22/07	4.25	0.057	26.18	9.70	0.38	276
MW16	04/22/07	5.12	0.097	24.16	8.90	1.89	262
MW17	04/20/07	4.04	0.073	21.00	3.60	0.24	484
MW18	04/22/07	4.35	0.057	23.45	5.50	0.39	159

[a] Well inadvertently not sampled in April 2007. Well sampled in July 2007 to meet recommendations of the Corrective Action Plan Progress Report for Calendar Year 2004 (SAIC 2006).
DO = Dissolved oxygen.
NTU = Nephelometric turbidity unit.
Redox = Oxidation-reduction potential.
s.u. = Standard unit.
SWMU = Solid waste management unit.

2.3 GROUNDWATER SURFACE ELEVATIONS AND DIRECTION

The water level measurements (see Table 5) from the monitoring wells were used to develop shallow and deep groundwater potentiometric maps for SWMU 27F. Figures 8 and 9 present the groundwater elevations and the potentiometric map for the shallow and deep surficial groundwater, respectively. The shallow and deep surficial groundwater flow was primarily to the south/southeast, with an average horizontal hydraulic gradient of 0.0007 and 0.0014 ft/ft, respectively.

Table 5. Water Level Data for Monitoring Wells (April 2007), SWMU 27F, Northwest of Building 1340

Well	Date	Screened Interval (ft BGS)	Depth to Water (ft below MP)	Elevation of Measuring Point (ft AMSL)	Elevation of Potentiometric Surface (ft AMSL)
MW1	04/18/07	9.30 - 19.30	8.67	69.16	60.49
MW2	04/18/07	28.80 - 38.80	8.79	69.27	60.48
MW3	04/18/07	10.40 - 20.40	8.02	68.45	60.43
MW4	04/18/07	5.90 - 15.90	7.65	68.02	60.37
MW5[a]	04/18/07	8.80 - 18.80	7.06[a]	67.99	60.93
MW6	04/18/07	8.70 - 18.70	7.53	67.88	60.35
MW7	04/18/07	10.00 - 20.00	7.76	68.14	60.38
MW8	04/18/07	30.90 - 40.90	7.99	68.34	60.35
MW9	04/18/07	10.30 - 20.30	8.06	68.46	60.40
MW10	04/18/07	11.00 - 21.00	8.25	68.70	60.45
MW11	04/18/07	29.40 - 39.40	8.24	68.66	60.42
MW12[b]	04/18/07	5.00 - 9.70	7.97[b]	68.74	60.77
MW13	04/18/07	4.10 - 14.10	6.92	67.26	60.34
MW14	04/18/07	2.90 - 12.90	7.40	67.76	60.36
MW15	04/18/07	3.80 - 13.80	7.60	68.03	60.43
MW16[c]	04/22/07	5.0 - 15.0	7.51[c]	67.64	60.13
MW17	04/18/07	4.90 - 14.90	7.71	69.08	61.37
MW18	04/18/07	4.90 - 14.90	7.12	67.49	60.37

[a] Groundwater level not used in development of potentiometric map.
[b] MW12 was installed to collect free product. Elevation not used for development of potentiometric map.
[c] Due to lack of accessibility on April 18,2007, water level recorded during sampling (April 22, 2007). Elevation not used for development of potentiometric map.
AMSL = Above mean sea level.
BGS = Below ground surface.
MP = Measuring point (top of casing).
SWMU = Solid waste management unit.

2.4 FREE PRODUCT MEASUREMENTS

No free product was detected in any of the wells. Free product has been sporadically indicated in MW12 and is believed to be residual soil contamination from either overflows from the adjacent OWS and/or the removed waste oil UST. Small quantities of heavy petroleum products are trapped within the soil matrix and are slowly migrating to groundwater with time.

2.5 GROUNDWATER ANALYTICAL RESULTS

The results from the chemical analysis of groundwater are presented in Table 6 and Figure 7. The complete analytical results and chain-of-custody forms are presented in Appendix C. SRCs in groundwater were determined using the protocol discussed in Chapter 5.0 of the revised final Phase II RFI Report (SAIC 2000). Organic constituents were identified as SRCs if they were simply detected (because organic constituents are generally from anthropogenic sources).

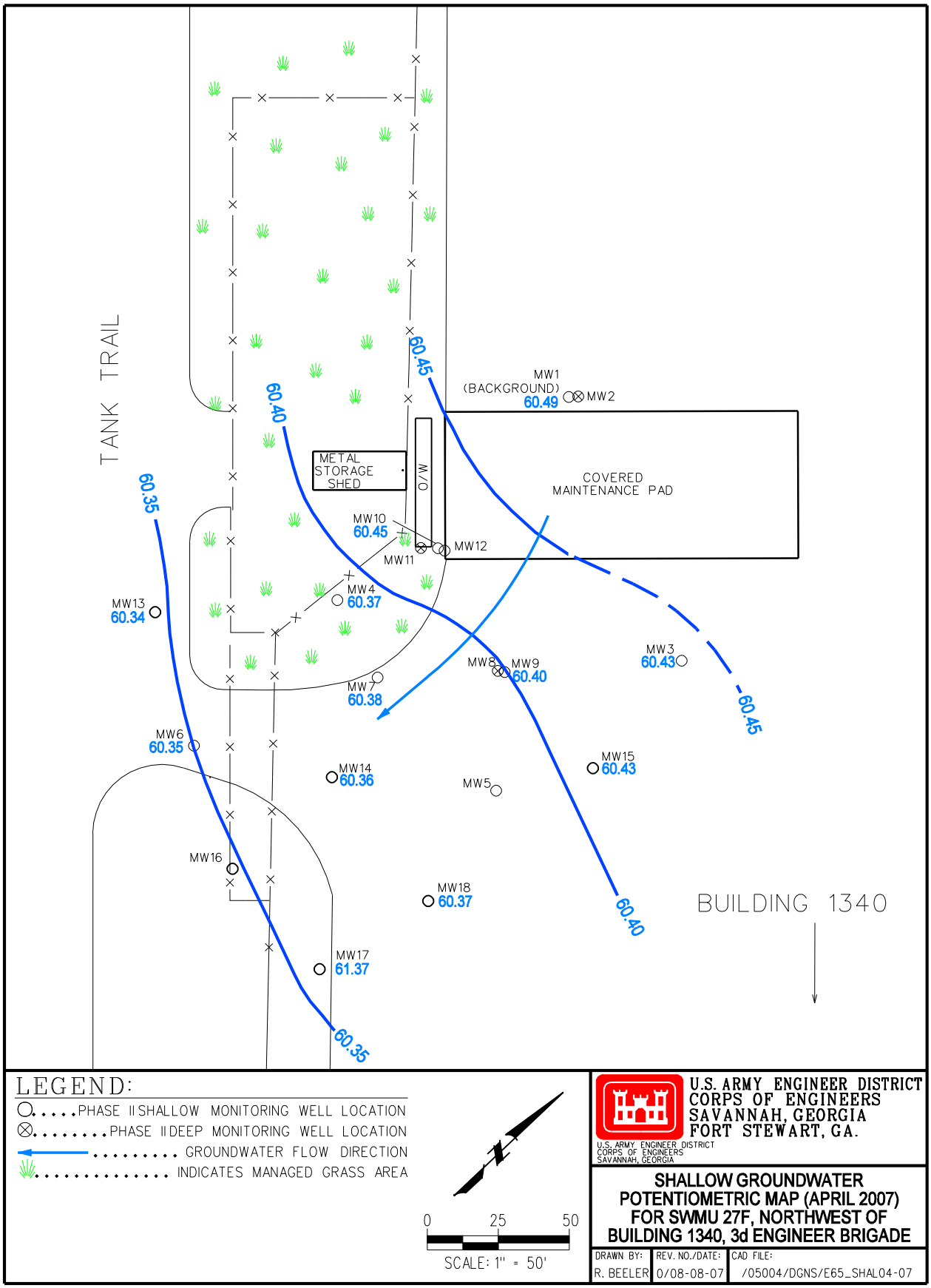

Figure 8. Groundwater Potentiometric Surface Map for Shallow Wells for April 2007, SWMU 27F, Northwest of Building 1340

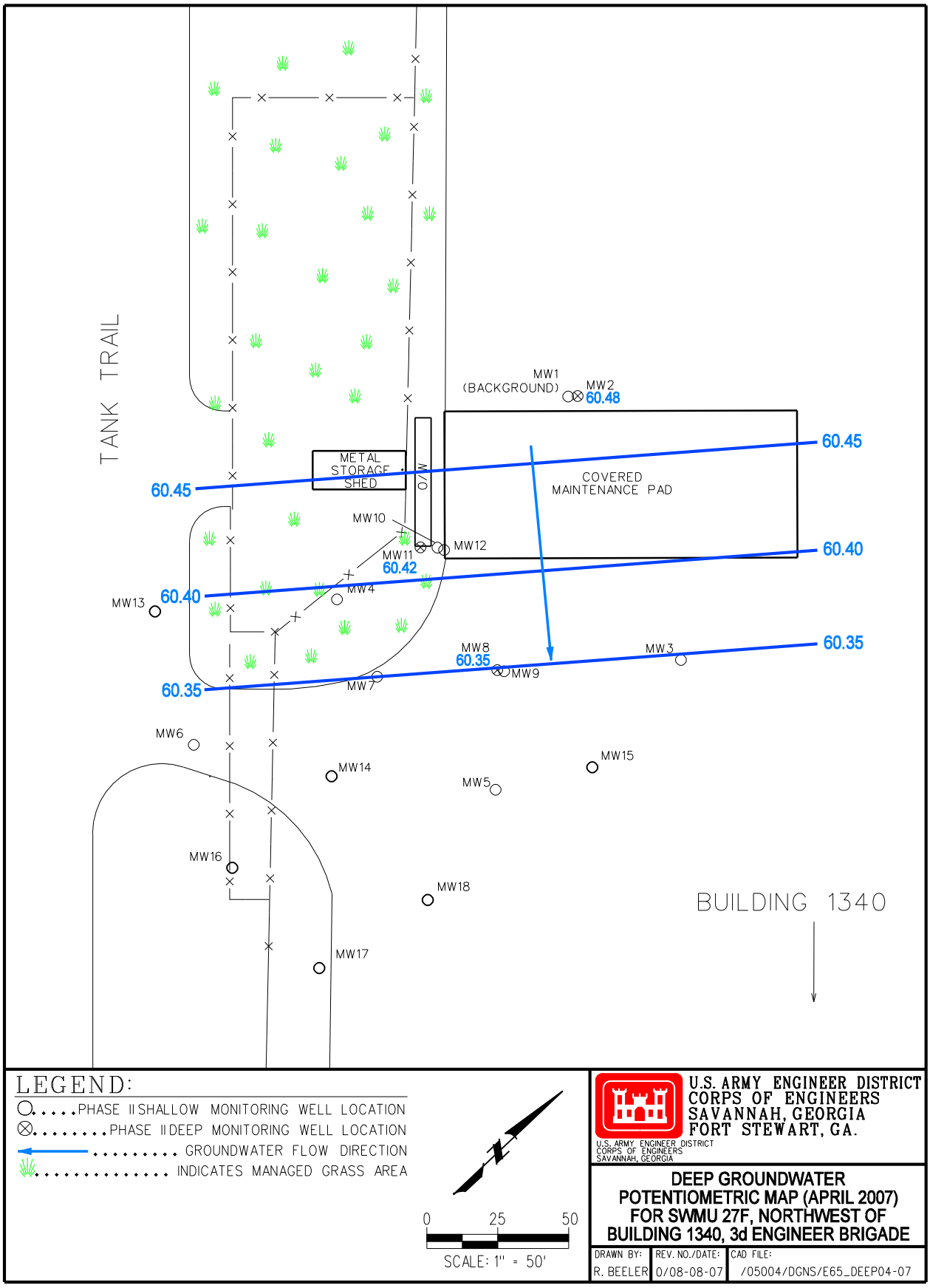

Figure 9. Groundwater Potentiometric Surface Map for Deep Wells for April 2007, SWMU 27F, Northwest of Building 1340

Table 6. Summary of Analytes Detected in Groundwater (April 2007), SWMU 27F, Northwest of Building 1340

Station	Remedial Level from RFI	EPA Region 9 Tap Water PRG (HQ=.1,10E-6)[a]	Federal MCL[b]	MW-01 Background Location	MW-03	MW-04	MW-05	MW-06	MW-07	MW-09
Sample ID				**7J4178**	**7J4378**	**7J4478**	**7J4578**	**7J4678**	**7J4778**	**7J4978**
Date				**04/22/07**	**04/19/07**	**04/18/07**	**04/19/07**	**04/20/07**	**04/18/07**	**04/18/07**
Volatile Organic Compounds (µg/L)										
Acetone		550 n		2.05 J	1.39 J	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	5	0.35 c	5	<1 U	<1 U	<1 U	<1 U	<1 U	**2.6 =**	**6.35 =**
Carbon Disulfide		100 n		<5 U	<5 U	1.47 J	<5 U	<5 U	2.96 J	<5 U
Ethylbenzene		130 n	700	<1 U	<1 U	0.645 J	<1 U	<1 U	0.273 J	0.366 J
Toluene		72 n	1,000	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Xylenes, Total		21 n	10,000	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.323 J
cis-1,2-Dichloroethene		6.1 n	70	<1 U	<1 U	0.618 J	<1 U	<1 U	<1 U	<1 U
Semivolatile Organic Compounds (µg/L)										
1,1-Biphenyl		30 n		<10 U	<9.52 UJ	<9.43 U	<9.52 U	<9.35 U	<9.52 U	<9.01 U
2-Methylnaphthalene[c]		0.62 n		<1 U	<0.952 UJ	**0.741 J**	**0.819 J**	<0.935 U	0.302 J	**3.3 =**
Acenaphthene		37 n		<1 U	<0.952 UJ	<0.943 U	<0.952 U	<0.935 U	<0.952 U	<0.901 U
Bis(2-ethylhexyl)phthalate		4.8 c	6	<10 U	<9.52 UJ	<9.43 U	<9.52 U	<9.35 U	<9.52 U	<9.01 U
Carbazole	34.9	3.4 c		<1 U	<0.952 UJ	3.19 =	<0.952 U	<0.935 U	<0.952 U	**3.56 =**
Fluorene		24 n		<1 U	<0.952 UJ	0.421 J	<0.952 U	<0.935 U	<0.952 U	0.359 J
Naphthalene		0.62 n		<1 U	0.502 J	**3.11 =**	**6.03 =**	<0.935 U	0.42 J	**6.53 =**
Phenanthrene[d]		18 n		<1 U	<0.952 UJ	0.912 J	<0.952 U	<0.935 U	<0.952 U	0.37 J
Metals (µg/L)										
Iron		1,100 n		**2,540 =**	895 =	**6,280 =**	617 =	226 =	**7,600 =**	392 =
Anions (µg/L)										
Nitrate		1,000 n	10,000	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Sulfate				1510 =	650 =	1,030 =	494 =	643 =	<400 U	3,410 =
Miscellaneous (µg/L)										
Carbon Dioxide				<1,000 U	105,000 =	364,000 =	110,000 =	36,500 =	<1,000 U	<1,000 U
Methane				13 J	21.2 J	92.5 =	20.4 J	11.9 J	68.4 =	113 =

Table 6. Summary of Analytes Detected in Groundwater (April 2007), SWMU 27F, Northwest of Building 1340 (continued)

Station	Remedial Level from RFI	EPA Region 9 Tap Water PRG (HQ=.1, 10E-6)[a]	Federal MCL[b]	MW-10	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18
Sample ID				**7J4A78**	**7J4D78**	**7J4E78**	**7J4F78**	**7J4G78**	**7J4H78**	**7J4J78**
Date				**04/18/07**	**07/18/07**	**04/20/07**	**04/22/07**	**04/22/07**	**04/20/07**	**04/22/07**
Volatile Organic Compounds (µg/L)										
Acetone		550 n		<5 U	<1.31 U	<5 U	2.39 J	<5 U	2.31 J	<5 U
Benzene	5	0.35 c	5	**2.08 =**	<1 U	**48.4 =**	<1 U	<1 U	<1 U	<1 U
Carbon Disulfide		100 n		<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Ethylbenzene		130 n	700	1.17 =	<1 U	0.42 J	<1 U	<1 U	<1 U	0.35 J
Toluene		72 n	1,000	0.916 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Xylenes, Total		21 n	10,000	0.919 J	<1 U	2.86 =	1.12 =	<1 U	<1 U	<1 U
cis-1,2-Dichloroethene		6.1 n	70	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Semivolatile Organic Compounds (µg/L)										
1,1-Biphenyl		30 n		<9.62 U	<9.9 U	3.14 J	<10 U	<10 U	<9.35 U	<9.35 U
2-Methylnaphthalene[c]		0.62 n		1.37 =	<0.99 U	**5.49 =**	0.457 J	<1 U	<0.935 U	**6.9 =**
Acenaphthene		37 n		<0.962 U	<0.99 U	0.673 J	<1 U	<1 U	<0.935 U	<0.935 U
Bis(2-ethylhexyl)phthalate		4.8 c	6	<9.62 U	<9.9 U	<9.35 U	3.22 J	**6.04 J**	<9.35 U	<9.35 U
Carbazole	34.9	3.4 c		<0.962 U	<0.99 U	**5.05 =**	<1 U	<1 U	<0.935 U	<0.935 U
Fluorene		24 n		<0.962 U	<0.99 U	1.61 =	<1 U	<1 U	<0.935 U	0.491 J
Naphthalene		0.62 n		**1.47 =**	<0.99 U	**30.8 =**	**6.58 =**	<1 U	<0.935 U	**4.83 =**
Phenanthrene[d]		18 n		0.248 J	<0.99 U	1.96 =	<1 U	<1 U	<0.935 U	0.638 J
Metals (µg/L)										
Iron		1,100 n		**1,760 =**	325 =	**1,600 =**	507 =	**1,350 =**	190 =	**2,590 =**
Anions (µg/L)										
Nitrate		1,000 n	10,000	<100 U	**2,160 =**	<100 U	153 =	131 =	499 =	276 =
Sulfate				374 J	3,360 =	1,820 =	614 =	11,500 =	2,930 =	3,510 =
Miscellaneous (µg/L)										
Carbon Dioxide				<1,000 U	80,800 =	80,000 =	<725 U	110,000 =	37,300 =	180,000 =
Methane				112 =	<25 U	309 =	70.3 =	<25 U	6.27 J	283 =

[a] EPA Region 9 PRGs: http://www.epa.gov/region09/waste/sfund/prg/index.html (Appendix D).
[b] National Primary Drinking Water Regulations 40 *Code of Federal Regulations* 141 (7/01/2002) http://www.epa.gov/safewater/contaminants/index.html#primary.
[c] EPA soil screening level for naphthalene used for 2-methylnaphthalene.
[d] EPA soil screening level for pyrene used for phenanthrene.
Bold denotes concentrations above screening criteria.
c = Carcinogen.
EPA = U. S. Environmental Protection Agency.
HQ = Hazard quotient.
MCL = Maximum contaminant level.
n = Non-carcinogen.
PRG = Preliminary remediation goal.
RFI = Resource Conservation and Recovery Act facility investigation.
SWMU = Solid waste management unit.
Qualifiers:
J = Estimated value.
U = Undetected value.
"=" = Detected value.

VOCs. Seven VOCs (acetone, benzene, carbon disulfide, ethylbenzene, toluene, total xylenes, and *cis*-1,2-DCE) were estimated or detected in groundwater at SWMU 27F in the April 2007 sampling. Benzene, ethylbenzene, and/or total xylenes were detected in seven wells (MW4, MW7, MW9, MW10, MW14, MW15, and MW18). No VOCs were detected in MW5, MW6, or MW16. Of the seven VOCs detected, only benzene was detected above its EPA Region 9 PRG.

Acetone was detected or estimated in 4 of 14 groundwater samples at concentrations ranging from 1.39J µg/L at MW3 to 2.39 µg/L at MW15. Acetone was also detected (2.05 µg/L) in MW1, the shallow site-specific background location.

Cis-1,2-DCE was estimated in one downgradient groundwater sample at a concentration of 0.618J µg/L at MW4.

Benzene was detected or estimated in 4 of 14 groundwater samples at concentrations ranging from 2.08 µg/L at MW10 to 48.4 µg/L at MW14. All of the detected concentrations of benzene were above the EPA Region 9 PRG (0.35 µg/L). Benzene was detected above its MCL (5 µg/L) at two wells: MW9 (6.35 µg/L) and MW14 (48.4 µg/L).

Carbon disulfide was detected in 2 of 14 groundwater samples at a concentration of 1.47 µg/L in MW4 and 2.96 µg/L in MW7.

Ethylbenzene was detected or estimated in 6 of 14 groundwater samples. The concentrations of ethylbenzene in the shallow aquifer ranged from 0.273J µg/L at MW7 to 1.17 µg/L at wells MW10.

Toluene was estimated in 1 of 14 groundwater samples at a concentration of 0.916J µg/L at MW10.

Total xylenes were detected in 4 of 14 groundwater samples at concentrations ranging from 0.323J µg/L at MW9 to 2.86 µg/L at MW14.

Acetone; benzene; carbon disulfide; ethylbenzene; toluene; total xylenes; and *cis*-1,2-DCE are considered to be SRCs from the April 2007 groundwater sampling.

SVOCs. Eight SVOCs [1,1-biphenyl; 2-methylnaphthalene; acenaphthene; bis(2-ethylhexyl)phthalate; carbazole; fluorene; naphthalene; and phenanthrene] were detected or estimated in groundwater during the April 2007 sampling.

1,1-Biphenyl was estimated at a concentration of 3.14J µg/L at MW14.

2-Methylnaphthalene was estimated or detected in 8 of 14 groundwater samples at concentrations ranging from 0.302 µg/L at MW7 to 6.9 µg/L at MW18. There is no EPA Region 9 PRG for 2-methylnaphthalene; therefore, the EPA Region 9 PRG for naphthalene was used as a surrogate for 2-methylnaphthalene. Six of the eight detected concentrations of 2-methylnaphthalene were detected above its EPA Region 9 PRG (0.62 µg/L).

Acenaphthene was estimated at a concentration of 0.673J µg/L at MW14.

Bis(2-ethylhexyl)phthalate was estimated in 2 of 14 groundwater samples at concentration of 3.22J µg/L at MW15 and 6.04J µg/L at MW16. One of the two detected concentrations of bis(2-ethylhexyl)phthalate was detected above its EPA Region 9 PRG (4.8 µg/L).

Carbazole was detected in 3 of 14 groundwater samples at concentrations of 3.19 µg/L at MW4, 3.56 µg/L at MW9, and 5.05 µg/L at MW14. Two of the three detected concentrations of carbazole were detected above its EPA Region 9 PRG (3.4 µg/L). None of the concentrations were detected above the RL (34.9 µg/L) established in the CAP (SAIC 2004).

Fluorene was detected or estimated in 4 of 14 groundwater samples at concentrations ranging from 0.359J µg/L at MW9 to 1.61 µg/L at MW14.

Naphthalene was detected or estimated in 9 of 14 groundwater samples at concentrations ranging from 0.42J µg/L at MW7 to 30.8 µg/L at MW14. Seven of the nine detected concentrations of naphthalene were detected above its EPA Region 9 PRG (0.62 µg/L).

Phenanthrene was detected or estimated in 5 of 14 groundwater samples at concentrations ranging from 0.248J µg/L at MW10 to 1.96 µg/L at MW14.

SVOCs were not detected in MW1 (site-specific background location), MW6, or MW17.

All eight of the SVOCs detected in groundwater during the April 2007 sampling [1,1-biphenyl; 2-methylnaphthalene; acenaphthene; bis(2-ethylhexyl)phthalate; carbazole; fluorene; naphthalene; and phenanthrene] are considered to be SRCs from the CY 2007 groundwater sampling.

Natural Attenuation Parameters. The groundwater samples were analyzed for the following natural attenuation parameters during April 2007 sampling: iron, sulfate, sulfide, carbon dioxide, nitrate, nitrite, and methane. Biological degradation of petroleum contaminants (i.e., benzene, toluene, ethylbenzene, and xylenes) involves biologically mediated oxidation-reduction reactions consisting of aerobic heterotrophic respiration, denitrification, manganese (IV) reduction, iron (III) reduction, sulfate reduction, and methanogenesis (Wiedemeier 1997). Therefore, the measurement of geochemical parameters associated with these processes is an indicator that attenuation/biological degradation is occurring. Oxygen, nitrate, iron (III), manganese (IV), sulfate, and carbon dioxide are electron acceptors in the oxidation-reduction process.

Iron, the only metal analyzed, was detected in all 14 groundwater samples at concentrations ranging from 190 µg/L at MW17 to 7,600 µg/L at MW7. The concentrations at MW1 (2,540 µg/L), MW4 (6,280 µg/L), MW7 (7,600 µg/L), MW10 (1,760 µg/L), MW14 (1,600 µg/L), MW16 (1,350 µg/L), and MW18 (2,590 µg/L) exceed the EPA Region 9 PRG of 1,100 µg/L (Table 5). Iron was also detected in the site-specific background location (MW1) above its EPA Region 9 PRG. Iron is an essential nutrient. In addition, ferrous iron in relation to total iron may be used to indicate if anaerobic degradation is occurring due to the depletion of oxygen, nitrate, and manganese. Ferrous iron is produced from the biological degradation of ferric iron.

Sulfate was detected or estimated in 13 of 14 groundwater samples at concentrations ranging from 374J µg/L at MW10 to 11,500 µg/L at MW16. Sulfate was also detected in the site-specific background location (MW1) at a concentration of 1,510 µg/L. Sulfate is the second (after nitrate) electron acceptor used after oxygen is depleted. Sulfide is produced when sulfate is used as an electron acceptor for anaerobic microbial respiration.

Carbon dioxide was detected in 9 of 14 groundwater samples at concentrations ranging from 36,500 µg/L at MW6 to 364,000 µg/L at MW4. Carbon dioxide is a measure of the level of bioactivity in the groundwater under aerobic respiration and is an electron acceptor under methanogenesis.

Methane was detected in 12 of 14 groundwater samples at concentrations ranging from 6.27 µg/L at MW17 to 309 µg/L at MW14. Methane was also estimated in the site-specific background location (MW1) at a concentration of 13J µg/L. The presence of methane suggests biodegradation of organic carbon via methanogenesis. Methanogenesis only occurs after oxygen, iron, manganese, nitrate, and sulfate have been depleted as electron acceptors.

Nitrate was detected in 5 of 14 groundwater samples at concentrations ranging from 131 µg/L at MW16 to 2,160 µg/L at MW13. The nitrate concentration at MW13 was greater than the EPA Region 9 PRG (1,000 µg/L). Nitrate is an essential nutrient for biological degradation and is the first electron acceptor used after oxygen is depleted.

Nitrite and sulfide were not detected in any of the groundwater samples at a detection limit of <100 µg/L. Nitrite is a degradation product of nitrate. Sulfide is produced when sulfate is used as an electron acceptor for anaerobic microbial respiration.

2.6 GROUNDWATER ANALYSIS

2.6.1 April 2007 Groundwater Data

The analysis of the groundwater analytical data presented in this section followed the protocol and decision flowchart approved by GA EPD for evaluating SRCs identified in groundwater collected after the establishment of RLs through either an RFI report and/or a CAP (Appendix A). SRCs in groundwater from the April 2007 sampling event included seven VOCs and eight SVOCs. The VOCs were acetone; benzene; carbon disulfide; ethylbenzene; toluene; total xylenes; and *cis*-1,2-DCE. The SVOCs were 1,1-biphenyl; 2-methylnaphthalene; acenaphthene; bis(2-ethylhexyl)phthalate; carbazole; fluorene; naphthalene; and phenanthrene. The results of the SRC evaluation are summarized in Table 7 and are discussed below.

Acetone. Acetone was not previously detected in groundwater. Acetone was detected below its Region 9 PRG (550 µg/L); therefore, no further evaluation is required.

Benzene. Benzene was identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001) and the CAP (SAIC 2004). A RL of 5 µg/L was established in the Phase II RFI. Benzene concentrations continue to exceed the RL at two locations and will continue to be remediated under the corrective action proposed in the CAP (SAIC 2004).

Ethylbenzene. Ethylbenzene was detected below the concentration of the maximum concentration detected in the Phase II RFI and the EPA Region 9 PRG (130 µg/L); therefore, no further evaluation is required.

Toluene. Toluene was not previously detected in groundwater. Toluene was detected below its Region 9 PRG (72 µg/L); therefore, no further evaluation is required.

Total Xylenes. Total xylenes were detected below the concentration of the maximum concentration detected in the Phase II RFI and EPA Region 9 PRG (21 µg/L); therefore, no further evaluation is required.

***Cis*-1,2-DCE.** *Cis*-1,2-DCE was not previously detected in groundwater. *Cis*-1,2-DCE was detected below its Region 9 PRG (6.1 µg/L); therefore, no further evaluation is required.

Table 7. Evaluation of Site-Related Constituents in Groundwater, SWMU 27F, Northwest of Building 1340

Analyte	Maximum Detect from RFI	Maximum Detect 2007	Station at Maximum Detect 2007	EPA Region 9 PRG Tap Water	Maximum Detect >PRG	Present Remedial Level	New COC?	Justification
Volatile Organic Compounds (µg/L)								
Acetone	ND	2.39	MW15	550	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Benzene	61	48.4	MW14	0.35	Yes	5	No	Remedial level exists. Continue remediation proposed in CAP
Carbon Disulfide	ND	2.96	MW7	100	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Ethylbenzene	7	1.17	MW10	130	No	None[a]	No	Concentration below previous maximum from RFI; therefore, no further evaluation is required
Toluene	ND	0.916	MW10	72	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Xylenes, Total	38.5	2.86	MW14	21	No	None[a]	No	Concentration below previous maximum from RFI; therefore, no further evaluation is required
Cis-1,2-DCE	ND	0.618	MW4	6.1	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Semivolatile Organic Compounds (µg/L)								
1,1-Biphenyl	ND	3.14	MW14	30	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
2-Methylnaphthalene	31.9	6.9	MW18	0,62	Yes	None[a]	No	Concentration below previous maximum from RFI. Groundwater will be monitored as part of corrective action
Acenaphthene	ND	0.673	MW14	37	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Bis(2-ethylhexyl)phthalate	ND	6.04	MW16	4.8	Yes	None	Yes	Concentration above previous maximum and slightly exceeds EPA Region 9 PRG. Groundwater will be monitored as part of corrective action

Table 7. Evaluation of Site-Related Constituents in Groundwater, SWMU 27F, Northwest of Building 1340 (continued)

Analyte	Maximum Detect from RFI	Maximum Detect 2007	Station at Maximum Detect 2007	EPA Region 9 PRG Tap Water	Maximum Detect >PRG	Present Remedial Level	New COC?	Justification
Carbazole	5.7	5.05	MW14	3.4	Yes	34.9	No	Concentration below previous maximum and remedial level established in the RFI. Therefore, no further action required
Fluorene	2.1	1.61	MW14	24	No	None[a]	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required
Naphthalene	37.2	30.8	MW14	0.62	Yes	None[a]	No	Concentration below previous maximum. Groundwater will be monitored as part of corrective action
Phenanthrene	ND	1.96	MW14	18	No	None	No	Concentration above previous maximum; however, concentration does not exceed EPA Region 9 PRG. Therefore, no further action required

[a]No remedial level was established in the Phase II RFI because the human health baseline risk assessment indicated that the calculated risk was below the incremental lifetime cancer risk of 1×10^{-6} and the hazard index of 1.0; therefore, the constituent was not a risk driver and was dismissed.

CAP = Corrective Action Plan.
COC = Constituent of concern.
DCE = Dichloroethene.
EPA = U. S. Environmental Protection Agency.
ND = Not detected.
PRG = Preliminary remediation goal.
RFI = Resource Conservation and Recovery Act (RCRA) facility investigation.
SRC = Site-related constituent.
SWMU = Solid waste management unit.

1,1-Biphenyl. 1,1-Biphenyl was detected above its previous maximum concentration detected in the Phase II RFI. However, it was not detected above its EPA Region 9 PRG (30 µg/L); therefore, no further evaluation is required.

2-Methylnaphthalene. 2-Methylnaphthalene was not identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001); however, 2-methylnaphthalene was identified as a COPC but was dismissed during the baseline human health risk assessment (BHHRA) because the calculated risk for a concentration of 31.9 µg/L was below the HI of 0.1 for the following receptors: future on- and off-site installation worker, resident child or resident adult, and future on-site trespasser juvenile (SAIC 2001). The maximum concentration (6.9 µg/L) detected in April 2007 is an order of magnitude below this concentration. 2-Methylnaphthalene does not represent a carcinogenic risk. During the April 2007 sampling, the maximum detection of 2-methynaphthalene (6.9 µg/L) was an order of magnitude below the maximum concentration (31.9 µg/L) detected in the Phase II RFI; therefore, no further evaluation is required. The concentration of 2-methylnaphthalene will continue to be monitored under the corrective action proposed in the CAP.

Acenaphthene. Acenaphthene was not previously detected in groundwater. Acenaphthene was detected below its Region 9 PRG (37 µg/L); therefore, no further evaluation is required.

Bis(2-ethylhexyl)phthalate. Bis(2-ethylhexyl)phthalate was detected in groundwater during the Phase II RFI (November 1999) and identified as a HHCOC in the Phase II RFI (SAIC 2001). However, it was believed to be due to field sampling (particulates in groundwater) or analytical laboratory contamination. Bis(2-ethylhexyl)phthalate was not detected in subsequent sampling rounds and was eliminated as a COC in groundwater during supplemental sampling for the CAP (SAIC 2004). Bis(2-ethylhexyl)phthalate was detected during the April 2007 sampling at a concentration slightly above its EPA Region 9 PRG (4.8 µg/L). Bis(2-ethylhexyl)phthalate will continue to be monitored as part of the correction action.

Carbazole. Carbazole was identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001) and in the CAP (SAIC 2002). A RL of 34.9 µg/L was derived. The maximum estimated concentration of carbazole (5.05J µg/L) was below the established RL of 34.9 µg/L and the maximum concentration detected in the RFI (5.7 µg/L); therefore, the corrective action for carbazole has been achieved.

Fluorene. Fluorene was detected below the previous MDC during the Phase II RI. Fluorene was detected an order of magnitude below the EPA Region 9 PRG (24 µg/L); therefore, no further evaluation is required.

Naphthalene. Naphthalene was not identified as a groundwater COC in the revised final Phase II RFI addendum report (SAIC 2001) or the CAP (SAIC 2004); however, it was identified as a COPC but dismissed during the BHHRA because the calculated risk for a concentration of 37.2 µg/L was below the HI of 0.1 for the following receptors: future on- and off-site installation worker, resident child or resident adult, and future on-site trespasser juvenile (SAIC 2001). Naphthalene does not represent a carcinogenic risk. During the April 2007 sampling, the maximum detection (30.8 µg/L) of naphthalene was below the concentration (37.2 µg/L) during the Phase II RFI: therefore, no further evaluation is required. The concentration of naphthalene will continue to be monitored under the corrective action proposed in the CAP.

Phenanthrene. Phenanthrene was not previously detected in groundwater. Phenanthrene was detected below its Region 9 PRG (18 µg/L); therefore, no further evaluation is required.

It should be noted that a full suite for VOCs and SVOCs is analyzed as part of the monitoring program for the natural attenuation alternative; therefore, any potential COCs are continually monitored as part of the corrective action.

2.6.2 Resolution of Constituents of Potential Concern Detected in Groundwater Collected in Calendar Year 2004

In accordance with the protocol and decision flowchart approved by GA EPD for evaluating SRCs identified in groundwater collected after the establishment of RLs through either an RFI report and/or a CAP (Appendix A), newly or sporadically detected SRCs in groundwater must be confirmed by subsequent annual sampling before they are identified as new COPCs requiring the development of a RL and treatment to below that RL as successful completion of the corrective action. Three contaminants, 2-methylnaphthalene, naphthalene, and dibenzofuran, were identified in the groundwater sampling of CY 2004 as potential new COPCs in which continued detections above previous maximum concentrations (RFI or CAP) or EPA Region 3 tap water RBCs (regulatory criteria approved for screening at the time) may require the development of RLs and subsequent corrective action. Each of these constituents is evaluated below.

2-Methlnaphthalene. 2-Methlnaphthalene was not detected above its previous maximum concentration (RFI or CAP) during the April 2007 groundwater sampling; therefore, in accordance with the protocol (Appendix A), the detection of 2-methylnaphthalene was not confirmed; thus, it was not a new COPC requiring the development of an RL and subsequent corrective action.

Naphthalene. Naphthalene was not detected above its previous maximum concentration (RFI or CAP) during the April 2007 groundwater sampling; therefore, in accordance with the protocol (Appendix A), the detection of naphthalene was not confirmed; thus, it was not as a new COPC requiring the development of an RL and subsequent corrective action.

Dibenzofuran. Dibenzofuran was not detected during the April 2007 groundwater sampling; therefore, in accordance with the protocol (Appendix A), the detection of dibenzofuran was not confirmed; thus, it was not a new COPC requiring the development of an RL and subsequent corrective action.

It should be noted that a full suite for VOCs and SVOCs is analyzed as part of the monitoring program for the natural attenuation alternative; therefore, any sporadically detected potential COPCs are continually monitored as part of the corrective action.

3.0 UPDATE OF THE FATE AND TRANSPORT MODEL

F&T modeling was used to evaluate MNA as the selected remedial alternative for soil and groundwater contamination for the CAP at SWMU 27F; the sampling data used in the F&T analysis were analytical data obtained up to January 2001. Later in CY 2006, the CAP Progress Report was submitted by SAIC (2006), which presented an updated and/or validated F&T model using the groundwater analytical data collected in CYs 2002 and 2004. The transport model is being further updated based on the most recent (CY 2007) groundwater sampling event as well as the soil sampling results from CY 2005.

As discussed in Chapter 2, SRCs in groundwater from the CY 2007 sampling event included seven VOCs and eight SVOCs. The VOCs were acetone; benzene; carbon disulfide; ethylbenzene; toluene; total xylenes; and *cis*-1,2-DCE;. The SVOCs were 1,1-biphenyl; 2-methylnaphthalene; acenaphthene; bis(2-ethylhexyl)phthalate; carbazole; fluorene; naphthalene; and phenanthrene. Of these, only benzene, 2-methylnaphthalene, and naphthalene were considered to be of potential concern. Benzene is a COC with an established RL of 5 µg/L. Benzene has been the primary constituent modeled because it is the most mobile of the contaminants at SWMU 27F. 2-Methylnaphthalene and naphthalene have been detected slightly above concentrations detected in the RFI but at concentrations that are not statistically different than the maximum detect from the RFI. Therefore, the modeling was only updated for benzene, the primary COC in the groundwater and the most mobile. Table 8 presents a summary of the inputs for both the previous (CYs 2002 and 2004) and the current (CY 2007) modeling for benzene in groundwater. The groundwater results for benzene from CY 2007 were used to validate and/or update the transport model, as discussed below.

Table 8. Summary of Input Parameters Used for AT123D Modeling, SWMU 27F, Northwest of Building 1340

Parameter	Benzene		
	CY 2002 Modeling	CY 2004 Modeling	CY 2007 Modeling
Release rate (mg/hr)	Variable (1.7 to 4.9)	Variable (0 to 7.5)	Variable (0 to 3.1)
Plume size (m × m)	10 × 6	17 × 6	15 × 3
Bulk density (g/cc)	1.69	1.69	1.69
Effective porosity (%)	20	20	20
Hydraulic conductivity (m/hr)	0.055	0.055	0.055
Hydraulic gradient (m/m)	0.0054	0.00184	0.00073
Kd (L/kg)	0.5589	0.5589	0.5589
Longitudinal dispersivity (m)	10	15	10
Transverse dispersivity (m)	3	5	5
Vertical dispersivity (m)	1	1.5	1
Molecular diffusion (m^2/hr)	3.53E-06	3.53E-06	3.53E-06
Biodegradation rate (hr^{-1})	4.01E-05	4.01E-05	4.01E-05

AT123D = Analytical Transient 1-, 2-, 3-Dimensional (model).
CY = Calendar year.
SWMU = Solid waste management unit.

From the last sampling event (CY 2007), the maximum groundwater concentration of benzene at this site was observed to be 48.4 µg/L (MW14). However, based on the CY 2004 updated transport model, the concentration was predicted to be 20 µg/L. Therefore, the Analytical Transient 1-, 2-, 3-Dimensional (AT123D) model (GSC 1998a and Yeh 1981) was recalibrated to this new concentration with the revised horizontal hydraulic gradient observed during CY 2007 sampling. Because the concentration in MW14 increased significantly as compared to the model prediction, the rate of decay for the contaminant loading had to be decreased. A revised decay rate for contaminant loading was developed by fitting a first order exponential decay curve for the groundwater concentrations observed at MW14 since CY 2001. The decay rate was then used for developing the hourly mass loading rates for AT123D modeling. The source size and the mass were slightly varied to calibrate the concentrations in MW14 as well as in other wells (MW7 and MW9). As with the previous modeling results (SAIC 2006), the updated modeling indicates that benzene migration from SWMU 27F will not be of concern at the nearest receptor location (man-made drainage ditch, approximately 450 ft southwest of the site). Based on the updated F&T modeling, the benzene concentration is not expected to ever exceed its RL (MCL) beyond 50 ft downgradient from MW14 (Figure 10 and Table 9). The updated modeling results also indicate that the groundwater concentration of benzene at this site will be reduced to below its MCL within 10.5 years (from April 2007) (Figure 11), which is a much longer timeframe than that predicted in the CAP Progress Report for CY 2006 (i.e., 8 years from January 2002). The natural attenuation time has increased mainly because the hydraulic gradient has further decreased, thereby decreasing the dilution due to advection, and the primary source has not been completely depleted as assumed in the previous updated model. A summary of the MNA time predicted by the model versus each groundwater sampling event is presented in Table 10.

It should be noted that the free product that was observed in MW4 and MW12 during the August 2004 sampling might have acted as a primary source for increasing the concentration in soils and groundwater. As discussed previously, BTEX compounds were detected in several soil borings along the southwest corner of the covered maintenance pad located nearest to the location of the former UST and the abandoned OWS located on the west side of the covered maintenance pad. The maximum concentration of benzene (0.864 mg/kg) in soil was observed in SB1 at a depth of 10 to 12 ft BGS. To evaluate the contaminant leaching to groundwater from soil contamination observed in SB1, Seasonal Soil Compartment (SESOIL) modeling (GSC 1998b; Bonazonuntas and Wagner 1984) was performed. The results of SESOIL modeling were used in the AT123D model to predict concentrations in groundwater. The results of this analysis (see Figure 12) indicate that soil contamination observed in SB1 will potentially impact the groundwater near SB1 for approximately 14 years from now.

Table 9. Dilution Attenuation Factors, SWMU 27F, Northwest of Building 1340

Distance to Receptor (ft)	Predicted Maximum Concentration of Benzene in Groundwater		Dilution Attenuation Factor	
	Soil Source (µg/L)	Plume Source (µg/L)	Soil Source (µg/L)	Plume Source (µg/L)
0	69.5	48.40	1.00	1.00
3	67.9	34.60	1.02	1.40
7	57.7	24.40	1.20	1.98
10	40.3	17.30	1.72	2.80
13	26.3	12.30	2.64	3.93
16	17.6	8.80	3.95	5.50
20	11.8	6.30	5.89	7.68
23	7.9	4.60	8.82	10.52
26	5.3	3.3	13.24	14.67
30	3.6	2.4	19.41	20.17
33	2.5	1.8	28.37	26.89
39	1.2	1.0	57.92	49.90
49	0.4	0.4	172.89	121.00

SWMU = Solid waste management unit.

Table 10. Summary of Results from Previous and Updated Modeling, SWMU 27F, Northwest of Building 1340

COPC	Initial Model (January 2001)		First Update of Model (September 2002)		Second Update of Model (August 2004)	
	Concern at Receptor?	Natural Attenuation Time	Concern at Receptor?	Natural Attenuation Time (Years from CY 2001)	Concern at Receptor?	Natural Attenuation Time (Years from CY 2001)
Benzene	No	6.5 years	No	8 years	No	9.5 years

COPC	Third Update of Model Groundwater (April 2007)		Third Update of Model Groundwater Based on Soil Concentration at SB1 (September 2005)	
	Concern at Receptor?	Natural Attenuation Time from April 2007	Concern at Receptor?	Natural Attenuation Time (Years from CY 2007)
Benzene	No	10.5 years	No	14 years

COPC = Constituent of potential concern.
CY = Calendar year.
SWMU = Solid waste management unit.

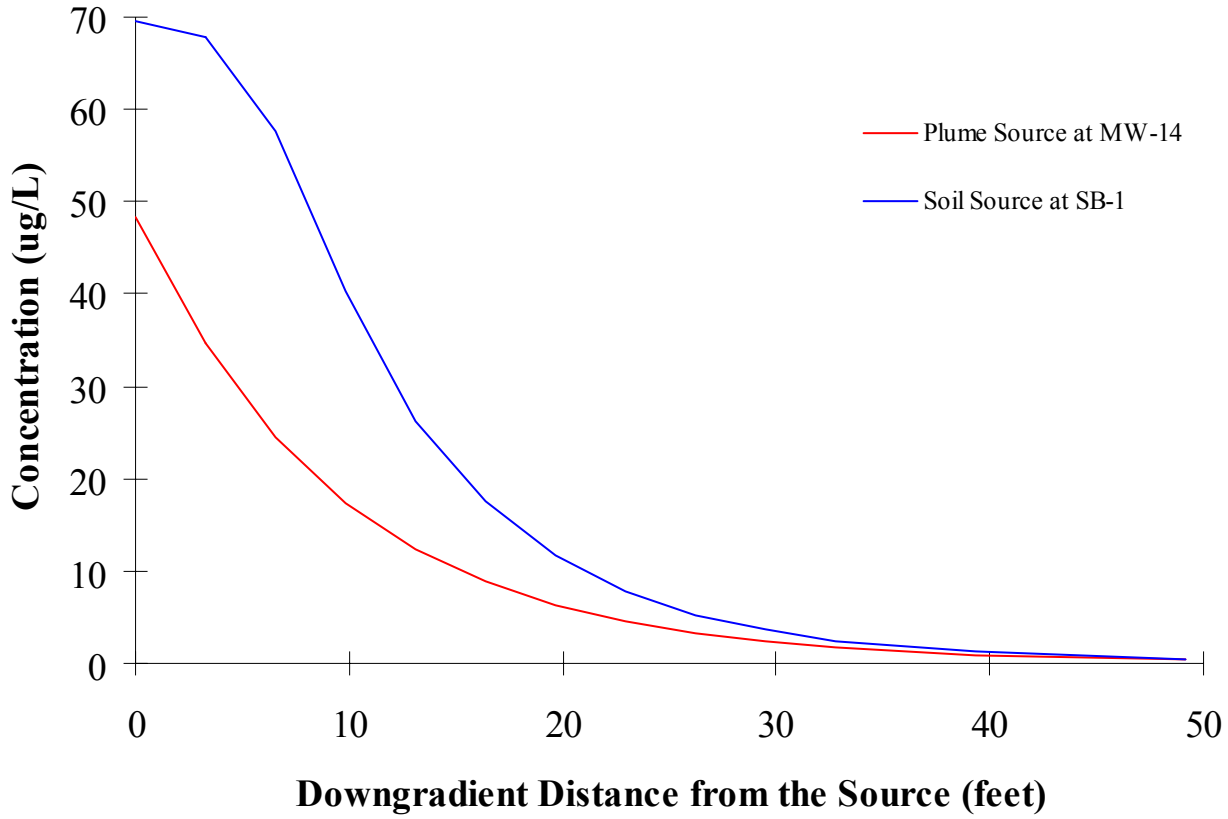

Figure 10. Modeled Concentration of Benzene in the Groundwater Versus Downgradient Distance from the Sources (Soil Contamination at SB1 and Groundwater Plume Source Near MW14), SWMU 27F, Northwest of Building 1340

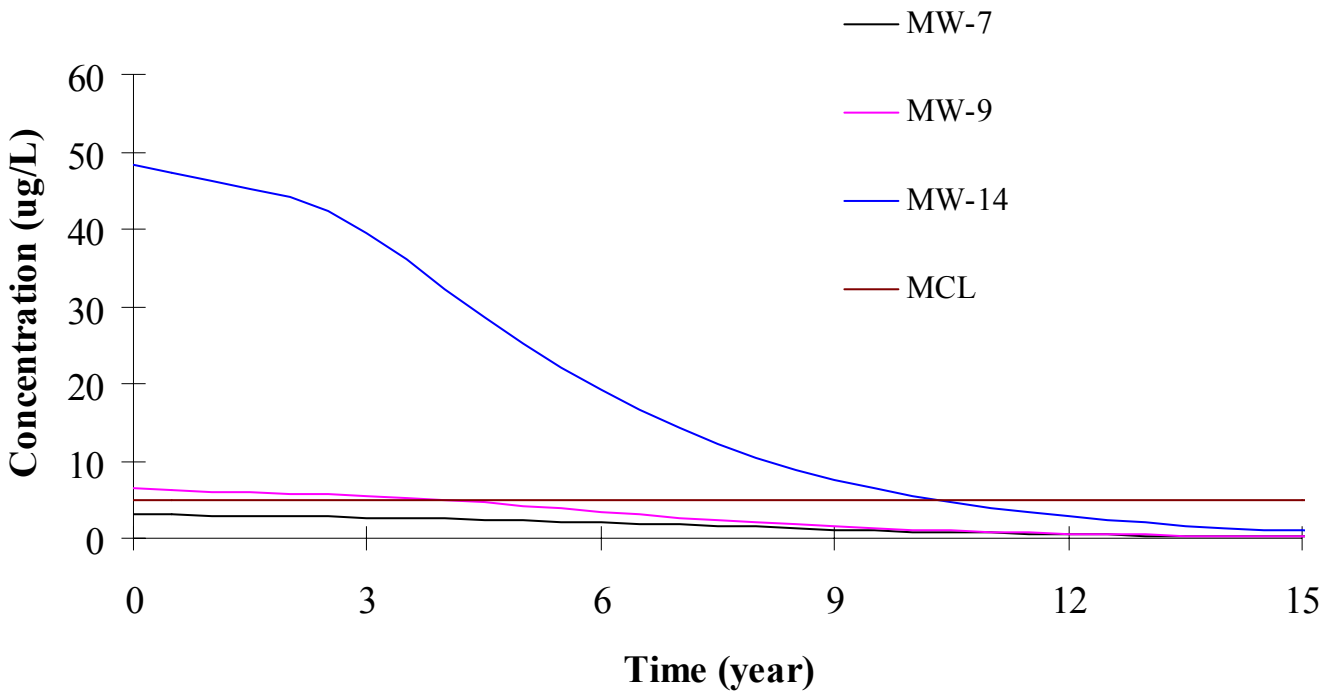

Figure 11. Predicted Concentration of Benzene in Groundwater Below the Source Using AT123D Modeling (Time 0 = April 2007), SWMU 27F

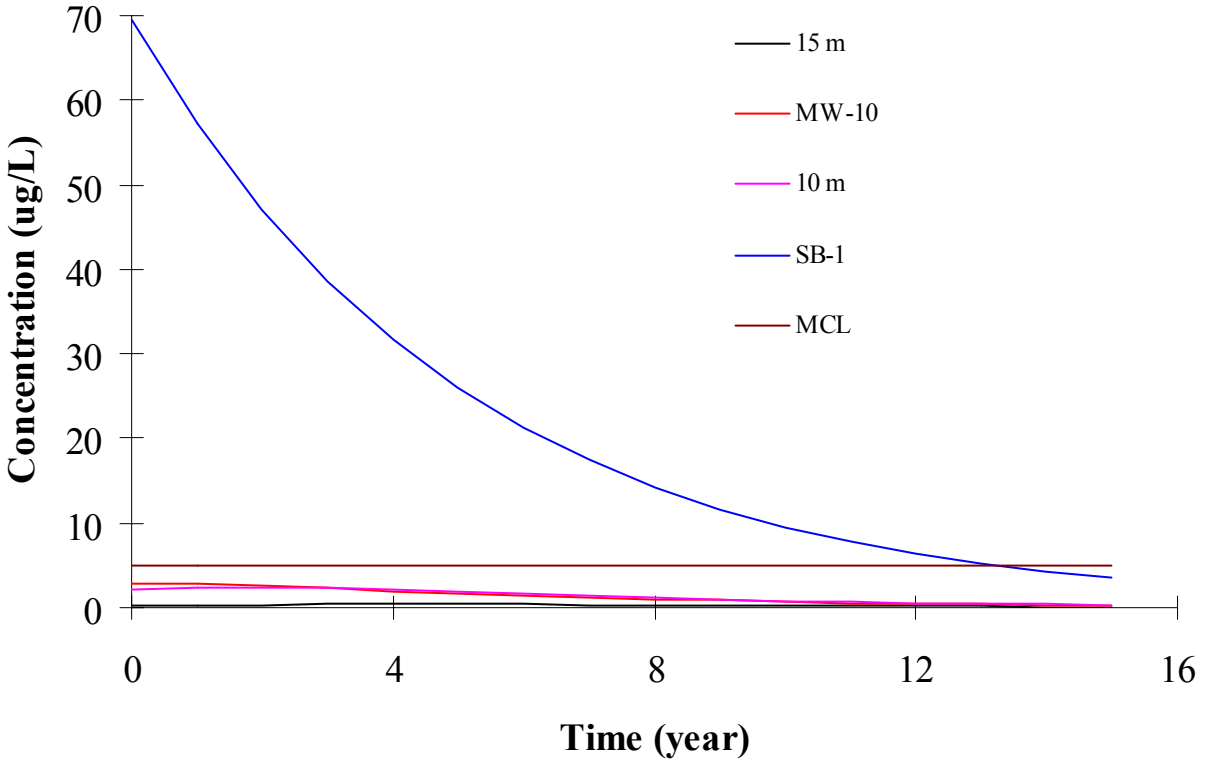

Figure 12. Predicted Concentration of Benzene in Groundwater Based on Leaching from Soil Contamination Observed at SB1, SWMU 27F

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

Soil samples were collected in September 2005 and groundwater samples were collected in April 2007 in accordance with the selected remedial alternative recommended for SWMU 27F (SAIC 2004) and recommendations presented in CAP Progress Report for CY 2004 (SAIC 2006). The conclusions below are presented by medium.

4.2 CONCLUSIONS ON SOIL

Subsurface soil samples were collected during September 2005 to evaluate the potential nature and extent of subsurface soil contamination at SWMU 27F. Petroleum contaminants were detected or estimated in subsurface soil along the southwest corner of the covered maintenance pad, which is near the location of the removed waste oil UST, abandoned OWS, and the abandoned piping that drained the inspection pits in the covered maintenance pad. Benzene was detected at one location slightly above (same order of magnitude) human health risk criteria (EPA Region 9 PRG) at one location and at six locations above the EPA Region 9 SSL. The benzene concentrations above EPA Region 9 SSLs indicate the soil may be a source of the continuing groundwater contamination at SWMU 27F. The soil contamination is prevented from migrating to surficial groundwater by the presence of a clay lens located at approximately 10 to 12 ft BGS. The soil contamination is contained in the soil column between 6 to 12 ft BGS. The UST Closure Report did not indicate any soil contamination during the tank removal. The extent of subsurface soil contamination has not been determined. The extent of subsurface soil contamination is believed to be either residual soil contamination remaining after the removal of the waste oil UST and its piping, or a waste oil release from the piping draining the inspection pits of the covered maintenance pad after the removal of the waste oil UST. The OWS and piping associated with the maintenance pad at SWMU 27F were evaluated in May 2007 using smoke testing, static water testing, and video inspection. Pipes having the potential to release contaminants to the environment were grouted and/or made unusable through engineering controls; therefore, these pipes should no longer be a potential source of contamination to soil and groundwater.

4.2.1 Groundwater Results for Calendar Year 2007

Constituents detected in groundwater during the CY 2007 groundwater sampling event included seven VOCs and eight SVOCs. The VOCs were acetone; benzene; carbon disulfide, ethylbenzene; toluene; total xylenes; and *cis*-1,2-DCE. The SVOCs were 1,1-biphenyl; 2-methylnaphthalene; acenaphthene; bis(2-ethylhexyl)phthalate; carbazole; fluorene; naphthalene; and phenanthrene. Benzene and carbazole have established RLs developed in the Phase II RFI report of 5 and 34.9 µg/L, respectively. The concentration of benzene remains above its RL; therefore, corrective action is not complete for benzene. The maximum concentration of carbazole (5.05 µg/L) was below its RL (34.9 µg/L) and the maximum concentration detected in the RFI (5.7 µg/L); therefore, corrective action for this constituent is considered complete.

Of the remaining constituents, only three, bis(2-ethylhexyl)phthalate, 2-methylnaphthalene, and naphthalene, were detected above Region 9 PRGs. 2-Methylnaphthalene and naphthalene continue to be sporadically detected at monitoring wells at levels slightly higher than the Region 9 PRGs for tap water; however, the concentrations were below the maximum concentration detected during the RFI that were determined not to represent a risk to human health. Bis(2-ethylhexyl)phthalate was detected at a concentration above the previous maximum and slightly above the EPA Region 9 PRG for tap water. The concentration of bis(2-ethylhexyl)phthalate will be confirmed during the next groundwater sampling event.

Dibenzofuran, which was detected (1.4 µg/L) slightly above its EPA Region 3 RBC [(1.22 µg/L), regulatory criteria approved by GA EPD to use at the time] during the CY 2004 sampling event, was not detected (i.e., confirmed) during the CY 2007 groundwater sampling event; therefore, dibenzofuran is not a new COC requiring the development of an RL. The concentration of dibenzofuran will continue to be monitored during annual groundwater monitoring.

Table 11 presents the concentrations of benzene, carbazole, 2-methylnaphthalene, and naphthalene in shallow groundwater since 1999. Benzene and carbazole were selected because they are COCs in groundwater. 2-Methylnaphthalene and naphthalene were selected because they continue to be sporadically detected and at concentrations only slightly higher than the maximum concentration detected during the RFI and above the EPA Region 9 PRG for tap water. Table 11 indicates that benzene tends to be decreasing or staying relatively constant at low concentrations in most of the monitoring wells. Wells MW9 and MW14 have the most predominant change in concentration. In MW14, benzene has decreased from a concentration of 79.1 µg/L in CY 2000 to 42.9 µg/L in CY 2004. However, in MW9, the benzene concentration has increased from 4.4 µg/L in CY 2002 to 16.4 µg/L in April 2007. Figure 13 presents the estimated nature and extent of benzene contamination based on April 2007 groundwater sampling. Carbazole has never been detected above its RL.

As discussed previously, 2-methylnaphthalene and naphthalene do not presently represent a risk to human health; however, their concentrations are indicating an increasing trend and migration. The location of the maximum concentration has changed. During the Phase II RFI, the maximum concentrations of 2-methylnaphthalene and naphthalene were detected at MW14. The detected concentration of 2-methylnaphthalene in MW14 in CY 2004 was lower than the detected concentration during the Phase I RFI and in CY 2002, thus indicating a decreasing trend at this location. MW4, a well located slightly side-gradient to the former OWS, has shown a slight increase in the concentration of 2-methylnaphthalene from the Phase II RFI. The concentration was 15.6 µg/L in 2001 and has increased to 33.4 and 33.3 µg/L in CYs 2002 and 2004, respectively. However, during the April 2007 groundwater sampling, the concentration of 2-methylnaphthalene at MW4 was less than 1 µg/L. The concentration of naphthalene (30.8 µg/L) at MW14 remains at concentrations measured previously. The concentrations of 2-methylnaphthalene and naphthalene remain essentially the same; however, their plume has migrated more to the southwest of the site.

Free product was not measured in MW4 and MW12 during the April 2007 groundwater sampling event. The lack of measured free product may be the result of the continual use of absorbent socks combined with the low rainfall conditions (i.e., drought) experienced across the south. The accumulation of free product is slow and is probably the result of residual contamination in the soil being flushed out.

4.2.2 Update of the Fate and Transport Model

The modeling performed in the CAP for SWMU 27F to evaluate the F&T and natural attenuation of benzene was calibrated/verified with the CY 2005 soil data and CY 2007 groundwater concentrations.

From the last sampling event (CY 2007), the maximum groundwater concentration of benzene at this site was observed to be 48.4 µg/L (MW14). However, based on the CY 2004 updated transport model, the concentration was predicted to be 20 µg/L. The AT123D model was recalibrated to new conditions observed in CY 2007. As with the previous modeling results (SAIC 2006), the updated modeling indicates that benzene migration from SWMU 27F will not be of concern at the nearest receptor location (man-made drainage ditch, approximately 450 ft southwest of the site). Based on the updated F&T modeling, the benzene concentration is not expected to ever exceed its RL (MCL) beyond 50 ft downgradient from MW14. The updated modeling results also indicate that the groundwater concentration of benzene at this site will be reduced to below its MCL within 10.5 years (from

Table 11. Concentrations of Benzene, Carbazole, 2-Methylnaphthalene, and Naphthalene in Shallow Groundwater Since 1999 at SWMU 27F, Northwest of Building 1340

Station	Remedial Level	MW1	MW1	MW1	7J-MW1	MW1	7J-MW3	7J-MW3	7J-MW3	7J-MW3
Sample ID		7J4171	7J4172	7J4173	7J4174	7J4178	7J4371	7J4372	7J4373	7J4374
Date		11/02/99	01/05/01	09/19/02	08/19/04	04/22/07	11/01/99	01/05/01	09/20/02	08/19/04
Benzene	5									
2-Methylnaphthalene	None[a]						4.1 J			
Carbazole	34.9									
Naphthalene	None[a]						4.4 J	1	1 J	0.4 J

Station	Remedial Level	MW3	7J-MW4	7J-MW4	7J-MW4	7J-MW4	MW4	7J-MW5	7J-MW5	7J-MW5
Sample ID		7J4378	7J4471	7J4472	7J4473	7J4474	7J4478	7J4571	7J4572	7J4573
Date		04/19/07	11/01/99	01/06/01	09/20/02	08/20/04	04/18/07	11/02/99	01/05/01	09/19/02
Benzene	5			1.5	0.53 J					
2-Methylnaphthalene	None[a]			15.6	33.4	33.3	0.741 J			
Carbazole	34.9				1.2 J		3.19			
Naphthalene	None[a]	0.502 J		11	15.5	11.8	3.11			

Station	Remedial Level	7J-MW5	MW5	7J-MW6	7J-MW6	7J-MW6	7J-MW6	MW6	7J-MW7	7J-MW7
Sample ID		7J4574	7J4578	7J4671	7J4672	7J4673	7J4674	7J4678	7J4771	7J4772
Date		08/19/04	04/19/07	11/01/99	01/07/01	09/20/02	08/19/04	04/20/07	11/01/99	01/06/01
Benzene	5				0.17 J					**31.4**
2-Methylnaphthalene	None[a]		0.819 J							7.4
Carbazole	34.9									
Naphthalene	None[a]	1.4	6.03			0.16 J	1.6			

Table 11. Concentrations of Benzene, Carbazole, 2-Methylnaphthalene, and Naphthalene in Shallow Groundwater Since 1999 at SWMU 27F, Northwest of Building 1340 (continued)

Station	Remedial Level	7J-MW7	7J-MW7	MW7	7J-MW9	7J-MW9	7J-MW9	7J-MW9	MW9	7J-MW10
Sample ID		7J4773	7J4774	7J4778	7J4971	7J4972	7J4973	7J4974	7J4978	7J4A71
Date		09/19/02	08/20/04	04/18/07	11/02/99	01/05/01	09/19/02	08/19/04	04/18/07	11/01/99
Benzene	5	4.3	**12.2**	2.6	4.6	**5.8**	4.4	**16.4**	**6.35**	**8.5**
2-Methylnaphthalene	None[a]	1.3	2.8	0.302 J		2.3	1.4	11.6	3.3	10.8 J
Carbazole	34.9		0.78 J					2.6 J	3.56	
Naphthalene	None[a]	1.4	3.7	0.42 J		3.6	3.2	19.8	6.53	6.4 J

Station	Remedial Level	7J-MW10	7J-MW10	7J-MW10	MW10	7J-MW13	7J-MW13	MW13	7J-MW14	7J-MW14
Sample ID		7J4A72	7J4A73	7J4A74	7J4A78	7J4D71	7J4D72	7J4D78	7J4E71	7J4E72
Date		01/07/01	09/23/02	08/20/04	04/18/07	11/29/00	01/07/01	07/18/07	11/30/00	01/06/01
Benzene	5	2.4	2.9	3.4	2.08				**79.1**	**61**
2-Methylnaphthalene	None[a]	1.7	4.1	6.4	1.37	NA			NA	31.9
Carbazole	34.9			1.1 J		NA			NA	5.7 J
Naphthalene	None[a]	1.2	2.6	4.6	1.47	NA			NA	37.2

Station	Remedial Level	7J-MW14	7J-MW14	MW14	7J-MW15	7J-MW15	7J-MW15	7J-MW15	MW15	7J-MW16
Sample ID		7J4E73	7J4E74	7J4E78	7J4F71	7J4F72	7J4F73	7J4F74	7J4F78	7J4G71
Date		09/19/02	08/20/04	04/20/07	11/29/00	01/06/01	09/19/02	08/20/04	04/22/07	12/05/00
Benzene	5	**57.3**	**42.9**	**48.4**						2.1
2-Methylnaphthalene	None[a]	32	25.5	5.49	NA			1.2	0.457 J	NA
Carbazole	34.9	4.4 J	3.1 J	5.05	NA					NA
Naphthalene	None[a]	45.9	43	30.8	NA			4.1	6.58	NA

Table 11. Concentrations of Benzene, Carbazole, 2-Methylnaphthalene, and Naphthalene in Shallow Groundwater Since 1999 at SWMU 27F, Northwest of Building 1340 (continued)

Station	Remedial Level	7J-MW16	7J-MW16	7J-MW16	MW16	7J-MW17	7J-MW17	7J-MW17	7J-MW17	MW17
Sample ID		**7J4G72**	**7J4G73**	**7J4G74**	**7J4G78**	**7J4H71**	**7J4H72**	**7J4H73**	**7J4H74**	**7J4H78**
Date		**01/06/01**	**09/20/02**	**08/19/04**	**04/22/07**	**12/05/00**	**01/06/01**	**09/19/02**	**08/20/04**	**04/20/07**
Benzene	5	0.28 J				2				
2-Methylnaphthalene	None[a]					NA				
Carbazole	34.9					NA				
Naphthalene	None[a]					NA		1 J		

Station	Remedial Level	7J-MW18	7J-MW18	7J-MW18	7J-MW18	MW18
Sample ID		**7J4J71**	**7J4J72**	**7J4J73**	**7J4J74**	**7J4J78**
Date		**12/05/00**	**01/08/01**	**09/19/02**	**08/19/04**	**04/22/07**
Benzene	5			0.38 J		
2-Methylnaphthalene	None[a]	NA		5.1	10.6	6.9
Carbazole	34.9	NA				
Naphthalene	None[a]	NA	3.8	4.9	9.7	4.83

[a]No remedial level was established in the Phase II Resource Conservation and Recovery Act facility investigation because the human health baseline risk assessment indicated that the calculated risk was below the incremental lifetime cancer risk of 1×10^{-6} and the hazard index of 1.0; therefore, the constituent was not a risk driver and was dismissed.

J = Estimated value.
NA = Not available.
SWMU = Solid waste management unit.
Bold indicates concentration exceeds remedial level.

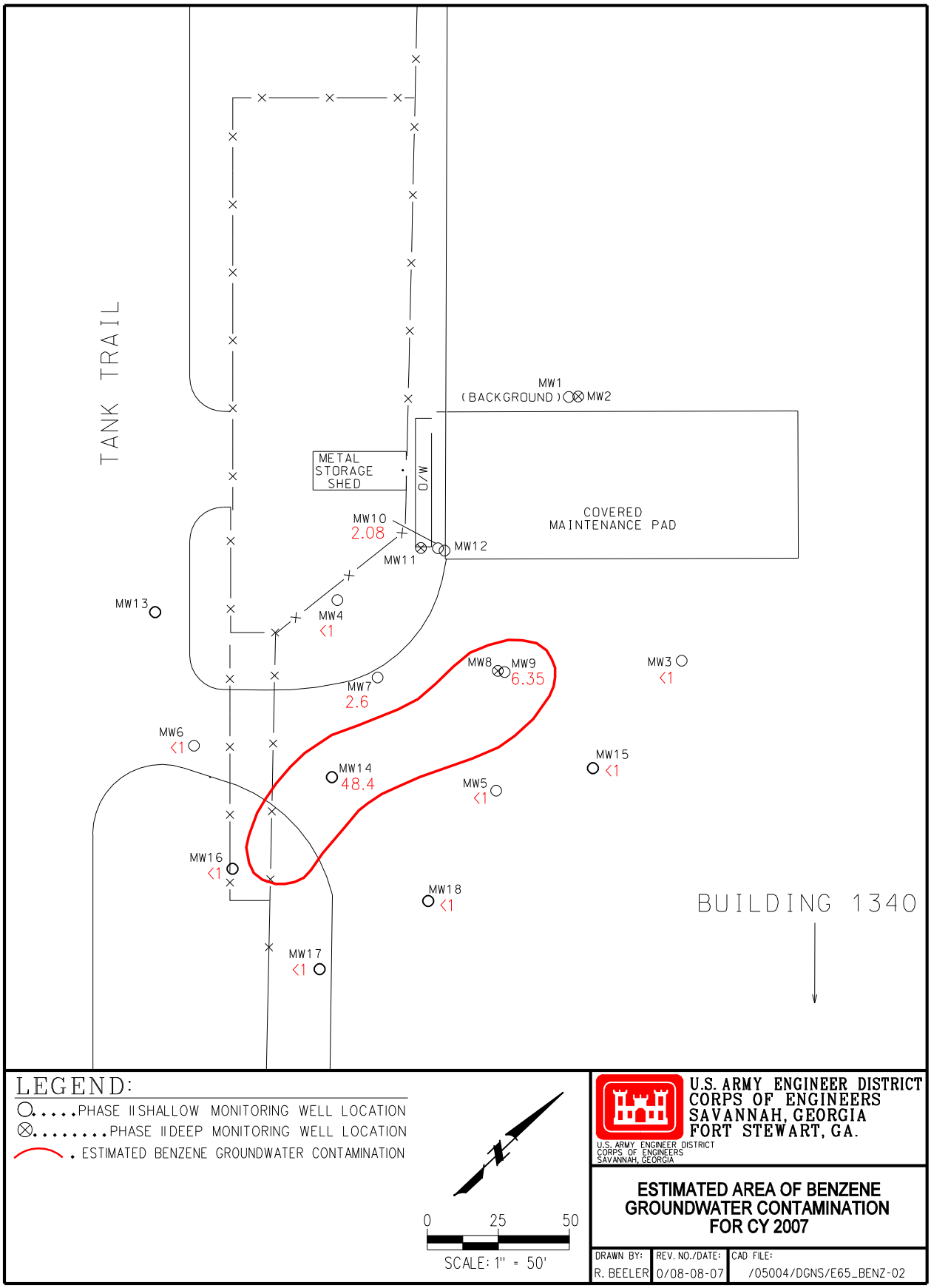

Figure 13. Estimated Area of Benzene Groundwater Contamination for CY 2007, SWMU 27F, Northwest of Building 1340

April 2007) (Table 10). This is a much longer timeframe than that predicted in the CAP Progress Report for CY 2004 (Table 10) (i.e., 8 years from January 2002). The natural attenuation time has increased mainly because the hydraulic gradient has further decreased, thereby decreasing the dilution due to advection, and the primary source has not been completely depleted as assumed in the previous updated model.

It should be noted that the free product that was observed in MW4 and MW12 during the August 2004 sampling might have acted as a primary source for increasing the concentration in soils and groundwater. As discussed previously, BTEX compounds were detected in several soil borings along the southwest corner of the covered maintenance pad located nearest to the location of the former UST and the abandoned OWS located on the west side of the covered maintenance pad. The maximum concentration of benzene (0.864 mg/kg) in soil was observed in SB1 at a depth of 10 to 12 ft BGS. The results of SESOIL modeling were used to predict the concentration in groundwater. The soil contamination observed in SB1 will potentially impact the groundwater near SB1 for approximately 14 years from CY 2007.

4.3 RECOMMENDATIONS

The following recommendations are based on the results to date and are discussed by media.

4.3.1 Free Product

Free product was not measured in MW4 and MW12 during the April 2007 groundwater sampling event. The lack of measured free product may be the result the continual use of absorbent socks combined with the low rainfall conditions (i.e., drought) experienced across the South. The accumulation of free product is slow and is probably the result of residual contamination in the soil being flushed out. The quantities generated do not warrant active removal techniques. Passive techniques would be sufficient to remove the quantities accumulating in the two wells. Absorbent socks should be placed in MW4 and MW12 and inspected and/or removed quarterly.

4.3.2 Annual Groundwater Sampling at Shallow Surficial Monitoring Wells

Annual groundwater sampling at 14 shallow monitoring wells shall continue to monitor the progress of natural attenuation. Wells MW1 (background), MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW13, MW14, MW15, MW16, MW17, and MW18 are located within, downgradient of, or near the contaminant plumes (Figure 9) at SWMU 27F and represent an effective groundwater network to monitor the characteristics and potential migration of the contaminant plume at SWMU 27F. The groundwater shall be sampled using low-flow techniques and analyzed for VOCs, SVOCs, and natural attenuation parameters.

In addition, the following field measurements will be performed: conductivity, pH, temperature, dissolved oxygen, oxidation-reduction potential, and ferrous iron. Measurements of water levels were taken at all of the monitoring wells. Water levels shall be collected in all wells for the development of potentiometric maps. Free product shall be measured in all shallow surficial wells using a free product level meter. The results of the annual groundwater sampling will be submitted annually to GA EPD in a CAP progress report until RLs have been achieved.

4.3.3 Delineate Subsurface Soil Contamination

The results of the subsurface soil investigation indicated that the extent of subsurface soil contamination has not been determined at SWMU 27F. The potential additional sources of soil contamination other than

residual subsurface soil contamination from the removed waste oil UST have been identified and eliminated through the OWS and piping evaluation. The results of the OWS and piping evaluation will be used to locate the soil boring locations.

Nine additional subsurface soil sampling borings (SB15 through SB24) will be installed using DPT to determine the extent of soil contamination at SWMU 27F. Continuous soil samples will be collected to the perched clay lens located at approximately 12 to 15 ft BGS. One groundwater sample will be collected from the last soil sampling interval. The two subsurface soil samples and one groundwater sample will be sent to an off-site analytical laboratory and analyzed for BTEX and SVOCs. The proposed locations of the soil groundwater samples are presented in Figure 14. The results of the soil sampling will be reported in the next CAP Progress Report to be issued for SWMU 27F or the addendum to the CAP.

4.3.4 Confirmatory Surface Soil Sampling

In response to GA EPD comments received on the CAP Progress Report for CY 2002, two surface soil samples shall be collected in the vicinity of MW10 to confirm the natural attenuation of benzo(*a*)pyrene has been reduced to concentrations below RLs. Each soil sample shall be collected with a hand auger and analyzed for SVOCs to determine levels of benzo(*a*)pyrene remaining at the site.

4.3.5 Natural Oxidant Demand/Soil Oxidant Demand and Chemical Oxidation Bench-Scale Study

Soil samples shall be collected for natural oxidant demand/soil oxidant demand and a chemical oxidation bench-scale study to evaluate potential in-situ chemical oxidation for oxidizing the soil and groundwater contaminants. The chemical oxidation bench-scale study shall investigate the chemical oxidant—persulfate—and three activators—alkaline, Fe-EDTA, and hydrogen peroxide. Soil will be collected from the location (SB1) indicating the highest concentration of subsurface contamination from the previous subsurface investigation (September 2005).

4.3.6 Addendum to the Corrective Action Plan

An addendum to the CAP shall be written screening remedial technologies and process options and evaluating potential alternatives for the remaining soil and groundwater contamination given that MNA is estimated by modeling to require 14 years from CY 2007. The technologies evaluated will focus on proven technologies for petroleum-contaminated soil and groundwater. At a minimum, the following technologies/process options will be evaluated for their cost effectiveness for contaminated soil and groundwater:

Soil: Natural attenuation, excavation, in-situ chemical oxidation, and biostimulation (e.g., bioventing and the addition of oxygen-releasing compounds and specialized bacteria, etc.).

Groundwater: Natural attenuation, air sparging, in-situ chemical oxidation, and biostimulation (e.g., addition of oxygen-releasing compounds and specialized bacteria, etc.).

4.3.7 Annual Corrective Action Plan Progress Report

Annual results of monitoring shall be presented in an Annual CAP Progress Report for SWMU 27F. The report shall summarize the sampling and analytical results and include an analysis of trends and effectiveness of the corrective action for that CY.

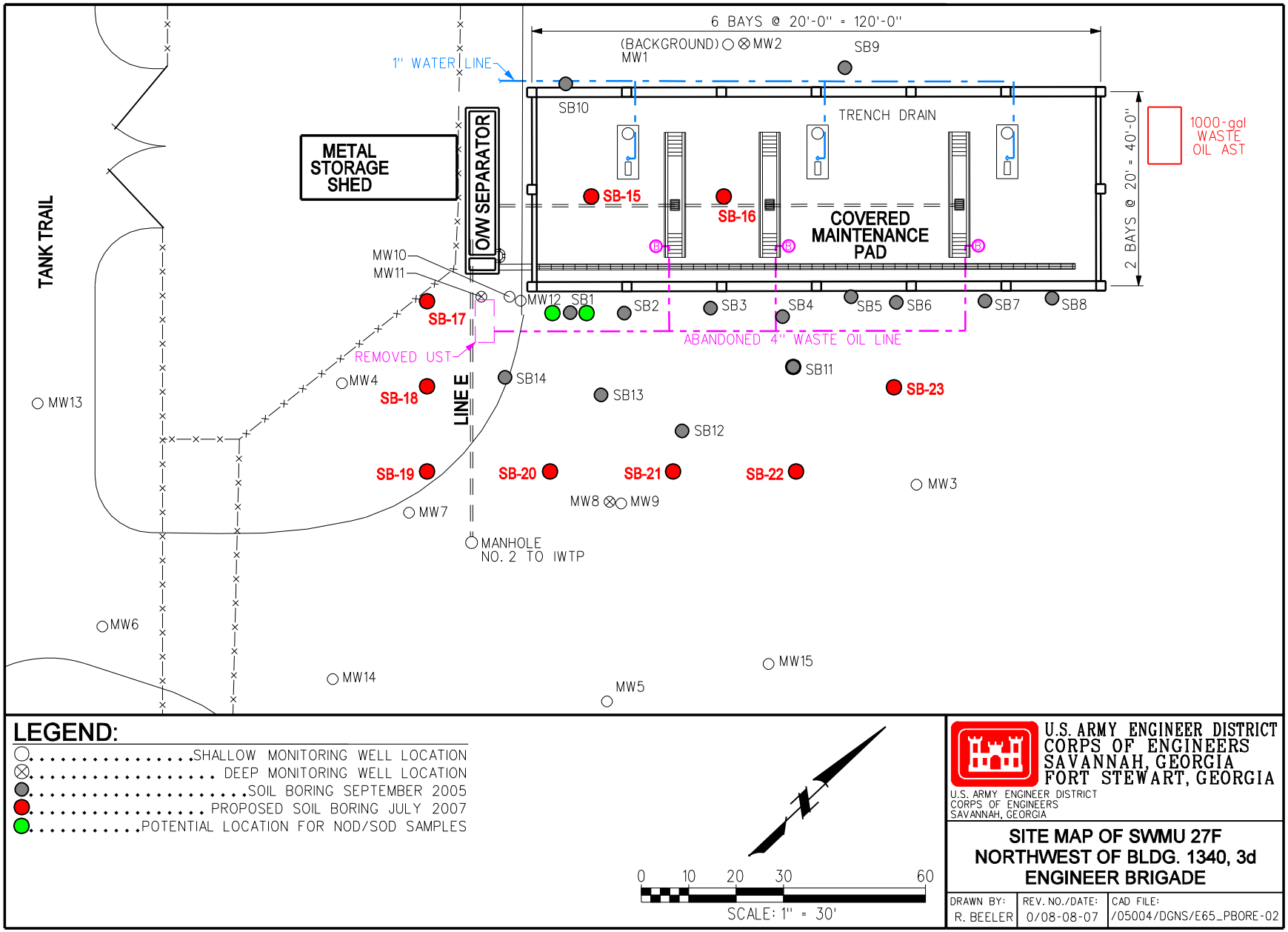

Figure 14. Proposed Boring Locations for SWMU 27F, Northwest of Building 1340

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5.0 REFERENCES

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APPENDIX A

PROTOCOL FOR ESTABLISHING REMEDIAL LEVELS

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Longaker, Jeff

From: Brent Rabon [brent_rabon@mail.dnr.state.ga.us]
Sent: Friday, May 04, 2001 3:06 PM
To: LittleDERA@aol.com
Subject: Re: Written Description which accompanies flowchart

Protocol.doc

Melanie, GA EPD has reviewed the Protocol proposed by Fort Stewart in your e-mail and facsimile (Little to Rabon) dated 30 April 2001 and 2 May 2001, respectively. Based upon that review and in order to expedite resolution of this issue, I have modified your version of the Written Description to accompany the flowchart (See attachment) and propose that some text be added (in bold) and deleted (struck out). Please note that modification of the hazardous constituents definition in the Written Description will also require modification of the one (1) applicable block in the flowchart.

The majority of the requested modifications are an attempt to make the proposal more generic for SWMUs which are not addressed by the Phase II RFI Report for 16 SWMUs dated April 2000 (e.g., SWMU 13). I do realize, however, that Fort Stewart may elect to modify the text in order to be more SWMU-specific when including this Protocol into a Corrective Action Plan.

Please do not hesitate to contact me should you have any questions concerning this e-mail.

Thank you,
Brent

>>> <LittleDERA@aol.com> 04/30/01 04:39PM >>>
See attached. Thanks, Melanie

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PROTOCOL FOR EVALUATING ADDITIONALLY DETECTED CONSTITUENTS IN GROUNDWATER AFTER APPROVAL OF A RCRA FACILITY INVESTIGATION REPORT

A.1 INTRODUCTION

Groundwater monitoring is typically suggested for solid waste management units (SWMUs) that have been recommended for a corrective action other than institutional controls to determine either the groundwater characteristics prior to development of the Corrective Action Plan (CAP) and/or as part of the remedial alternative [e.g., monitored natural attenuation (MNA)] recommended in the CAP. Additional groundwater monitoring might result in more constituents being detected in groundwater and/or constituents being detected at concentrations higher than those evaluated in the Georgia Environmental Protection Division (GA EPD)-approved Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) report. Constituents identified as constituents of potential concern (COPCs) in the RFI report are evaluated in human health and ecological risk assessments, and their risk is quantified. COPCs determined to present a risk to human health and/or the environment are identified as constituents of concern (COCs), and remedial levels are developed. COCs indicated at concentrations above remedial levels (and the source media of the COCs) are identified in the CAP as constituents requiring remedial action. The following presents the potential methodology for evaluating additional constituents and/or constituents detected at concentrations higher than those previously detected and that might not have indicated risk or for which a remedial level might not have been developed in the Phase II RFI.

A.2 PROTOCOL

Groundwater sampling and monitoring results will be evaluated to determine if significant changes are occurring in the types and concentrations of constituents present in the groundwater. An evaluation protocol has been developed to assess the potential increases in the groundwater concentrations of constituents not identified as COCs in the GA EPD-approved RFI report. The accompanying decision chart (Figure A-1) presents the decision points required in the evaluation.

Identification. Initially the data will be evaluated to determine what constituents, if any, have increased concentrations in groundwater but were not addressed as COCs in the RFI, which would include constituents that were not detected during the RFI groundwater sampling. The maximum detected concentration (MDC) from the monitoring data will be compared to the MDC listed in the RFI. If the concentration is elevated (i.e., greater than the MDC reported in the RFI), further evaluation will be required to determine if this constituent should be addressed under the remedial action. All constituents not previously detected will be evaluated further.

Confirmation. Given that groundwater concentrations are likely to fluctuate, a single elevated value does not indicate that the concentration of the constituent is increasing over time. The value might be a statistical aberration or the result of a temporary change in environmental conditions. If the elevated concentration represents a single event, confirmation of the results is required, and no further evaluation of the constituent should be undertaken until the sampling results have been confirmed during the next groundwater monitoring sampling event.

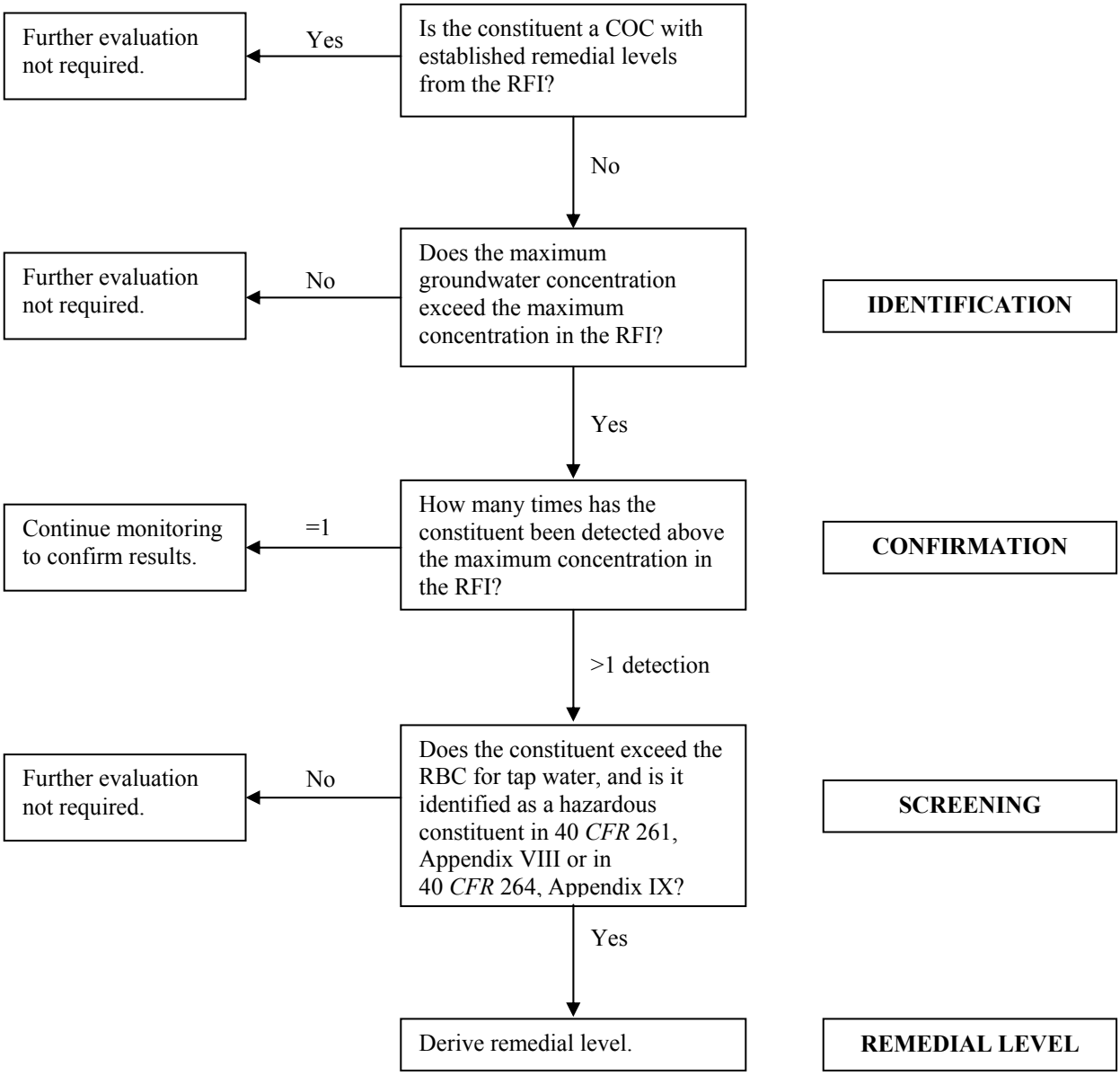

Figure A-1. Protocol for Developing Remedial Level

Screening. Upon confirmation of the sampling results, the maximum concentration will be screened using the U. S. Environmental Protection Agency Region 3 risk-based concentrations (RBCs) for tap water as described in Section 7.3.2 ("Screening Values for Groundwater") of the revised final Phase II RFI Report for 16 SWMUs at Fort Stewart, Georgia (SAIC 2000). These screening values were used in the Phase II RFI to identify human health COPCs in groundwater and will identify those constituents that might have an adverse effect on human health. In addition, if the constituent is not listed in Title 40, *Code of Federal Regulations (CFR),* Part 261, Appendix VIII or in 40 *CFR* 264, Appendix IX [see the definition of hazardous constituents in Section I.E of the Fort Stewart Hazardous Waste Facility Permit #HW-045(S&T)]**,** then it will not be considered a hazardous constituent and will be eliminated.

Remedial Level Development. A remedial level will be derived for each constituent with a maximum concentration that exceeds the RBC. The remedial level will be derived using the protocols established for that site in the Phase II RFI. If a risk-based remedial level is derived for the constituent, the total risk for exposure to groundwater constituent concentrations equal to the remedial levels should not exceed a hazard index of 3 or an incremental lifetime cancer risk of 1×10^{-4} (GA EPD 1996).

Documentation. Groundwater monitoring data collected to determine present characteristics prior to development of the CAP will be evaluated under the section "Supplemental Data Evaluation" in the CAP. The supplemental data evaluation will be presented as an appendix and summarized in Chapter 2.0 of the CAP. The evaluation of potential additional constituents and/or the detection of constituents at concentrations greater than previously reported and potential remedial level development will be presented in the supplemental data evaluation in the CAP.

Groundwater monitoring data collected as part of the selected and implemented remedial alternative will be reported to GA EPD in CAP progress reports. The reporting period will be dictated by the remedial alternative being implemented. For example, MNA typically has an annual reporting schedule, while active remedial action alternatives (e.g., in-situ chemical oxidation) may be reported after the performance of the remedial alternative and at subsequent intervals thereafter. The reports to be issued and the reporting schedule will be documented in the CAP. The evaluation of potential additional constituents and/or the detection of constituents at concentrations greater than previously reported and potential remedial level development will be presented in the CAP progress reports. This protocol will be presented and established in the operations and maintenance plan and MNA checklist (if MNA is selected), both of which will be appendices to the CAP.

A.3 REFERENCES

GA EPD (Georgia Environmental Protection Division) 1996. *Guidance for Selecting Media Remediation Levels at RCRA Solid Waste Management Units*, Atlanta, Georgia, November.

SAIC (Science Applications International Corporation) 2000. *Phase II RCRA Facility Investigation Report for 16 Solid Waste Management Units at Fort Stewart, Georgia* (Revised Final), Oak Ridge, Tennessee, April.

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APPENDIX B

SOIL BORING LOGS

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DP1 - SB01

3

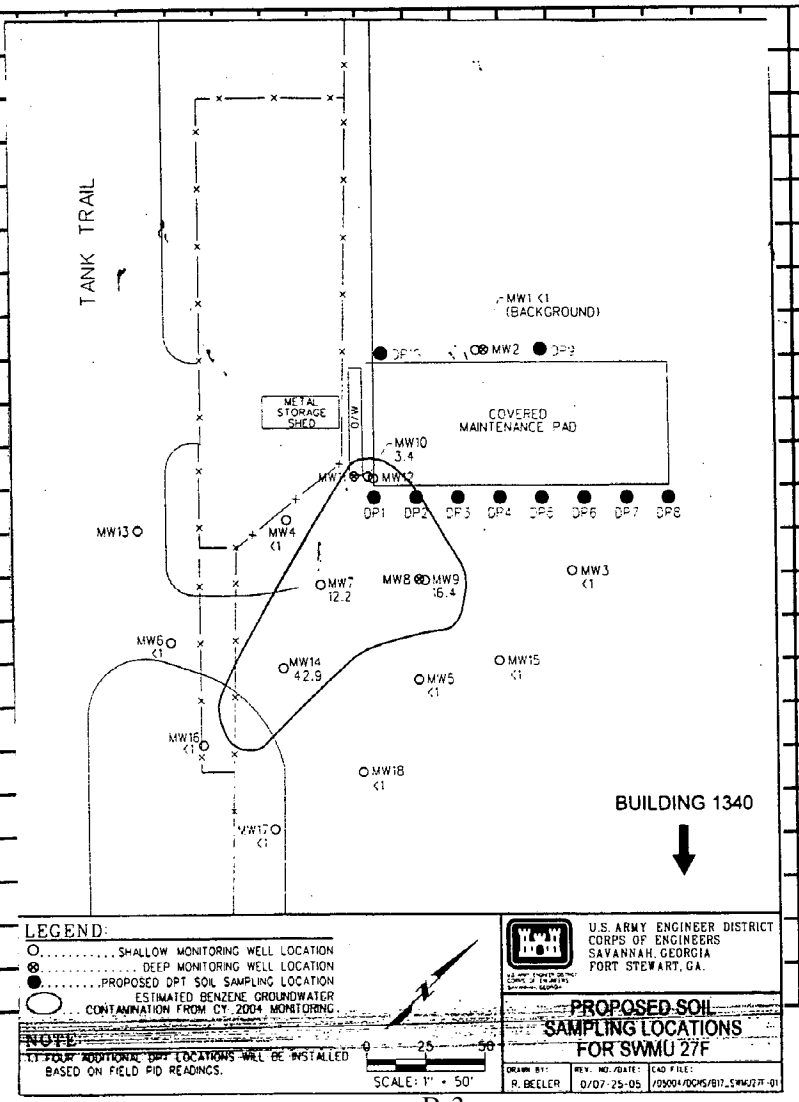
HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER SB01
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E&S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" x 4' steel rods acetate lined	8. HOLE LOCATION: SB01	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: >12.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



DP1 - SB01 4

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Deady | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1					
	2	Hand Auger 0-4 ← Due to utilities.				
	3					
	4	(SP) Dk brown 2.5Y 3/1 Well sorted, angular med SAND				
	5	(SC) Light grey N 7/1 lt brown 2.5YR 6/6 Sandy Clay Sand = angular, med moist.	4-6 9.4			
	6					
	7		6-8 63.0			
	8		8-10 72.7			
	9					
	10					

DP1 - 5801

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above.	10-12		10-12'	
			222	1d	7J1181	
		SC				
		lt brown well sorted SAND (SP), moist, angular med				
	12	TD = 12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP2 - SB02 #3

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER: DP2
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E&S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: Swmu 27, DP2/SB02	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0x2.0" Steel rods, acetate liners	8. HOLE LOCATION: Swmu 27, SB02	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: >12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X			Sam Denby		

LOCATION SKETCH/COMMENTS: See page 3

SCALE:

(Signature and Date)

DP2 - SB02

HTRW DRILLING LOG

HOLE NUMBER 84

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1		0.0			
	2	Hand Auger 0-4	NA			
	3		0.4			
	4					
		Dk brown well sorted med, angular SAND (SP) 2.5Y 3/1	2-4 0.0			
SP	5					
SC		lt grey N 7/1 lt brown 2.5Y 6/4 Sandy CLAY, moist (SC)	4-6 0.0			
	6					
	7					
	8		6-8 0.0			
	9					
	10					

DP2-SB02 85

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	SX	same as above.				
	CL	lt Grey N 7/1 hard CLAY, no Sand	8.1P 0.P			
	11	CL				
	12	TD = 12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP3/SB3 63

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27 SB03	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" steel Rods; acetate lined	8. HOLE LOCATION: SWMU 27, SB03	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/16/05	11. DATE COMPLETED: 9/16/05
12. OVERBURDEN THICKNESS: > 12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X			[signature]		

LOCATION SKETCH/COMMENTS: See page 3

SCALE:

DP3 583 4

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Deady | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Hand Auger assume Sand litho as surrounding borings	hand auger			
	2					
	3					
	4					
	5	lt brown and Dark brown well sorted Sand (SP) 10YR 4/3 7.5YR 2.5/1	4-6 375			
	6					
SP	SP					
SC		lt grey Sandy clay 7.5YR 9/8 ~30% Sand, angular med sized mast	6-8 579			
	8		8-10 203			
	9					
	10					

DP3/SB03 65

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	same as above.	10-12 18.9			
	SC	SC				
	CL 12	CL lt gray med stiff CLAY, no sand				TD = 12-8
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP4/SB4 43

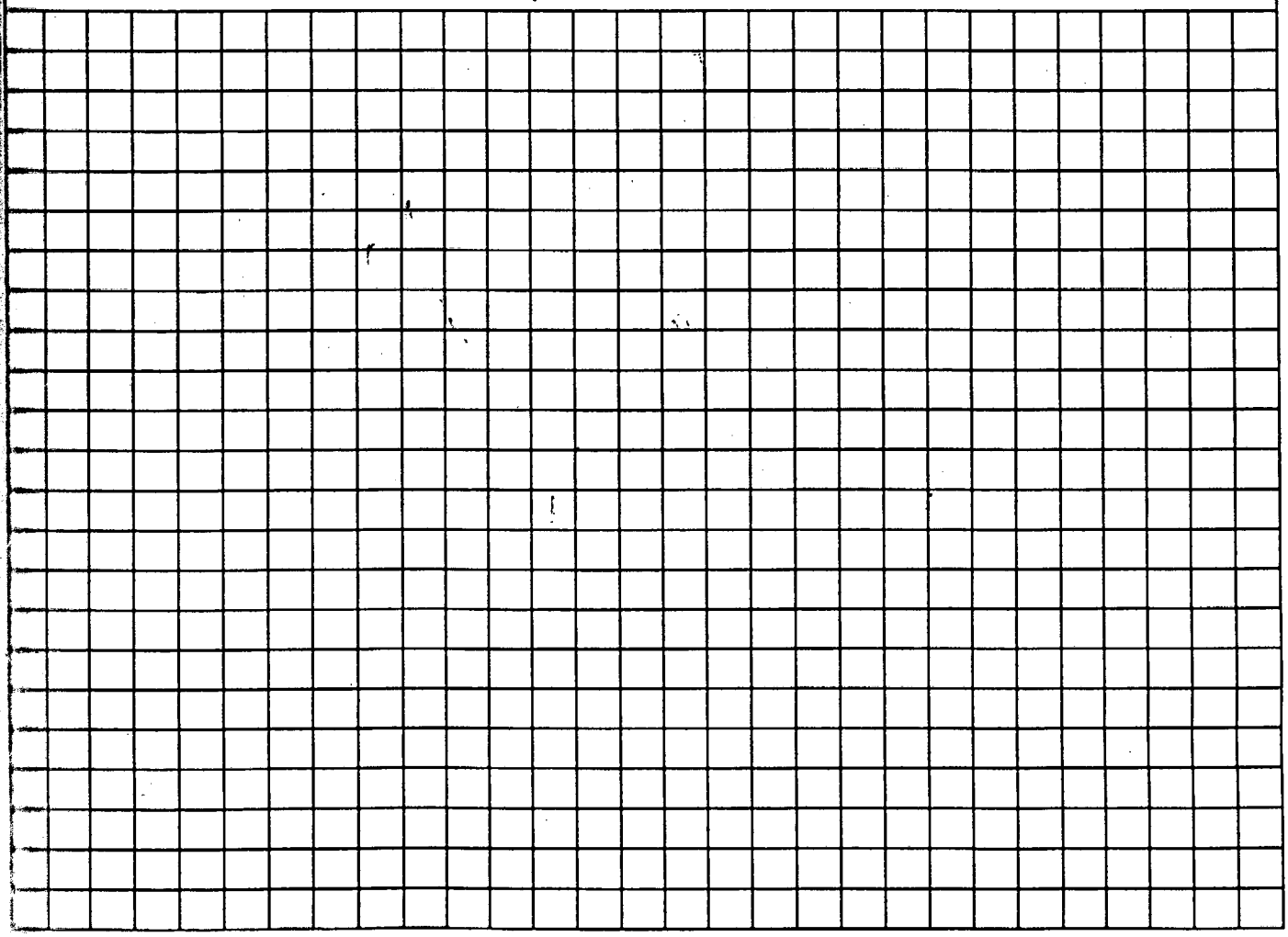
HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27, SB04	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0' x 2.0" steel rods; acetate liners	8. HOLE LOCATION: SWMU 27, SB04	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/16/05	11. DATE COMPLETED: 9/16/05
12. OVERBURDEN THICKNESS: > 12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY): SVOCs	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		

LOCATION SKETCH/COMMENTS: See page 3

SCALE:



etc.)

(Signature and Date)

PP4/SB04 44

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Concrete				
	1	lt grey Sandy CLAY (SC) 7.5YR 5/8 little Sand	1-2 0.0			
	2					
	SC		2-4 12.2			
	SP 3	lt brown, well sorted Sand (SP), angular / med sized moist 10 YR 4/3				
	4		4-6 12.3			
	5					
	6 SC	lt grey 7.5 YR 5/8 sandy CLAY ≈30% sand moist to wet - Sand, med sized angular	6-8 63			petro odor
	7					
	8		8-10 190			
	9					
	SP	lt grey vfu sorted Sand (SP) moist to wet 7.5 YR 5/8 ≈ 20% to CLAY				
	10					

DP4 ISB04 45

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above	10-12			petro odor
	12		226		Sample	
		TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP5/SB5 33

HTRW DRILLING LOG

DISTRICT: USACE Savannah

HOLE NUMBER: SB05

1. COMPANY NAME: SAIC

2. DRILL SUBCONTRACTOR: SAIC E & S

SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter

4. LOCATION: SWMU 27

5. NAME OF DRILLER: Bobby Lewis

6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" Steel rods; acetate liner

8. HOLE LOCATION: SWMU 27, SB05

9. SURFACE ELEVATION: TBD

10. DATE STARTED: 9/16/05

11. DATE COMPLETED: 9/16/05

12. OVERBURDEN THICKNESS: 12'

15. DEPTH GROUNDWATER ENCOUNTERED: NA

13. DEPTH DRILLED INTO ROCK: na

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA

14. TOTAL DEPTH OF HOLE: 12'

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: na			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY): SVOCs	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS: See page 3

SCALE:

(Signature and Date) etc.)

DPS / SB5

34

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Deady | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		concrete	@			
	1	lt grey SAND CLAY (SC), 7.5 YR 5/8, little sand	1-2 0.0			
	2					
	3 SC		2-4 7.2			
	4	lt brown well sorted SAND (SP), angular, med sized, moist, orange oxidations 10 YR 4/3				
	5		4-6 11.4			
	6 SP					
	7	lt grey 7.5 YR 5/8, lt brown 10 YR 4/3 Sandy Clay (SC) ~ 30% Sand, angular, med sized	6-8 1.0 10.0			
	8					
	9 SC		8-10 33.5		9.5 to 10.5	petro odor 8-12
	SP 10	lt grey well sorted SAND SP, ~ 10% fines, moist to wet, 7.5 YR 5/8				

DP5/SB05 35'

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above				
	12	TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DPT6 / SB06

13

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER SB06
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" x 4' steel rods, acetate lined	8. HOLE LOCATION: SWMU 27 SB06	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: > 12.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			BVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

LOCATION SKETCH/COMMENTS: See page 3 of this book. SCALE:

DPT6 / SB06

14

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Hand auger 0-4	0-4 hand auger			
	2					
	3					
	4					
	5	lt brown well sorted Sand, med, angular, moist 2.5YR 6/6 SP	4-6 22.0			PID readings could be due to moisture
	6	SC lt brown 2.5YR 6/6 lt gray N 7/1 Sandy Clay med stiff, moist Sand= angular, med	6-8 4.9			
	7					
	8		8-10 5.8			
	9					
	10					

DPT-6 / SB-06

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above ↓	10-12 21.4		10-12' Id # 751681	
	12	TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP7-SB07?

HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC, E+S	SHEET 1 OF ~~3~~

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: TJ-SB-7 or DP7
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" SHAL TOOLS; acetate liners	8. HOLE LOCATION: SWMU 27, DP7
	9. SURFACE ELEVATION: TBD
	10. DATE STARTED: 9/16/05 — 11. DATE COMPLETED: 9/16/05
12. OVERBURDEN THICKNESS: > 16.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
14. TOTAL DEPTH OF HOLE: 16.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			

LOCATION SKETCH/COMMENTS: See page 3 — SCALE:

DP7-SB07

HTRW DRILLING LOG

HOLE NUMBER 14

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Deady | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Concrete				
	1	lt grey Sandy CLAY (SC) 7.5 YR 5/8 little sand	1-2 ~~13.7~~ 0.7			
	SC 2					
	SP	lt brown 10 YR 4/3 - well sorted SAND (SP) - angular - med sized - moist - orange oxidations throughout	2-4 0.0			
	3					
	4		4-6 0.4			
	5					
	6 SP					
	SC	lt grey 7.5 YR 5/8 lt brown 10YR 4/3 Sandy CLAY (SC) ± 30% sand, angular med sized	6-8 2.5			Sandy CLAY is not a continuing layer.
	7					
	8 SC					
	SP	lt brown 10 YR 4/3 - well sorted, angular, med sized SAND - (SP) - moist to wet and lt grey 7.5YR 5/8 (<10% fines)	8-10 1.4			
	9					
	10					

HTRW DRILLING LOG

HOLE NUMBER SB-07 (DP7) 15

PROJECT: Fort Stewart/Hunter | INSPECTOR | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	same as above wet to very wet	10-12 0.0			
	12		12-14 0.4			
	13					
	14		14-16 1.0			
	15					
	16					TD = 16.0'
	17					
	18					
	19					
	20					

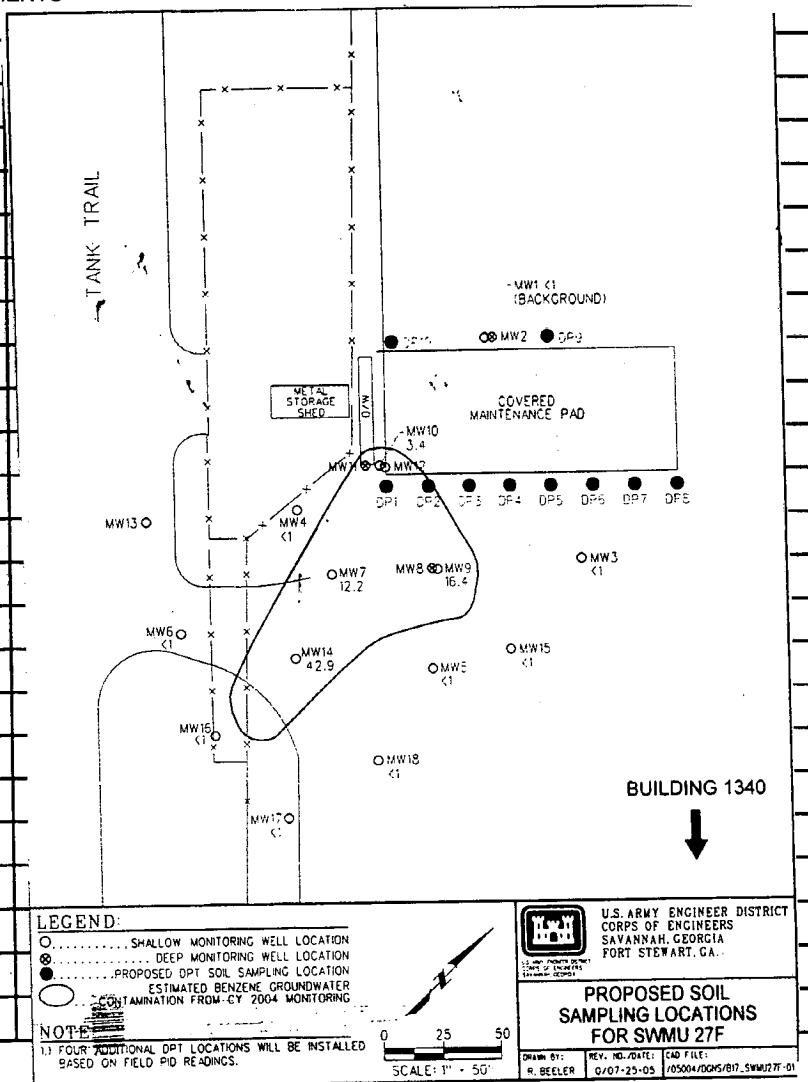
DP8 / SB-08 3

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SD 7J - SB-08	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL:	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" Steel Rods acetate lined	8. HOLE LOCATION: SWMU 27, SB08	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/15/05	11. DATE COMPLETED: 9/15/05
12. OVERBURDEN THICKNESS: > 18.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 18.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY): SVOCs	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: James Ramsey		

LOCATION SKETCH/COMMENTS — SCALE:



DP8 / TJ-SB-08 4

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Deady | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Concrete				
	1	well sorted lt brown Sand, <10% fines (SP) 10YR 4/3	0-2 0.0			
	2		2-4 0.0			
	3					
	4		4-6 0.0			
	5	SP Sandy CLAY (SC) lt grey 10Y 6/2 lt brown 10YR 4/3 ~30% Sand				Not a confining clay layer
	6	SC lt grey 10Y 6/2 greenish brown well Sorted Sand, <10% fines angular med sized Sand moist 7.5YR 5/8	6-8 0.0			
	7					
	8		8-10 0.0			
	9	SP Greenish brown well sorted SAND, angular, med grained 7.5YR 5/8, moist				
	10	SP				

DP8 / 7J-SB-0805

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Reedy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	10-12		0.0			
	11	Same as above. progressively getting wetter.			10-12' id # 7J1881	
	12		12-14 0.0			NO clay layers
	13					
	14		14-16 0.0			
	15					
	16		16-18 0.0			
	17					
	18					DPT refusal 18.0' bgs
	19					
	20					

DP91 SB09 23

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC ES S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" x 4' steel rods, acetate lined	8. HOLE LOCATION: SWMU 27 SB09	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: 12.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				James Purdy

LOCATION SKETCH/COMMENTS: see page 3

SCALE:

(Signature and Date)

etc.)

DP9 / SB09

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HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1		~~0-2~~			
	2	Hand Auger 0-4. utilities	0-4 Hand Auger			
	3					
	4	lt brown, well sorted, med, angular, SAND (SP), moist 2.5YR 6/6	4-6 3.7			
	5	SP				
	6	lt grey N 7/1 lt brown 2.5YR 6/6 Sandy Clay, moist Sand = angular, med SC ≈ 40% Sand				
	7		6-8 2.8			
	8					
	9	lt grey SANDY CLAY ≈ 20% Sand, mix to wet N 7/1 SC	8-10 2.6			
	10					

DP91 SB09

25

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter

INSPECTOR

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above	10-12			
			6.2		10-12'	
					id # 75 1981	
	12	SC				
		TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP 10TSB10073

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27, DP10	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" Steel rods acetate lined	8. HOLE LOCATION: SWMU 27, DP 10	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: 12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY): SVOCs	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		

LOCATION SKETCH/COMMENTS: See page 3

SCALE:

DP10/SB10

HTRW DRILLING LOG

HOLE NUMBER 74

PROJECT: Fort Stewart/Hunter

INSPECTOR J. Dendy

SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0		0-2 0.0			
	1					
	2	Hand Auger due to utilities	2-4 0.0			
	3					
	4					
	5	lt brown 2.5YR 6/6 well sorted med moist Sand (SP)	4-6 0.0			
	6		6-8 0.0			
	7					
	8		8-10 0.0			
	9					
	10	lt brown, med stiff moist CLAY, some Sand (CL/SC) 2.5YR 6/6 - Sandy CLAY				

DP10 / SB10 - 75'

HTRW DRILLING LOG

HOLE NUMBER DP10

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above Sandy CLAY. ±40% Sand	10-12 8.1			
	12	lt grey N 7/ well sorted angular med sand (SP)				
		TD = 12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

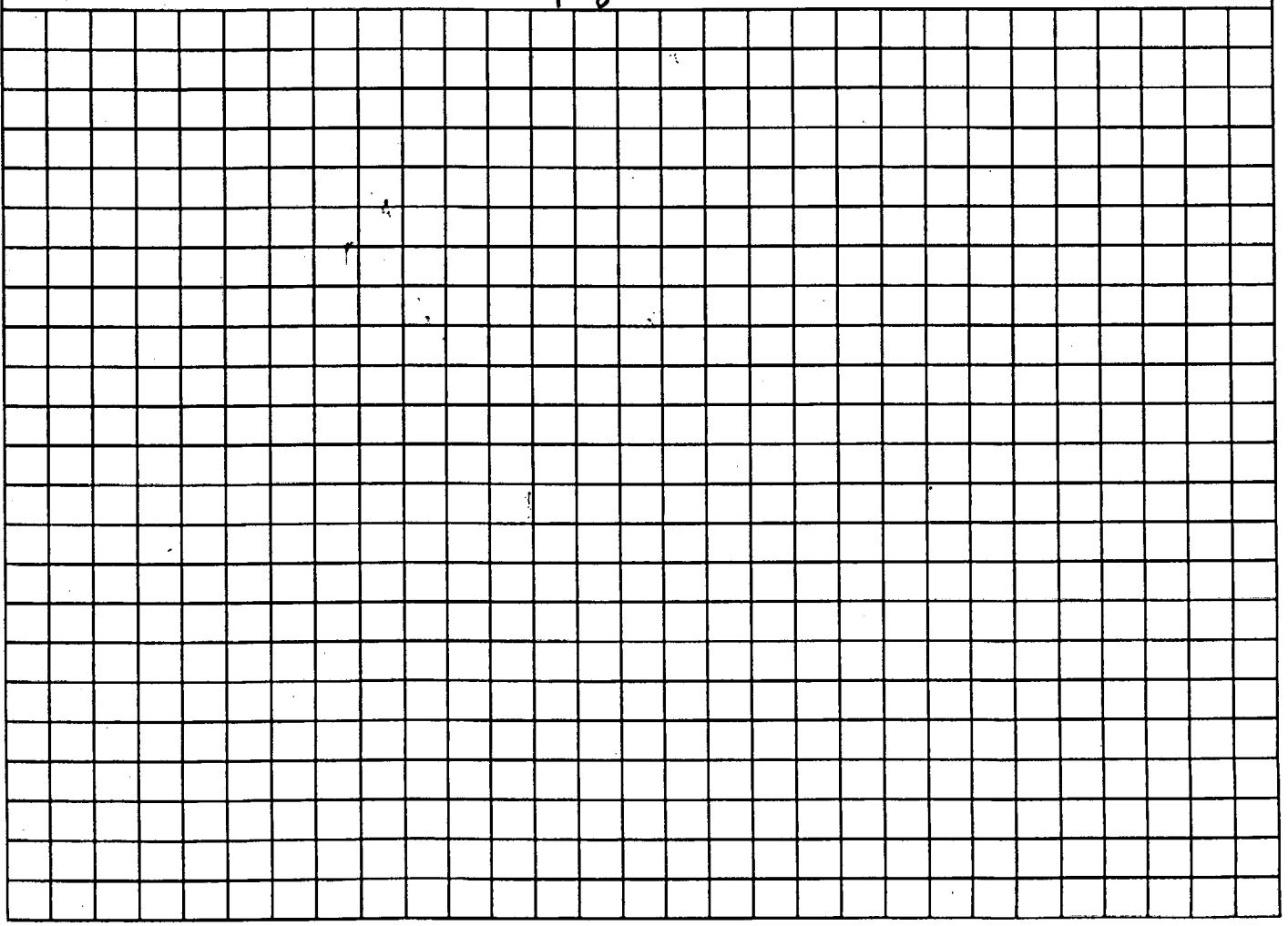
93

HTRW DRILLING LOG

	DISTRICT: USACE Savannah	HOLE NUMBER DP11/SB11
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC. E+S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: Swmu 27, DP11/SB11	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" X 2.0" Steel rods, acetate liners	8. HOLE LOCATION: Swmu 27 DP11/SB11	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: 12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X			James Dey		

LOCATION SKETCH/COMMENTS: See page 3 SCALE:



(signature and date) etc.)

DP11/SB11 94

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Hand Auger 0-4	NA hand auger			
	4					
	SP	lt brown well sorted sand, med, angular moist	4-6 49.0			
	5		0.4			
	SC	lt brown 2.5YR 6/6 lt grey N 7/1 Sandy Clay. moist sand = ± 40%, angular med	6-8 49.0			
	7					
	8		8-10 78.0			
	9					
	10					

DP11/SB11 95

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above.	10-12			
		SC	97.0			
	12	TD=1210				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP12 / SB12

33

HTRW DRILLING LOG

	DISTRICT: USACE Savannah	HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27 SB12	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2.0" x 4' Steel rods, acetate liners	8. HOLE LOCATION: SWMU 27 SB12	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/19/05	11. DATE COMPLETED: 9/19/05
12. OVERBURDEN THICKNESS: 12.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			

LOCATION SKETCH/COMMENTS: See page 3

SCALE:

(Signature and Date)

DP12 / SB12

34

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	0-4 Hand Auger	0-4 Hand Auger			
	2					
	3					
	4	lt grey N 7/1 well sorted, med, angular Sand (SP)	4-6 0.8			
	5	lt brown Sandy Clay 2.5YR 6/6 med stiff SC				
	6		6-8 61.0			
	7				8-10' id # 7J1881	
	8		~~10-12~~ 8-10 71.0			
	9					
SC / CL	10	SC lt grey N 7/1, hard CLAY, No Sand (CL)				

DP12 / ~~SP~~ SB12 35

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as above	10-12 1,3			
	12	CL				
		TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP13 / SB13 43

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC &? S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2.0" x 4.0" acetate lined	8. HOLE LOCATION: SWMU27 SB13	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/20/05	11. DATE COMPLETED: 9/20/05
12. OVERBURDEN THICKNESS: 12.0'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY): SVOCs	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: x	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: James Purdy		

LOCATION SKETCH/COMMENTS: See page 3 SCALE:

(Signature and Date)

DP13/ SB13

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HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Concrete				
	1					
	2	Hand auger 0-4 utilities				
	3					
	4					
		lt brown 2.5Y 6/6 well sorted sorted, angular, moist	4-6 15.7			
	5	SP				
		SC lt grey N 7/1 yellowish brown 10YR 4/6 moist, sandy clay, sand = med, angular,	6-8 39.0			
	7					
	8		8-10 54.0			
	9					
	10					

DP13 / SB13 45

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Denby | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	SC lt grey well sorted, med moist to wet, angular, Sand. N 7/1	10-12 245.0		10-12A Id # FJ1081	
	12	SP TD=12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

DP14 / SB14 5 3

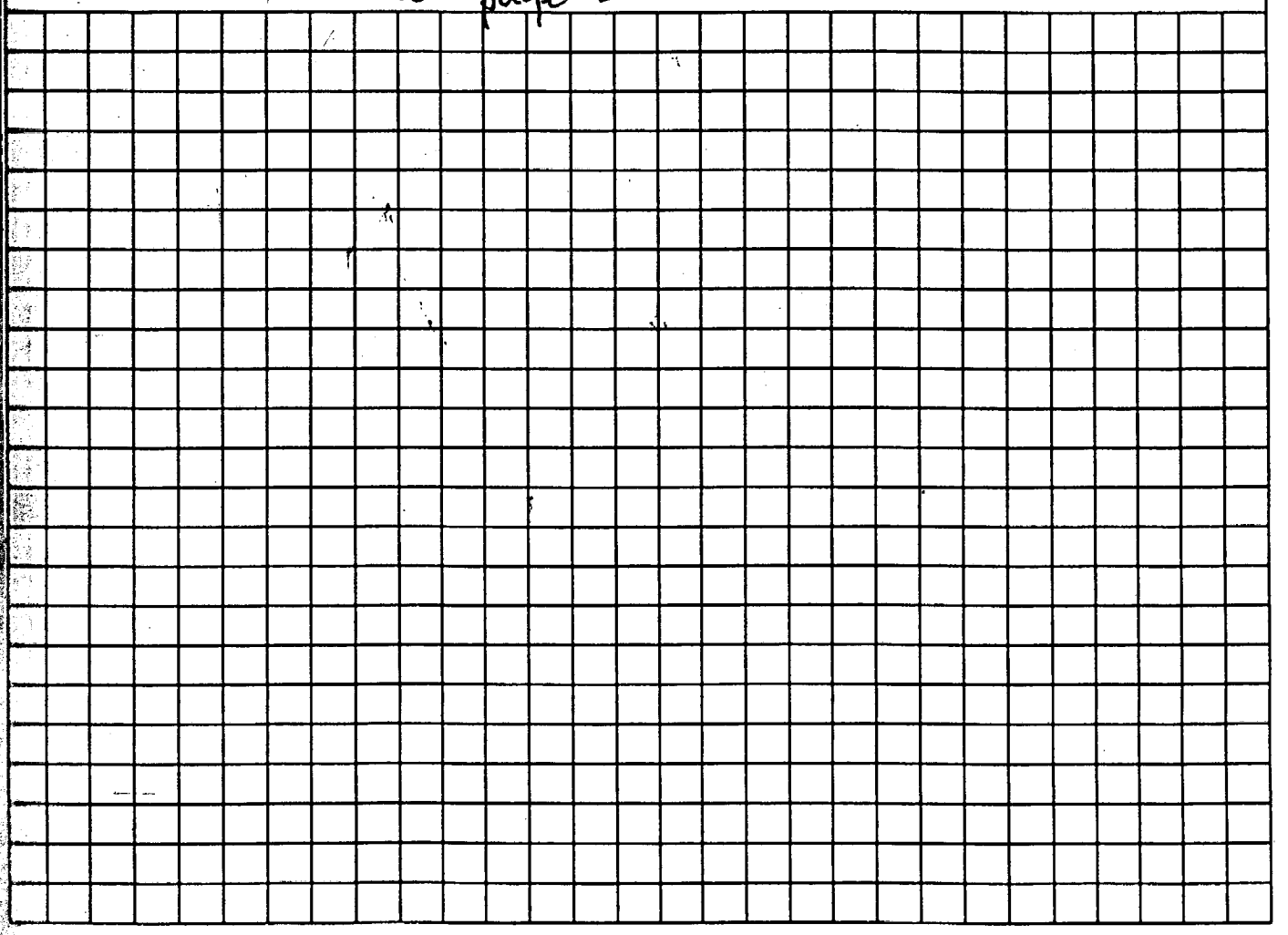
HTRW DRILLING LOG

	DISTRICT: USACE Savannah	HOLE NUMBER SB14
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC E & S	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: SWMU 27	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4.0" x 2.0" Steel Rods, acetate liners	8. HOLE LOCATION: SWMU 27, SB14	
	9. SURFACE ELEVATION: TBD	
	10. DATE STARTED: 9/20/05	11. DATE COMPLETED: 9/20/05
12. OVERBURDEN THICKNESS: > 12.0' bgs	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
			SVOCs			
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

LOCATION SKETCH/COMMENTS: See page 3

SCALE:



(Signature and Date)

etc.)

DP141 SB14

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Concrete				
	1	0-4 Hand Auger				
	2					
	3					
	4	Dk brown 2.5Y 2.5/1 well sorted, angular, moist Sand, moist.	4-6 2.7			
	5	SP / SC lt. grey, N 7/1 lt brown 2.5Y 6/6 Sandy Clay, moist med stiff. Sand= angular, med	6-8 31.4		6-8' 1dA 7J1K81 & 7J1K21	
	6					
	7					
	8					
SC	9	SC	8.10 8.3			
CL		lt grey hard Clay N 7/1 No Sand				
	10	CL				

DP14 / SB14

55

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: Fort Stewart/Hunter | INSPECTOR J. Dendy | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Same as ~~above~~ S.0 description	10-12 151.0			
	12	SC SP lt grey well sorted med most angular SAND				
		TD = 12.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

APPENDIX C

ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

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STATE OF GEORGIA
ENVIRONMENTAL LABORATORY ACCREDITATION

	Name of Laboratory:	**General Engineering Laboratories, Inc.**
	Address:	P.O. Box 30712 2040 Savage Road Charleston, SC 29407
	Contact:	Bob Pullano
	Telephone number:	(843) 556-8171
	Fax number:	(843) 766-1178
#1	Accrediting Authority:	**State of South Carolina**
	Accreditation Number:	SC-10120001
	Effective Date:	Extension granted while recertification in process; January 27, 2003
	Expiration Date:	March 26, 2008
	Accreditation Scope:	SDWA, CWA, RCRA, CERCLA
#2	Accrediting Authority:	**State of Florida**
	Accreditation Number:	E-87156
	Effective Date:	July 1, 2001 (initial and reaccredited on July 1 each year thereafter)
	Expiration Date:	June 30, 2008
	Accreditation Scope:	SDWA, CWA, RCRA, CERCLA

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ANALYTICAL SOIL RESULTS AND CHAIN-OF-CUSTODY FORMS

SEPTEMBER 2005

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Fort Stewart - SWMU 27F

Station: 7J-SB-01
Sample ID: 7J1181 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	864	UG/KG		J	G02	105	1
	Ethylbenzene	3300	UG/KG		J	G02	105	1
	Toluene	4220	UG/KG		J	G02	105	1
	Xylenes, Total	17800	UG/KG		J	G02	105	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	407	UG/KG	U	U		407	1
	1,2-Dichlorobenzene	407	UG/KG	U	U		407	1
	1,3-Dichlorobenzene	407	UG/KG	U	U		407	1
	1,4-Dichlorobenzene	407	UG/KG	U	U		407	1
	2,4,5-Trichlorophenol	407	UG/KG	U	U		407	1
	2,4,6-Trichlorophenol	407	UG/KG	U	U		407	1
	2,4-Dichlorophenol	407	UG/KG	U	U		407	1
	2,4-Dimethylphenol	407	UG/KG	U	U		407	1
	2,4-Dinitrophenol	814	UG/KG	U	U		814	1
	2,4-Dinitrotoluene	407	UG/KG	U	U		407	1
	2,6-Dinitrotoluene	407	UG/KG	U	U		407	1
	2-Chloronaphthalene	40.7	UG/KG	U	U		40.7	1
	2-Chlorophenol	407	UG/KG	U	U		407	1
	2-Methyl-4,6-dinitrophenol	407	UG/KG	U	U		407	1
	2-Methylnaphthalene	337	UG/KG		=		40.7	1
	2-Methylphenol	407	UG/KG	U	U		407	1
	2-Nitroaniline	407	UG/KG	U	U		407	1
	2-Nitrophenol	407	UG/KG	U	U		407	1
	3,3'-Dichlorobenzidine	407	UG/KG	U	U		407	1
	3-Nitroaniline	407	UG/KG	U	U		407	1
	4-Bromophenyl phenyl ether	407	UG/KG	U	U		407	1
	4-Chloro-3-methylphenol	407	UG/KG	U	U		407	1
	4-Chloroaniline	407	UG/KG	U	U		407	1
	4-Chlorophenyl phenyl ether	407	UG/KG	U	U		407	1
	4-Methylphenol	407	UG/KG	U	U		407	1
	4-Nitroaniline	407	UG/KG	U	U		407	1
	4-Nitrophenol	407	UG/KG	U	U		407	1
	Acenaphthene	40.7	UG/KG	U	U		40.7	1
	Acenaphthylene	40.7	UG/KG	U	U		40.7	1
	Anthracene	66.9	UG/KG		=		40.7	1
	Benz(a)anthracene	40.7	UG/KG	U	U		40.7	1
	Benzenemethanol	407	UG/KG	U	U		407	1
	Benzo(a)pyrene	40.7	UG/KG	U	U		40.7	1
	Benzo(b)fluoranthene	40.7	UG/KG	U	U		40.7	1
	Benzo(ghi)perylene	40.7	UG/KG	U	U		40.7	1
	Benzo(k)fluoranthene	40.7	UG/KG	U	U		40.7	1
	Benzoic acid	814	UG/KG	U	U		814	1
	Bis(2-chloroethoxy)methane	407	UG/KG	U	U		407	1
	Bis(2-chloroethyl) ether	407	UG/KG	U	U		407	1
	Bis(2-chloroisopropyl) ether	407	UG/KG	U	U		407	1
	Bis(2-ethylhexyl)phthalate	407	UG/KG	U	U		407	1
	Butyl benzyl phthalate	407	UG/KG	U	U		407	1
	Carbazole	407	UG/KG	U	U		407	1
	Chrysene	40.7	UG/KG	U	U		40.7	1
	Di-n-butyl phthalate	407	UG/KG	U	U		407	1
	Di-n-octylphthalate	407	UG/KG	U	U		407	1
	Dibenz(a,h)anthracene	40.7	UG/KG	U	U		40.7	1
	Dibenzofuran	407	UG/KG	U	U		407	1
	Diethyl phthalate	407	UG/KG	U	U		407	1
	Dimethyl phthalate	407	UG/KG	U	U		407	1

Station: 7J-SB-01
Sample ID: 7J1181 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Diphenylamine	226	UG/KG	J	J		407	1
	Fluoranthene	40.7	UG/KG	U	U		40.7	1
	Fluorene	111	UG/KG		=		40.7	1
	Hexachlorobenzene	407	UG/KG	U	U		407	1
	Hexachlorobutadiene	407	UG/KG	U	U		407	1
	Hexachlorocyclopentadiene	407	UG/KG	U	U		407	1
	Hexachloroethane	407	UG/KG	U	U		407	1
	Indeno(1,2,3-cd)pyrene	40.7	UG/KG	U	U		40.7	1
	Isophorone	407	UG/KG	U	U		407	1
	N-Nitroso-di-n-propylamine	407	UG/KG	U	U		407	1
	Naphthalene	31.1	UG/KG	J	J		40.7	1
	Nitrobenzene	407	UG/KG	U	U		407	1
	Pentachlorophenol	407	UG/KG	U	U		407	1
	Phenanthrene	255	UG/KG		=		40.7	1
	Phenol	407	UG/KG	U	U		407	1
	Pyrene	77.5	UG/KG		=		40.7	1

Station: 7J-SB-02
Sample ID: 7J1281 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	85.9	UG/KG	U	UJ	G02	85.9	1
	Ethylbenzene	103	UG/KG		J	G02	85.9	1
	Toluene	85.9	UG/KG	U	UJ	G02	85.9	1
	Xylenes, Total	85.9	UG/KG	U	UJ	G02	85.9	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	378	UG/KG	U	U		378	1
	1,2-Dichlorobenzene	378	UG/KG	U	U		378	1
	1,3-Dichlorobenzene	378	UG/KG	U	U		378	1
	1,4-Dichlorobenzene	378	UG/KG	U	U		378	1
	2,4,5-Trichlorophenol	378	UG/KG	U	U		378	1
	2,4,6-Trichlorophenol	378	UG/KG	U	U		378	1
	2,4-Dichlorophenol	378	UG/KG	U	U		378	1
	2,4-Dimethylphenol	378	UG/KG	U	U		378	1
	2,4-Dinitrophenol	756	UG/KG	U	U		756	1
	2,4-Dinitrotoluene	378	UG/KG	U	U		378	1
	2,6-Dinitrotoluene	378	UG/KG	U	U		378	1
	2-Chloronaphthalene	37.8	UG/KG	U	U		37.8	1
	2-Chlorophenol	378	UG/KG	U	U		378	1
	2-Methyl-4,6-dinitrophenol	378	UG/KG	U	U		378	1
	2-Methylnaphthalene	4780	UG/KG	E	J	N03	37.8	1
	2-Methylphenol	378	UG/KG	U	U		378	1
	2-Nitroaniline	378	UG/KG	U	U		378	1
	2-Nitrophenol	378	UG/KG	U	U		378	1
	3,3'-Dichlorobenzidine	378	UG/KG	U	U		378	1
	3-Nitroaniline	378	UG/KG	U	U		378	1
	4-Bromophenyl phenyl ether	378	UG/KG	U	U		378	1
	4-Chloro-3-methylphenol	378	UG/KG	U	U		378	1
	4-Chloroaniline	378	UG/KG	U	U		378	1
	4-Chlorophenyl phenyl ether	378	UG/KG	U	U		378	1
	4-Methylphenol	378	UG/KG	U	U		378	1

Station: 7J-SB-02
Sample ID: 7J1281 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Nitroaniline	378	UG/KG	U	U		378	1
	4-Nitrophenol	378	UG/KG	U	U		378	1
	Acenaphthene	37.8	UG/KG	U	U		37.8	1
	Acenaphthylene	37.8	UG/KG	U	U		37.8	1
	Anthracene	493	UG/KG		=		37.8	1
	Benz(a)anthracene	37.8	UG/KG	U	U		37.8	1
	Benzenemethanol	378	UG/KG	U	U		378	1
	Benzo(a)pyrene	37.8	UG/KG	U	U		37.8	1
	Benzo(b)fluoranthene	37.8	UG/KG	U	U		37.8	1
	Benzo(ghi)perylene	37.8	UG/KG	U	U		37.8	1
	Benzo(k)fluoranthene	37.8	UG/KG	U	U		37.8	1
	Benzoic acid	756	UG/KG	U	U		756	1
	Bis(2-chloroethoxy)methane	378	UG/KG	U	U		378	1
	Bis(2-chloroethyl) ether	378	UG/KG	U	U		378	1
	Bis(2-chloroisopropyl) ether	378	UG/KG	U	U		378	1
	Bis(2-ethylhexyl)phthalate	378	UG/KG	U	U		378	1
	Butyl benzyl phthalate	378	UG/KG	U	U		378	1
	Carbazole	378	UG/KG	U	U		378	1
	Chrysene	37.8	UG/KG	U	U		37.8	1
	Di-n-butyl phthalate	378	UG/KG	U	U		378	1
	Di-n-octylphthalate	378	UG/KG	U	U		378	1
	Dibenz(a,h)anthracene	37.8	UG/KG	U	U		37.8	1
	Dibenzofuran	378	UG/KG	U	U		378	1
	Diethyl phthalate	378	UG/KG	U	U		378	1
	Dimethyl phthalate	378	UG/KG	U	U		378	1
	Diphenylamine	1820	UG/KG		=		378	1
	Fluoranthene	238	UG/KG		=		37.8	1
	Fluorene	899	UG/KG		=		37.8	1
	Hexachlorobenzene	378	UG/KG	U	U		378	1
	Hexachlorobutadiene	378	UG/KG	U	U		378	1
	Hexachlorocyclopentadiene	378	UG/KG	U	U		378	1
	Hexachloroethane	378	UG/KG	U	U		378	1
	Indeno(1,2,3-cd)pyrene	37.8	UG/KG	U	U		37.8	1
	Isophorone	378	UG/KG	U	U		378	1
	N-Nitroso-di-n-propylamine	378	UG/KG	U	U		378	1
	Naphthalene	658	UG/KG		=		37.8	1
	Nitrobenzene	378	UG/KG	U	U		378	1
	Pentachlorophenol	378	UG/KG	U	U		378	1
	Phenanthrene	2090	UG/KG		=		37.8	1
	Phenol	378	UG/KG	U	U		378	1
	Pyrene	632	UG/KG		=		37.8	1

Station: 7J-SB-03
Sample ID: 7J1381 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	89.9	UG/KG	U	U		89.9	1
	Ethylbenzene	33.7	UG/KG	J	J		89.9	1
	Toluene	89.9	UG/KG	U	U		89.9	1
	Xylenes, Total	89.8	UG/KG	J	J		89.9	1
Semi-Volatile Organics	General Engineering Laboratory							

Station: 7J-SB-03
Sample ID: 7J1381 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	378	UG/KG	U	U		378	1
	1,2-Dichlorobenzene	378	UG/KG	U	U		378	1
	1,3-Dichlorobenzene	378	UG/KG	U	U		378	1
	1,4-Dichlorobenzene	378	UG/KG	U	U		378	1
	2,4,5-Trichlorophenol	378	UG/KG	U	U		378	1
	2,4,6-Trichlorophenol	378	UG/KG	U	U		378	1
	2,4-Dichlorophenol	378	UG/KG	U	U		378	1
	2,4-Dimethylphenol	378	UG/KG	U	U		378	1
	2,4-Dinitrophenol	756	UG/KG	U	U		756	1
	2,4-Dinitrotoluene	378	UG/KG	U	U		378	1
	2,6-Dinitrotoluene	378	UG/KG	U	U		378	1
	2-Chloronaphthalene	37.8	UG/KG	U	U		37.8	1
	2-Chlorophenol	378	UG/KG	U	U		378	1
	2-Methyl-4,6-dinitrophenol	378	UG/KG	U	U		378	1
	2-Methylnaphthalene	100	UG/KG		=		37.8	1
	2-Methylphenol	378	UG/KG	U	U		378	1
	2-Nitroaniline	378	UG/KG	U	U		378	1
	2-Nitrophenol	378	UG/KG	U	U		378	1
	3,3'-Dichlorobenzidine	378	UG/KG	U	U		378	1
	3-Nitroaniline	378	UG/KG	U	U		378	1
	4-Bromophenyl phenyl ether	378	UG/KG	U	U		378	1
	4-Chloro-3-methylphenol	378	UG/KG	U	U		378	1
	4-Chloroaniline	378	UG/KG	U	U		378	1
	4-Chlorophenyl phenyl ether	378	UG/KG	U	U		378	1
	4-Methylphenol	378	UG/KG	U	U		378	1
	4-Nitroaniline	378	UG/KG	U	U		378	1
	4-Nitrophenol	378	UG/KG	U	U		378	1
	Acenaphthene	37.8	UG/KG	U	U		37.8	1
	Acenaphthylene	37.8	UG/KG	U	U		37.8	1
	Anthracene	34.9	UG/KG	J	J		37.8	1
	Benz(a)anthracene	37.8	UG/KG	U	U		37.8	1
	Benzenemethanol	378	UG/KG	U	U		378	1
	Benzo(a)pyrene	37.8	UG/KG	U	U		37.8	1
	Benzo(b)fluoranthene	37.8	UG/KG	U	U		37.8	1
	Benzo(ghi)perylene	37.8	UG/KG	U	U		37.8	1
	Benzo(k)fluoranthene	37.8	UG/KG	U	U		37.8	1
	Benzoic acid	756	UG/KG	U	U		756	1
	Bis(2-chloroethoxy)methane	378	UG/KG	U	U		378	1
	Bis(2-chloroethyl) ether	378	UG/KG	U	U		378	1
	Bis(2-chloroisopropyl) ether	378	UG/KG	U	U		378	1
	Bis(2-ethylhexyl)phthalate	378	UG/KG	U	U		378	1
	Butyl benzyl phthalate	378	UG/KG	U	U		378	1
	Carbazole	378	UG/KG	U	U		378	1
	Chrysene	37.8	UG/KG	U	U		37.8	1
	Di-n-butyl phthalate	378	UG/KG	U	U		378	1
	Di-n-octylphthalate	378	UG/KG	U	U		378	1
	Dibenz(a,h)anthracene	37.8	UG/KG	U	U		37.8	1
	Dibenzofuran	378	UG/KG	U	U		378	1
	Diethyl phthalate	378	UG/KG	U	U		378	1
	Dimethyl phthalate	378	UG/KG	U	U		378	1
	Diphenylamine	378	UG/KG	U	U		378	1
	Fluoranthene	37.8	UG/KG	U	U		37.8	1
	Fluorene	42.9	UG/KG		=		37.8	1
	Hexachlorobenzene	378	UG/KG	U	U		378	1
	Hexachlorobutadiene	378	UG/KG	U	U		378	1
	Hexachlorocyclopentadiene	378	UG/KG	U	U		378	1

Station: 7J-SB-03
Sample ID: 7J1381 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Hexachloroethane	378	UG/KG	U	U		378	1
	Indeno(1,2,3-cd)pyrene	37.8	UG/KG	U	U		37.8	1
	Isophorone	378	UG/KG	U	U		378	1
	N-Nitroso-di-n-propylamine	378	UG/KG	U	U		378	1
	Naphthalene	37.8	UG/KG	U	U		37.8	1
	Nitrobenzene	378	UG/KG	U	U		378	1
	Pentachlorophenol	378	UG/KG	U	U		378	1
	Phenanthrene	138	UG/KG		=		37.8	1
	Phenol	378	UG/KG	U	U		378	1
	Pyrene	26.9	UG/KG	J	J		37.8	1

Station: 7J-SB-04
Sample ID: 7J1481 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	64.4	UG/KG	J	J		90.4	1
	Ethylbenzene	644	UG/KG		=		90.4	1
	Toluene	90.4	UG/KG	U	U		90.4	1
	Xylenes, Total	1850	UG/KG		=		90.4	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	368	UG/KG	U	U		368	1
	1,2-Dichlorobenzene	368	UG/KG	U	U		368	1
	1,3-Dichlorobenzene	368	UG/KG	U	U		368	1
	1,4-Dichlorobenzene	368	UG/KG	U	U		368	1
	2,4,5-Trichlorophenol	368	UG/KG	U	U		368	1
	2,4,6-Trichlorophenol	368	UG/KG	U	U		368	1
	2,4-Dichlorophenol	368	UG/KG	U	U		368	1
	2,4-Dimethylphenol	368	UG/KG	U	U		368	1
	2,4-Dinitrophenol	735	UG/KG	U	U		735	1
	2,4-Dinitrotoluene	368	UG/KG	U	U		368	1
	2,6-Dinitrotoluene	368	UG/KG	U	U		368	1
	2-Chloronaphthalene	36.8	UG/KG	U	U		36.8	1
	2-Chlorophenol	368	UG/KG	U	U		368	1
	2-Methyl-4,6-dinitrophenol	368	UG/KG	U	U		368	1
	2-Methylnaphthalene	552	UG/KG		=		36.8	1
	2-Methylphenol	368	UG/KG	U	U		368	1
	2-Nitroaniline	368	UG/KG	U	U		368	1
	2-Nitrophenol	368	UG/KG	U	U		368	1
	3,3'-Dichlorobenzidine	368	UG/KG	U	U		368	1
	3-Nitroaniline	368	UG/KG	U	U		368	1
	4-Bromophenyl phenyl ether	368	UG/KG	U	U		368	1
	4-Chloro-3-methylphenol	368	UG/KG	U	U		368	1
	4-Chloroaniline	368	UG/KG	U	U		368	1
	4-Chlorophenyl phenyl ether	368	UG/KG	U	U		368	1
	4-Methylphenol	368	UG/KG	U	U		368	1
	4-Nitroaniline	368	UG/KG	U	U		368	1
	4-Nitrophenol	368	UG/KG	U	U		368	1
	Acenaphthene	101	UG/KG		=		36.8	1
	Acenaphthylene	36.8	UG/KG	U	U		36.8	1
	Anthracene	117	UG/KG		=		36.8	1
	Benz(a)anthracene	36.8	UG/KG	U	U		36.8	1

Station: 7J-SB-04
Sample ID: 7J1481 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Benzenemethanol	368	UG/KG	U	U		368	1
	Benzo(a)pyrene	36.8	UG/KG	U	U		36.8	1
	Benzo(b)fluoranthene	36.8	UG/KG	U	U		36.8	1
	Benzo(ghi)perylene	36.8	UG/KG	U	U		36.8	1
	Benzo(k)fluoranthene	36.8	UG/KG	U	U		36.8	1
	Benzoic acid	735	UG/KG	U	U		735	1
	Bis(2-chloroethoxy)methane	368	UG/KG	U	U		368	1
	Bis(2-chloroethyl) ether	368	UG/KG	U	U		368	1
	Bis(2-chloroisopropyl) ether	368	UG/KG	U	U		368	1
	Bis(2-ethylhexyl)phthalate	368	UG/KG	U	U		368	1
	Butyl benzyl phthalate	368	UG/KG	U	U		368	1
	Carbazole	368	UG/KG	U	U		368	1
	Chrysene	36.8	UG/KG	U	U		36.8	1
	Di-n-butyl phthalate	368	UG/KG	U	U		368	1
	Di-n-octylphthalate	368	UG/KG	U	U		368	1
	Dibenz(a,h)anthracene	36.8	UG/KG	U	U		36.8	1
	Dibenzofuran	368	UG/KG	U	U		368	1
	Diethyl phthalate	368	UG/KG	U	U		368	1
	Dimethyl phthalate	368	UG/KG	U	U		368	1
	Diphenylamine	313	UG/KG	J	J		368	1
	Fluoranthene	36.8	UG/KG	U	U		36.8	1
	Fluorene	179	UG/KG		=		36.8	1
	Hexachlorobenzene	368	UG/KG	U	U		368	1
	Hexachlorobutadiene	368	UG/KG	U	U		368	1
	Hexachlorocyclopentadiene	368	UG/KG	U	U		368	1
	Hexachloroethane	368	UG/KG	U	U		368	1
	Indeno(1,2,3-cd)pyrene	36.8	UG/KG	U	U		36.8	1
	Isophorone	368	UG/KG	U	U		368	1
	N-Nitroso-di-n-propylamine	368	UG/KG	U	U		368	1
	Naphthalene	62.5	UG/KG		=		36.8	1
	Nitrobenzene	368	UG/KG	U	U		368	1
	Pentachlorophenol	368	UG/KG	U	U		368	1
	Phenanthrene	496	UG/KG		=		36.8	1
	Phenol	368	UG/KG	U	U		368	1
	Pyrene	110	UG/KG		=		36.8	1

Station: 7J-SB-05
Sample ID: 7J1581 Media: Soil Depth: 9.5 - 10.5 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	0.96	UG/KG	U	U		0.96	1
	Ethylbenzene	1.8	UG/KG		=		0.96	1
	Toluene	0.96	UG/KG	U	U		0.96	1
	Xylenes, Total	0.4	UG/KG	J	J		0.96	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	396	UG/KG	U	U		396	1
	1,2-Dichlorobenzene	396	UG/KG	U	U		396	1
	1,3-Dichlorobenzene	396	UG/KG	U	U		396	1
	1,4-Dichlorobenzene	396	UG/KG	U	U		396	1
	2,4,5-Trichlorophenol	396	UG/KG	U	U		396	1
	2,4,6-Trichlorophenol	396	UG/KG	U	U		396	1

Station: 7J-SB-05
Sample ID: 7J1581 Media: Soil Depth: 9.5 - 10.5 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2,4-Dichlorophenol	396	UG/KG	U	U		396	1
	2,4-Dimethylphenol	396	UG/KG	U	U		396	1
	2,4-Dinitrophenol	791	UG/KG	U	U		791	1
	2,4-Dinitrotoluene	396	UG/KG	U	U		396	1
	2,6-Dinitrotoluene	396	UG/KG	U	U		396	1
	2-Chloronaphthalene	39.6	UG/KG	U	U		39.6	1
	2-Chlorophenol	396	UG/KG	U	U		396	1
	2-Methyl-4,6-dinitrophenol	396	UG/KG	U	U		396	1
	2-Methylnaphthalene	497	UG/KG		=		39.6	1
	2-Methylphenol	396	UG/KG	U	U		396	1
	2-Nitroaniline	396	UG/KG	U	U		396	1
	2-Nitrophenol	396	UG/KG	U	U		396	1
	3,3'-Dichlorobenzidine	396	UG/KG	U	U		396	1
	3-Nitroaniline	396	UG/KG	U	U		396	1
	4-Bromophenyl phenyl ether	396	UG/KG	U	U		396	1
	4-Chloro-3-methylphenol	396	UG/KG	U	U		396	1
	4-Chloroaniline	396	UG/KG	U	U		396	1
	4-Chlorophenyl phenyl ether	396	UG/KG	U	U		396	1
	4-Methylphenol	396	UG/KG	U	U		396	1
	4-Nitroaniline	396	UG/KG	U	U		396	1
	4-Nitrophenol	396	UG/KG	U	U		396	1
	Acenaphthene	39.6	UG/KG	U	U		39.6	1
	Acenaphthylene	39.6	UG/KG	U	U		39.6	1
	Anthracene	76.3	UG/KG		=		39.6	1
	Benz(a)anthracene	39.6	UG/KG	U	U		39.6	1
	Benzenemethanol	396	UG/KG	U	U		396	1
	Benzo(a)pyrene	39.6	UG/KG	U	U		39.6	1
	Benzo(b)fluoranthene	39.6	UG/KG	U	U		39.6	1
	Benzo(ghi)perylene	39.6	UG/KG	U	U		39.6	1
	Benzo(k)fluoranthene	39.6	UG/KG	U	U		39.6	1
	Benzoic acid	791	UG/KG	U	U		791	1
	Bis(2-chloroethoxy)methane	396	UG/KG	U	U		396	1
	Bis(2-chloroethyl) ether	396	UG/KG	U	U		396	1
	Bis(2-chloroisopropyl) ether	396	UG/KG	U	U		396	1
	Bis(2-ethylhexyl)phthalate	396	UG/KG	U	U		396	1
	Butyl benzyl phthalate	396	UG/KG	U	U		396	1
	Carbazole	396	UG/KG	U	U		396	1
	Chrysene	39.6	UG/KG	U	U		39.6	1
	Di-n-butyl phthalate	396	UG/KG	U	U		396	1
	Di-n-octylphthalate	396	UG/KG	U	U		396	1
	Dibenz(a,h)anthracene	39.6	UG/KG	U	U		39.6	1
	Dibenzofuran	396	UG/KG	U	U		396	1
	Diethyl phthalate	396	UG/KG	U	U		396	1
	Dimethyl phthalate	396	UG/KG	U	U		396	1
	Diphenylamine	168	UG/KG	J	J		396	1
	Fluoranthene	39.6	UG/KG	U	U		39.6	1
	Fluorene	101	UG/KG		=		39.6	1
	Hexachlorobenzene	396	UG/KG	U	U		396	1
	Hexachlorobutadiene	396	UG/KG	U	U		396	1
	Hexachlorocyclopentadiene	396	UG/KG	U	U		396	1
	Hexachloroethane	396	UG/KG	U	U		396	1
	Indeno(1,2,3-cd)pyrene	39.6	UG/KG	U	U		39.6	1
	Isophorone	396	UG/KG	U	U		396	1
	N-Nitroso-di-n-propylamine	396	UG/KG	U	U		396	1
	Naphthalene	37	UG/KG	J	J		39.6	1
	Nitrobenzene	396	UG/KG	U	U		396	1

Station: 7J-SB-05
Sample ID: 7J1581 Media: Soil Depth: 9.5 - 10.5 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Pentachlorophenol	396	UG/KG	U	U		396	1
	Phenanthrene	259	UG/KG		=		39.6	1
	Phenol	396	UG/KG	U	U		396	1
	Pyrene	51.9	UG/KG		=		39.6	1

Station: 7J-SB-06
Sample ID: 7J1681 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	0.86	UG/KG	U	U		0.86	1
	Ethylbenzene	0.86	UG/KG	U	U		0.86	1
	Toluene	0.86	UG/KG	U	U		0.86	1
	Xylenes, Total	0.86	UG/KG	U	U		0.86	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	379	UG/KG	U	U		379	1
	1,2-Dichlorobenzene	379	UG/KG	U	U		379	1
	1,3-Dichlorobenzene	379	UG/KG	U	U		379	1
	1,4-Dichlorobenzene	379	UG/KG	U	U		379	1
	2,4,5-Trichlorophenol	379	UG/KG	U	U		379	1
	2,4,6-Trichlorophenol	379	UG/KG	U	U		379	1
	2,4-Dichlorophenol	379	UG/KG	U	U		379	1
	2,4-Dimethylphenol	379	UG/KG	U	U		379	1
	2,4-Dinitrophenol	758	UG/KG	U	U		758	1
	2,4-Dinitrotoluene	379	UG/KG	U	U		379	1
	2,6-Dinitrotoluene	379	UG/KG	U	U		379	1
	2-Chloronaphthalene	37.9	UG/KG	U	U		37.9	1
	2-Chlorophenol	379	UG/KG	U	U		379	1
	2-Methyl-4,6-dinitrophenol	379	UG/KG	U	U		379	1
	2-Methylnaphthalene	37.9	UG/KG	U	U		37.9	1
	2-Methylphenol	379	UG/KG	U	U		379	1
	2-Nitroaniline	379	UG/KG	U	U		379	1
	2-Nitrophenol	379	UG/KG	U	U		379	1
	3,3'-Dichlorobenzidine	379	UG/KG	U	U		379	1
	3-Nitroaniline	379	UG/KG	U	U		379	1
	4-Bromophenyl phenyl ether	379	UG/KG	U	U		379	1
	4-Chloro-3-methylphenol	379	UG/KG	U	U		379	1
	4-Chloroaniline	379	UG/KG	U	U		379	1
	4-Chlorophenyl phenyl ether	379	UG/KG	U	U		379	1
	4-Methylphenol	379	UG/KG	U	U		379	1
	4-Nitroaniline	379	UG/KG	U	U		379	1
	4-Nitrophenol	379	UG/KG	U	U		379	1
	Acenaphthene	37.9	UG/KG	U	U		37.9	1
	Acenaphthylene	37.9	UG/KG	U	U		37.9	1
	Anthracene	37.9	UG/KG	U	U		37.9	1
	Benz(a)anthracene	37.9	UG/KG	U	U		37.9	1
	Benzenemethanol	379	UG/KG	U	U		379	1
	Benzo(a)pyrene	37.9	UG/KG	U	U		37.9	1
	Benzo(b)fluoranthene	37.9	UG/KG	U	U		37.9	1
	Benzo(ghi)perylene	37.9	UG/KG	U	U		37.9	1
	Benzo(k)fluoranthene	37.9	UG/KG	U	U		37.9	1
	Benzoic acid	758	UG/KG	U	U		758	1

Station: 7J-SB-06
Sample ID: 7J1681 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Bis(2-chloroethoxy)methane	379	UG/KG	U	U		379	1
	Bis(2-chloroethyl) ether	379	UG/KG	U	U		379	1
	Bis(2-chloroisopropyl) ether	379	UG/KG	U	U		379	1
	Bis(2-ethylhexyl)phthalate	379	UG/KG	U	U		379	1
	Butyl benzyl phthalate	379	UG/KG	U	U		379	1
	Carbazole	379	UG/KG	U	U		379	1
	Chrysene	37.9	UG/KG	U	U		37.9	1
	Di-n-butyl phthalate	379	UG/KG	U	U		379	1
	Di-n-octylphthalate	379	UG/KG	U	U		379	1
	Dibenz(a,h)anthracene	37.9	UG/KG	U	U		37.9	1
	Dibenzofuran	379	UG/KG	U	U		379	1
	Diethyl phthalate	379	UG/KG	U	U		379	1
	Dimethyl phthalate	379	UG/KG	U	U		379	1
	Diphenylamine	379	UG/KG	U	U		379	1
	Fluoranthene	37.9	UG/KG	U	U		37.9	1
	Fluorene	37.9	UG/KG	U	U		37.9	1
	Hexachlorobenzene	379	UG/KG	U	U		379	1
	Hexachlorobutadiene	379	UG/KG	U	U		379	1
	Hexachlorocyclopentadiene	379	UG/KG	U	U		379	1
	Hexachloroethane	379	UG/KG	U	U		379	1
	Indeno(1,2,3-cd)pyrene	37.9	UG/KG	U	U		37.9	1
	Isophorone	379	UG/KG	U	U		379	1
	N-Nitroso-di-n-propylamine	379	UG/KG	U	U		379	1
	Naphthalene	37.9	UG/KG	U	U		37.9	1
	Nitrobenzene	379	UG/KG	U	U		379	1
	Pentachlorophenol	379	UG/KG	U	U		379	1
	Phenanthrene	37.9	UG/KG	U	U		37.9	1
	Phenol	379	UG/KG	U	U		379	1
	Pyrene	37.9	UG/KG	U	U		37.9	1

Station: 7J-SB-07
Sample ID: 7J1781 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	0.88	UG/KG	U	U		0.88	1
	Ethylbenzene	0.88	UG/KG	U	U		0.88	1
	Toluene	0.88	UG/KG	U	U		0.88	1
	Xylenes, Total	0.88	UG/KG	U	U		0.88	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	377	UG/KG	U	U		377	1
	1,2-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,3-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,4-Dichlorobenzene	377	UG/KG	U	U		377	1
	2,4,5-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4,6-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dimethylphenol	377	UG/KG	U	U		377	1
	2,4-Dinitrophenol	754	UG/KG	U	U		754	1
	2,4-Dinitrotoluene	377	UG/KG	U	U		377	1
	2,6-Dinitrotoluene	377	UG/KG	U	U		377	1
	2-Chloronaphthalene	37.7	UG/KG	U	U		37.7	1

Station: 7J-SB-07
Sample ID: 7J1781 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/16/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2-Chlorophenol	377	UG/KG	U	U		377	1
	2-Methyl-4,6-dinitrophenol	377	UG/KG	U	U		377	1
	2-Methylnaphthalene	37.7	UG/KG	U	U		37.7	1
	2-Methylphenol	377	UG/KG	U	U		377	1
	2-Nitroaniline	377	UG/KG	U	U		377	1
	2-Nitrophenol	377	UG/KG	U	U		377	1
	3,3'-Dichlorobenzidine	377	UG/KG	U	U		377	1
	3-Nitroaniline	377	UG/KG	U	U		377	1
	4-Bromophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Chloro-3-methylphenol	377	UG/KG	U	U		377	1
	4-Chloroaniline	377	UG/KG	U	U		377	1
	4-Chlorophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Methylphenol	377	UG/KG	U	U		377	1
	4-Nitroaniline	377	UG/KG	U	U		377	1
	4-Nitrophenol	377	UG/KG	U	U		377	1
	Acenaphthene	37.7	UG/KG	U	U		37.7	1
	Acenaphthylene	37.7	UG/KG	U	U		37.7	1
	Anthracene	37.7	UG/KG	U	U		37.7	1
	Benz(a)anthracene	37.7	UG/KG	U	U		37.7	1
	Benzenemethanol	377	UG/KG	U	U		377	1
	Benzo(a)pyrene	37.7	UG/KG	U	U		37.7	1
	Benzo(b)fluoranthene	37.7	UG/KG	U	U		37.7	1
	Benzo(ghi)perylene	37.7	UG/KG	U	U		37.7	1
	Benzo(k)fluoranthene	37.7	UG/KG	U	U		37.7	1
	Benzoic acid	754	UG/KG	U	U		754	1
	Bis(2-chloroethoxy)methane	377	UG/KG	U	U		377	1
	Bis(2-chloroethyl) ether	377	UG/KG	U	U		377	1
	Bis(2-chloroisopropyl) ether	377	UG/KG	U	U		377	1
	Bis(2-ethylhexyl)phthalate	377	UG/KG	U	U		377	1
	Butyl benzyl phthalate	377	UG/KG	U	U		377	1
	Carbazole	377	UG/KG	U	U		377	1
	Chrysene	37.7	UG/KG	U	U		37.7	1
	Di-n-butyl phthalate	377	UG/KG	U	U		377	1
	Di-n-octylphthalate	377	UG/KG	U	U		377	1
	Dibenz(a,h)anthracene	37.7	UG/KG	U	U		37.7	1
	Dibenzofuran	377	UG/KG	U	U		377	1
	Diethyl phthalate	377	UG/KG	U	U		377	1
	Dimethyl phthalate	377	UG/KG	U	U		377	1
	Diphenylamine	377	UG/KG	U	U		377	1
	Fluoranthene	37.7	UG/KG	U	U		37.7	1
	Fluorene	37.7	UG/KG	U	U		37.7	1
	Hexachlorobenzene	377	UG/KG	U	U		377	1
	Hexachlorobutadiene	377	UG/KG	U	U		377	1
	Hexachlorocyclopentadiene	377	UG/KG	U	U		377	1
	Hexachloroethane	377	UG/KG	U	U		377	1
	Indeno(1,2,3-cd)pyrene	37.7	UG/KG	U	U		37.7	1
	Isophorone	377	UG/KG	U	U		377	1
	N-Nitroso-di-n-propylamine	377	UG/KG	U	U		377	1
	Naphthalene	37.7	UG/KG	U	U		37.7	1
	Nitrobenzene	377	UG/KG	U	U		377	1
	Pentachlorophenol	377	UG/KG	U	U		377	1
	Phenanthrene	37.7	UG/KG	U	U		37.7	1
	Phenol	377	UG/KG	U	U		377	1
	Pyrene	37.7	UG/KG	U	U		37.7	1

Station: 7J-SB-08
Sample ID: 7J1881 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/15/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	0.91	UG/KG	U	U		0.91	1
	Ethylbenzene	0.91	UG/KG	U	U		0.91	1
	Toluene	0.91	UG/KG	U	U		0.91	1
	Xylenes, Total	0.91	UG/KG	U	U		0.91	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	375	UG/KG	U	U		375	1
	1,2-Dichlorobenzene	375	UG/KG	U	U		375	1
	1,3-Dichlorobenzene	375	UG/KG	U	U		375	1
	1,4-Dichlorobenzene	375	UG/KG	U	U		375	1
	2,4,5-Trichlorophenol	375	UG/KG	U	U		375	1
	2,4,6-Trichlorophenol	375	UG/KG	U	U		375	1
	2,4-Dichlorophenol	375	UG/KG	U	U		375	1
	2,4-Dimethylphenol	375	UG/KG	U	U		375	1
	2,4-Dinitrophenol	749	UG/KG	U	U		749	1
	2,4-Dinitrotoluene	375	UG/KG	U	U		375	1
	2,6-Dinitrotoluene	375	UG/KG	U	U		375	1
	2-Chloronaphthalene	37.5	UG/KG	U	U		37.5	1
	2-Chlorophenol	375	UG/KG	U	U		375	1
	2-Methyl-4,6-dinitrophenol	375	UG/KG	U	U		375	1
	2-Methylnaphthalene	37.5	UG/KG	U	U		37.5	1
	2-Methylphenol	375	UG/KG	U	U		375	1
	2-Nitroaniline	375	UG/KG	U	U		375	1
	2-Nitrophenol	375	UG/KG	U	U		375	1
	3,3'-Dichlorobenzidine	375	UG/KG	U	U		375	1
	3-Nitroaniline	375	UG/KG	U	U		375	1
	4-Bromophenyl phenyl ether	375	UG/KG	U	U		375	1
	4-Chloro-3-methylphenol	375	UG/KG	U	U		375	1
	4-Chloroaniline	375	UG/KG	U	U		375	1
	4-Chlorophenyl phenyl ether	375	UG/KG	U	U		375	1
	4-Methylphenol	375	UG/KG	U	U		375	1
	4-Nitroaniline	375	UG/KG	U	U		375	1
	4-Nitrophenol	375	UG/KG	U	U		375	1
	Acenaphthene	37.5	UG/KG	U	U		37.5	1
	Acenaphthylene	37.5	UG/KG	U	U		37.5	1
	Anthracene	37.5	UG/KG	U	U		37.5	1
	Benz(a)anthracene	37.5	UG/KG	U	U		37.5	1
	Benzenemethanol	375	UG/KG	U	U		375	1
	Benzo(a)pyrene	37.5	UG/KG	U	U		37.5	1
	Benzo(b)fluoranthene	37.5	UG/KG	U	U		37.5	1
	Benzo(ghi)perylene	37.5	UG/KG	U	U		37.5	1
	Benzo(k)fluoranthene	37.5	UG/KG	U	U		37.5	1
	Benzoic acid	749	UG/KG	U	U		749	1
	Bis(2-chloroethoxy)methane	375	UG/KG	U	U		375	1
	Bis(2-chloroethyl) ether	375	UG/KG	U	U		375	1
	Bis(2-chloroisopropyl) ether	375	UG/KG	U	U		375	1
	Bis(2-ethylhexyl)phthalate	375	UG/KG	U	U		375	1
	Butyl benzyl phthalate	375	UG/KG	U	U		375	1
	Carbazole	375	UG/KG	U	U		375	1
	Chrysene	37.5	UG/KG	U	U		37.5	1
	Di-n-butyl phthalate	375	UG/KG	U	U		375	1
	Di-n-octylphthalate	375	UG/KG	U	U		375	1
	Dibenz(a,h)anthracene	37.5	UG/KG	U	U		37.5	1
	Dibenzofuran	375	UG/KG	U	U		375	1
	Diethyl phthalate	375	UG/KG	U	U		375	1

Station: 7J-SB-08
Sample ID: 7J1881 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/15/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Dimethyl phthalate	375	UG/KG	U	U		375	1
	Diphenylamine	375	UG/KG	U	U		375	1
	Fluoranthene	37.5	UG/KG	U	U		37.5	1
	Fluorene	37.5	UG/KG	U	U		37.5	1
	Hexachlorobenzene	375	UG/KG	U	U		375	1
	Hexachlorobutadiene	375	UG/KG	U	U		375	1
	Hexachlorocyclopentadiene	375	UG/KG	U	U		375	1
	Hexachloroethane	375	UG/KG	U	U		375	1
	Indeno(1,2,3-cd)pyrene	37.5	UG/KG	U	U		37.5	1
	Isophorone	375	UG/KG	U	U		375	1
	N-Nitroso-di-n-propylamine	375	UG/KG	U	U		375	1
	Naphthalene	37.5	UG/KG	U	U		37.5	1
	Nitrobenzene	375	UG/KG	U	U		375	1
	Pentachlorophenol	375	UG/KG	U	U		375	1
	Phenanthrene	37.5	UG/KG	U	U		37.5	1
	Phenol	375	UG/KG	U	U		375	1
	Pyrene	37.5	UG/KG	U	U		37.5	1

Station: 7J-SB-09
Sample ID: 7J1981 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	1	UG/KG	U	U		1	1
	Ethylbenzene	1	UG/KG	U	U		1	1
	Toluene	1	UG/KG	U	U		1	1
	Xylenes, Total	1	UG/KG	U	U		1	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	395	UG/KG	U	U		395	1
	1,2-Dichlorobenzene	395	UG/KG	U	U		395	1
	1,3-Dichlorobenzene	395	UG/KG	U	U		395	1
	1,4-Dichlorobenzene	395	UG/KG	U	U		395	1
	2,4,5-Trichlorophenol	395	UG/KG	U	U		395	1
	2,4,6-Trichlorophenol	395	UG/KG	U	U		395	1
	2,4-Dichlorophenol	395	UG/KG	U	U		395	1
	2,4-Dimethylphenol	395	UG/KG	U	U		395	1
	2,4-Dinitrophenol	790	UG/KG	U	U		790	1
	2,4-Dinitrotoluene	395	UG/KG	U	U		395	1
	2,6-Dinitrotoluene	395	UG/KG	U	U		395	1
	2-Chloronaphthalene	39.5	UG/KG	U	U		39.5	1
	2-Chlorophenol	395	UG/KG	U	U		395	1
	2-Methyl-4,6-dinitrophenol	395	UG/KG	U	U		395	1
	2-Methylnaphthalene	39.5	UG/KG	U	U		39.5	1
	2-Methylphenol	395	UG/KG	U	U		395	1
	2-Nitroaniline	395	UG/KG	U	U		395	1
	2-Nitrophenol	395	UG/KG	U	U		395	1
	3,3'-Dichlorobenzidine	395	UG/KG	U	U		395	1
	3-Nitroaniline	395	UG/KG	U	U		395	1
	4-Bromophenyl phenyl ether	395	UG/KG	U	U		395	1
	4-Chloro-3-methylphenol	395	UG/KG	U	U		395	1
	4-Chloroaniline	395	UG/KG	U	U		395	1
	4-Chlorophenyl phenyl ether	395	UG/KG	U	U		395	1

Station: 7J-SB-09
Sample ID: 7J1981 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Methylphenol	395	UG/KG	U	U		395	1
	4-Nitroaniline	395	UG/KG	U	U		395	1
	4-Nitrophenol	395	UG/KG	U	U		395	1
	Acenaphthene	39.5	UG/KG	U	U		39.5	1
	Acenaphthylene	39.5	UG/KG	U	U		39.5	1
	Anthracene	39.5	UG/KG	U	U		39.5	1
	Benz(a)anthracene	39.5	UG/KG	U	U		39.5	1
	Benzenemethanol	395	UG/KG	U	U		395	1
	Benzo(a)pyrene	39.5	UG/KG	U	U		39.5	1
	Benzo(b)fluoranthene	39.5	UG/KG	U	U		39.5	1
	Benzo(ghi)perylene	39.5	UG/KG	U	U		39.5	1
	Benzo(k)fluoranthene	39.5	UG/KG	U	U		39.5	1
	Benzoic acid	790	UG/KG	U	U		790	1
	Bis(2-chloroethoxy)methane	395	UG/KG	U	U		395	1
	Bis(2-chloroethyl) ether	395	UG/KG	U	U		395	1
	Bis(2-chloroisopropyl) ether	395	UG/KG	U	U		395	1
	Bis(2-ethylhexyl)phthalate	395	UG/KG	U	U		395	1
	Butyl benzyl phthalate	395	UG/KG	U	U		395	1
	Carbazole	395	UG/KG	U	U		395	1
	Chrysene	39.5	UG/KG	U	U		39.5	1
	Di-n-butyl phthalate	395	UG/KG	U	U		395	1
	Di-n-octylphthalate	395	UG/KG	U	U		395	1
	Dibenz(a,h)anthracene	39.5	UG/KG	U	U		39.5	1
	Dibenzofuran	395	UG/KG	U	U		395	1
	Diethyl phthalate	395	UG/KG	U	U		395	1
	Dimethyl phthalate	395	UG/KG	U	U		395	1
	Diphenylamine	395	UG/KG	U	U		395	1
	Fluoranthene	39.5	UG/KG	U	U		39.5	1
	Fluorene	39.5	UG/KG	U	U		39.5	1
	Hexachlorobenzene	395	UG/KG	U	U		395	1
	Hexachlorobutadiene	395	UG/KG	U	U		395	1
	Hexachlorocyclopentadiene	395	UG/KG	U	U		395	1
	Hexachloroethane	395	UG/KG	U	U		395	1
	Indeno(1,2,3-cd)pyrene	39.5	UG/KG	U	U		39.5	1
	Isophorone	395	UG/KG	U	U		395	1
	N-Nitroso-di-n-propylamine	395	UG/KG	U	U		395	1
	Naphthalene	39.5	UG/KG	U	U		39.5	1
	Nitrobenzene	395	UG/KG	U	U		395	1
	Pentachlorophenol	395	UG/KG	U	U		395	1
	Phenanthrene	39.5	UG/KG	U	U		39.5	1
	Phenol	395	UG/KG	U	U		395	1
	Pyrene	39.5	UG/KG	U	U		39.5	1

Station: 7J-SB-10
Sample ID: 7J1081 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	1	UG/KG	U	U		1	1
	Ethylbenzene	1	UG/KG	U	U		1	1
	Toluene	1	UG/KG	U	U		1	1
	Xylenes, Total	1	UG/KG	U	U		1	1

Semi-Volatile Organics	General Engineering Laboratory						
SW846 8270C	1,2,4-Trichlorobenzene	419	UG/KG	U	U	419	1
	1,2-Dichlorobenzene	419	UG/KG	U	U	419	1
	1,3-Dichlorobenzene	419	UG/KG	U	U	419	1
	1,4-Dichlorobenzene	419	UG/KG	U	U	419	1
	2,4,5-Trichlorophenol	419	UG/KG	U	U	419	1
	2,4,6-Trichlorophenol	419	UG/KG	U	U	419	1
	2,4-Dichlorophenol	419	UG/KG	U	U	419	1
	2,4-Dimethylphenol	419	UG/KG	U	U	419	1
	2,4-Dinitrophenol	838	UG/KG	U	U	838	1
	2,4-Dinitrotoluene	419	UG/KG	U	U	419	1
	2,6-Dinitrotoluene	419	UG/KG	U	U	419	1
	2-Chloronaphthalene	41.9	UG/KG	U	U	41.9	1
	2-Chlorophenol	419	UG/KG	U	U	419	1
	2-Methyl-4,6-dinitrophenol	419	UG/KG	U	U	419	1
	2-Methylnaphthalene	41.9	UG/KG	U	U	41.9	1
	2-Methylphenol	419	UG/KG	U	U	419	1
	2-Nitroaniline	419	UG/KG	U	U	419	1
	2-Nitrophenol	419	UG/KG	U	U	419	1
	3,3'-Dichlorobenzidine	419	UG/KG	U	U	419	1
	3-Nitroaniline	419	UG/KG	U	U	419	1
	4-Bromophenyl phenyl ether	419	UG/KG	U	U	419	1
	4-Chloro-3-methylphenol	419	UG/KG	U	U	419	1
	4-Chloroaniline	419	UG/KG	U	U	419	1
	4-Chlorophenyl phenyl ether	419	UG/KG	U	U	419	1
	4-Methylphenol	419	UG/KG	U	U	419	1
	4-Nitroaniline	419	UG/KG	U	U	419	1
	4-Nitrophenol	419	UG/KG	U	U	419	1
	Acenaphthene	41.9	UG/KG	U	U	41.9	1
	Acenaphthylene	41.9	UG/KG	U	U	41.9	1
	Anthracene	41.9	UG/KG	U	U	41.9	1
	Benz(a)anthracene	41.9	UG/KG	U	U	41.9	1
	Benzenemethanol	419	UG/KG	U	U	419	1
	Benzo(a)pyrene	41.9	UG/KG	U	U	41.9	1
	Benzo(b)fluoranthene	41.9	UG/KG	U	U	41.9	1
	Benzo(ghi)perylene	41.9	UG/KG	U	U	41.9	1
	Benzo(k)fluoranthene	41.9	UG/KG	U	U	41.9	1
	Benzoic acid	838	UG/KG	U	U	838	1
	Bis(2-chloroethoxy)methane	419	UG/KG	U	U	419	1
	Bis(2-chloroethyl) ether	419	UG/KG	U	U	419	1
	Bis(2-chloroisopropyl) ether	419	UG/KG	U	U	419	1
	Bis(2-ethylhexyl)phthalate	419	UG/KG	U	U	419	1
	Butyl benzyl phthalate	419	UG/KG	U	U	419	1
	Carbazole	419	UG/KG	U	U	419	1
	Chrysene	41.9	UG/KG	U	U	41.9	1
	Di-n-butyl phthalate	419	UG/KG	U	U	419	1
	Di-n-octylphthalate	419	UG/KG	U	U	419	1
	Dibenz(a,h)anthracene	41.9	UG/KG	U	U	41.9	1
	Dibenzofuran	419	UG/KG	U	U	419	1
	Diethyl phthalate	419	UG/KG	U	U	419	1
	Dimethyl phthalate	419	UG/KG	U	U	419	1
	Diphenylamine	419	UG/KG	U	U	419	1
	Fluoranthene	41.9	UG/KG	U	U	41.9	1
	Fluorene	41.9	UG/KG	U	U	41.9	1
	Hexachlorobenzene	419	UG/KG	U	U	419	1
	Hexachlorobutadiene	419	UG/KG	U	U	419	1
	Hexachlorocyclopentadiene	419	UG/KG	U	U	419	1
	Hexachloroethane	419	UG/KG	U	U	419	1
	Indeno(1,2,3-cd)pyrene	41.9	UG/KG	U	U	41.9	1
	Isophorone	419	UG/KG	U	U	419	1
	N-Nitroso-di-n-propylamine	419	UG/KG	U	U	419	1
	Naphthalene	41.9	UG/KG	U	U	41.9	1

Station: 7J-SB-10
Sample ID: 7J1081 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Nitrobenzene	419	UG/KG	U	U		419	1
	Pentachlorophenol	419	UG/KG	U	U		419	1
	Phenanthrene	41.9	UG/KG	U	U		41.9	1
	Phenol	419	UG/KG	U	U		419	1
	Pyrene	41.9	UG/KG	U	U		41.9	1

Station: 7J-SB-11
Sample ID: 7J1A81 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	48.7	UG/KG	J	J	G02	92.7	1
	Ethylbenzene	729	UG/KG		J	G02	92.7	1
	Toluene	92.7	UG/KG	U	UJ	G02	92.7	1
	Xylenes, Total	2380	UG/KG		J	G02	92.7	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	377	UG/KG	U	U		377	1
	1,2-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,3-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,4-Dichlorobenzene	377	UG/KG	U	U		377	1
	2,4,5-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4,6-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dimethylphenol	377	UG/KG	U	U		377	1
	2,4-Dinitrophenol	754	UG/KG	U	U		754	1
	2,4-Dinitrotoluene	377	UG/KG	U	U		377	1
	2,6-Dinitrotoluene	377	UG/KG	U	U		377	1
	2-Chloronaphthalene	37.7	UG/KG	U	U		37.7	1
	2-Chlorophenol	377	UG/KG	U	U		377	1
	2-Methyl-4,6-dinitrophenol	377	UG/KG	U	U		377	1
	2-Methylnaphthalene	175	UG/KG		=		37.7	1
	2-Methylphenol	377	UG/KG	U	U		377	1
	2-Nitroaniline	377	UG/KG	U	U		377	1
	2-Nitrophenol	377	UG/KG	U	U		377	1
	3,3'-Dichlorobenzidine	377	UG/KG	U	U		377	1
	3-Nitroaniline	377	UG/KG	U	U		377	1
	4-Bromophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Chloro-3-methylphenol	377	UG/KG	U	U		377	1
	4-Chloroaniline	377	UG/KG	U	U		377	1
	4-Chlorophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Methylphenol	377	UG/KG	U	U		377	1
	4-Nitroaniline	377	UG/KG	U	U		377	1
	4-Nitrophenol	377	UG/KG	U	U		377	1
	Acenaphthene	32.2	UG/KG	J	J		37.7	1
	Acenaphthylene	37.7	UG/KG	U	U		37.7	1
	Anthracene	54.5	UG/KG		=		37.7	1
	Benz(a)anthracene	37.7	UG/KG	U	U		37.7	1
	Benzenemethanol	377	UG/KG	U	U		377	1
	Benzo(a)pyrene	37.7	UG/KG	U	U		37.7	1
	Benzo(b)fluoranthene	37.7	UG/KG	U	U		37.7	1
	Benzo(ghi)perylene	37.7	UG/KG	U	U		37.7	1
	Benzo(k)fluoranthene	37.7	UG/KG	U	U		37.7	1

Station: 7J-SB-11
Sample ID: 7J1A81 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Benzoic acid	754	UG/KG	U	U		754	1
	Bis(2-chloroethoxy)methane	377	UG/KG	U	U		377	1
	Bis(2-chloroethyl) ether	377	UG/KG	U	U		377	1
	Bis(2-chloroisopropyl) ether	377	UG/KG	U	U		377	1
	Bis(2-ethylhexyl)phthalate	377	UG/KG	U	U		377	1
	Butyl benzyl phthalate	377	UG/KG	U	U		377	1
	Carbazole	377	UG/KG	U	U		377	1
	Chrysene	37.7	UG/KG	U	U		37.7	1
	Di-n-butyl phthalate	377	UG/KG	U	U		377	1
	Di-n-octylphthalate	377	UG/KG	U	U		377	1
	Dibenz(a,h)anthracene	37.7	UG/KG	U	U		37.7	1
	Dibenzofuran	377	UG/KG	U	U		377	1
	Diethyl phthalate	377	UG/KG	U	U		377	1
	Dimethyl phthalate	377	UG/KG	U	U		377	1
	Diphenylamine	203	UG/KG	J	J		377	1
	Fluoranthene	37.7	UG/KG	U	U		37.7	1
	Fluorene	84.4	UG/KG		=		37.7	1
	Hexachlorobenzene	377	UG/KG	U	U		377	1
	Hexachlorobutadiene	377	UG/KG	U	U		377	1
	Hexachlorocyclopentadiene	377	UG/KG	U	U		377	1
	Hexachloroethane	377	UG/KG	U	U		377	1
	Indeno(1,2,3-cd)pyrene	37.7	UG/KG	U	U		37.7	1
	Isophorone	377	UG/KG	U	U		377	1
	N-Nitroso-di-n-propylamine	377	UG/KG	U	U		377	1
	Naphthalene	37.7	UG/KG	U	U		37.7	1
	Nitrobenzene	377	UG/KG	U	U		377	1
	Pentachlorophenol	377	UG/KG	U	U		377	1
	Phenanthrene	237	UG/KG		=		37.7	1
	Phenol	377	UG/KG	U	U		377	1
	Pyrene	40.5	UG/KG		=		37.7	1

Station: 7J-SB-12
Sample ID: 7J1B81 Media: Soil Depth: 8 - 10 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	32.3	UG/KG		=		0.89	1
	Ethylbenzene	89.1	UG/KG		=		0.89	1
	Toluene	0.89	UG/KG	U	U		0.89	1
	Xylenes, Total	132	UG/KG		=		0.89	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	380	UG/KG	U	U		380	1
	1,2-Dichlorobenzene	380	UG/KG	U	U		380	1
	1,3-Dichlorobenzene	380	UG/KG	U	U		380	1
	1,4-Dichlorobenzene	380	UG/KG	U	U		380	1
	2,4,5-Trichlorophenol	380	UG/KG	U	U		380	1
	2,4,6-Trichlorophenol	380	UG/KG	U	U		380	1
	2,4-Dichlorophenol	380	UG/KG	U	U		380	1
	2,4-Dimethylphenol	380	UG/KG	U	U		380	1
	2,4-Dinitrophenol	761	UG/KG	U	U		761	1
	2,4-Dinitrotoluene	380	UG/KG	U	U		380	1
	2,6-Dinitrotoluene	380	UG/KG	U	U		380	1

Station: 7J-SB-12
Sample ID: 7J1B81 Media: Soil Depth: 8 - 10 FT
Date Collected: 09/19/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2-Chloronaphthalene	38	UG/KG	U	U		38	1
	2-Chlorophenol	380	UG/KG	U	U		380	1
	2-Methyl-4,6-dinitrophenol	380	UG/KG	U	U		380	1
	2-Methylnaphthalene	122	UG/KG	D	=		2	2
	2-Methylphenol	380	UG/KG	U	U		380	1
	2-Nitroaniline	380	UG/KG	U	U		380	1
	2-Nitrophenol	380	UG/KG	U	U		380	1
	3,3'-Dichlorobenzidine	380	UG/KG	U	U		380	1
	3-Nitroaniline	380	UG/KG	U	U		380	1
	4-Bromophenyl phenyl ether	380	UG/KG	U	U		380	1
	4-Chloro-3-methylphenol	380	UG/KG	U	U		380	1
	4-Chloroaniline	380	UG/KG	U	U		380	1
	4-Chlorophenyl phenyl ether	380	UG/KG	U	U		380	1
	4-Methylphenol	380	UG/KG	U	U		380	1
	4-Nitroaniline	380	UG/KG	U	U		380	1
	4-Nitrophenol	380	UG/KG	U	U		380	1
	Acenaphthene	38	UG/KG	U	U		38	1
	Acenaphthylene	38	UG/KG	U	U		38	1
	Anthracene	428	UG/KG		=		38	1
	Benz(a)anthracene	38	UG/KG	U	U		38	1
	Benzenemethanol	380	UG/KG	U	U		380	1
	Benzo(a)pyrene	38	UG/KG	U	U		38	1
	Benzo(b)fluoranthene	38	UG/KG	U	U		38	1
	Benzo(ghi)perylene	38	UG/KG	U	U		38	1
	Benzo(k)fluoranthene	38	UG/KG	U	U		38	1
	Benzoic acid	761	UG/KG	U	U		761	1
	Bis(2-chloroethoxy)methane	380	UG/KG	U	U		380	1
	Bis(2-chloroethyl) ether	380	UG/KG	U	U		380	1
	Bis(2-chloroisopropyl) ether	380	UG/KG	U	U		380	1
	Bis(2-ethylhexyl)phthalate	380	UG/KG	U	U		380	1
	Butyl benzyl phthalate	380	UG/KG	U	U		380	1
	Carbazole	380	UG/KG	U	U		380	1
	Chrysene	38	UG/KG	U	U		38	1
	Di-n-butyl phthalate	380	UG/KG	U	U		380	1
	Di-n-octylphthalate	380	UG/KG	U	U		380	1
	Dibenz(a,h)anthracene	38	UG/KG	U	U		38	1
	Dibenzofuran	380	UG/KG	U	U		380	1
	Diethyl phthalate	380	UG/KG	U	U		380	1
	Dimethyl phthalate	380	UG/KG	U	U		380	1
	Diphenylamine	380	UG/KG	U	U		380	1
	Fluoranthene	38	UG/KG	U	U		38	1
	Fluorene	816	UG/KG		=		38	1
	Hexachlorobenzene	380	UG/KG	U	U		380	1
	Hexachlorobutadiene	380	UG/KG	U	U		380	1
	Hexachlorocyclopentadiene	380	UG/KG	U	U		380	1
	Hexachloroethane	380	UG/KG	U	U		380	1
	Indeno(1,2,3-cd)pyrene	38	UG/KG	U	U		38	1
	Isophorone	380	UG/KG	U	U		380	1
	N-Nitroso-di-n-propylamine	380	UG/KG	U	U		380	1
	Naphthalene	722	UG/KG		=		38	1
	Nitrobenzene	380	UG/KG	U	U		380	1
	Pentachlorophenol	380	UG/KG	U	U		380	1
	Phenanthrene	1860	UG/KG		=		38	1
	Phenol	380	UG/KG	U	U		380	1
	Pyrene	533	UG/KG		=		38	1

Station: 7J-SB-13
Sample ID: 7J1C81 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/20/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	90.7	UG/KG		J	G01	0.92	1
	Ethylbenzene	112	UG/KG	D	J	A03,G02	92.5	1
	Toluene	34.6	UG/KG		J	G01	0.92	1
	Xylenes, Total	500	UG/KG	D	J	A03,G02	92.5	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	382	UG/KG	U	U		382	1
	1,2-Dichlorobenzene	382	UG/KG	U	U		382	1
	1,3-Dichlorobenzene	382	UG/KG	U	U		382	1
	1,4-Dichlorobenzene	382	UG/KG	U	U		382	1
	2,4,5-Trichlorophenol	382	UG/KG	U	U		382	1
	2,4,6-Trichlorophenol	382	UG/KG	U	U		382	1
	2,4-Dichlorophenol	382	UG/KG	U	U		382	1
	2,4-Dimethylphenol	382	UG/KG	U	U		382	1
	2,4-Dinitrophenol	765	UG/KG	U	U		765	1
	2,4-Dinitrotoluene	382	UG/KG	U	U		382	1
	2,6-Dinitrotoluene	382	UG/KG	U	U		382	1
	2-Chloronaphthalene	38.2	UG/KG	U	U		38.2	1
	2-Chlorophenol	382	UG/KG	U	U		382	1
	2-Methyl-4,6-dinitrophenol	382	UG/KG	U	U		382	1
	2-Methylnaphthalene	338	UG/KG		=		38.2	1
	2-Methylphenol	382	UG/KG	U	U		382	1
	2-Nitroaniline	382	UG/KG	U	U		382	1
	2-Nitrophenol	382	UG/KG	U	U		382	1
	3,3'-Dichlorobenzidine	382	UG/KG	U	U		382	1
	3-Nitroaniline	382	UG/KG	U	U		382	1
	4-Bromophenyl phenyl ether	382	UG/KG	U	U		382	1
	4-Chloro-3-methylphenol	382	UG/KG	U	U		382	1
	4-Chloroaniline	382	UG/KG	U	U		382	1
	4-Chlorophenyl phenyl ether	382	UG/KG	U	U		382	1
	4-Methylphenol	382	UG/KG	U	U		382	1
	4-Nitroaniline	382	UG/KG	U	U		382	1
	4-Nitrophenol	382	UG/KG	U	U		382	1
	Acenaphthene	38.2	UG/KG	U	U		38.2	1
	Acenaphthylene	38.2	UG/KG	U	U		38.2	1
	Anthracene	38.2	UG/KG	U	U		38.2	1
	Benz(a)anthracene	38.2	UG/KG	U	U		38.2	1
	Benzenemethanol	382	UG/KG	U	U		382	1
	Benzo(a)pyrene	38.2	UG/KG	U	U		38.2	1
	Benzo(b)fluoranthene	38.2	UG/KG	U	U		38.2	1
	Benzo(ghi)perylene	38.2	UG/KG	U	U		38.2	1
	Benzo(k)fluoranthene	38.2	UG/KG	U	U		38.2	1
	Benzoic acid	765	UG/KG	U	U		765	1
	Bis(2-chloroethoxy)methane	382	UG/KG	U	U		382	1
	Bis(2-chloroethyl) ether	382	UG/KG	U	U		382	1
	Bis(2-chloroisopropyl) ether	382	UG/KG	U	U		382	1
	Bis(2-ethylhexyl)phthalate	382	UG/KG	U	U		382	1
	Butyl benzyl phthalate	382	UG/KG	U	U		382	1
	Carbazole	382	UG/KG	U	U		382	1
	Chrysene	38.2	UG/KG	U	U		38.2	1
	Di-n-butyl phthalate	382	UG/KG	U	U		382	1
	Di-n-octylphthalate	382	UG/KG	U	U		382	1
	Dibenz(a,h)anthracene	38.2	UG/KG	U	U		38.2	1

Station: 7J-SB-13
Sample ID: 7J1C81 Media: Soil Depth: 10 - 12 FT
Date Collected: 09/20/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Dibenzofuran	382	UG/KG	U	U		382	1
	Diethyl phthalate	382	UG/KG	U	U		382	1
	Dimethyl phthalate	382	UG/KG	U	U		382	1
	Diphenylamine	382	UG/KG	U	U		382	1
	Fluoranthene	38.2	UG/KG	U	U		38.2	1
	Fluorene	76.6	UG/KG		=		38.2	1
	Hexachlorobenzene	382	UG/KG	U	U		382	1
	Hexachlorobutadiene	382	UG/KG	U	U		382	1
	Hexachlorocyclopentadiene	382	UG/KG	U	U		382	1
	Hexachloroethane	382	UG/KG	U	U		382	1
	Indeno(1,2,3-cd)pyrene	38.2	UG/KG	U	U		38.2	1
	Isophorone	382	UG/KG	U	U		382	1
	N-Nitroso-di-n-propylamine	382	UG/KG	U	U		382	1
	Naphthalene	35.9	UG/KG	J	J		38.2	1
	Nitrobenzene	382	UG/KG	U	U		382	1
	Pentachlorophenol	382	UG/KG	U	U		382	1
	Phenanthrene	221	UG/KG		=		38.2	1
	Phenol	382	UG/KG	U	U		382	1
	Pyrene	38.2	UG/KG	U	U		38.2	1

Station: 7J-SB-14
Sample ID: 7J1K81 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/20/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
BTEX Compounds	General Engineering Laboratory							
SW846 8260B	Benzene	36.2	UG/KG	J	J	G02	84.4	1
	Ethylbenzene	1540	UG/KG		J	G02	84.4	1
	Toluene	84.4	UG/KG	U	UJ	G02	84.4	1
	Xylenes, Total	652	UG/KG		J	G02	84.4	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,2,4-Trichlorobenzene	377	UG/KG	U	U		377	1
	1,2-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,3-Dichlorobenzene	377	UG/KG	U	U		377	1
	1,4-Dichlorobenzene	377	UG/KG	U	U		377	1
	2,4,5-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4,6-Trichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dichlorophenol	377	UG/KG	U	U		377	1
	2,4-Dimethylphenol	377	UG/KG	U	U		377	1
	2,4-Dinitrophenol	754	UG/KG	U	U		754	1
	2,4-Dinitrotoluene	377	UG/KG	U	U		377	1
	2,6-Dinitrotoluene	377	UG/KG	U	U		377	1
	2-Chloronaphthalene	37.7	UG/KG	U	U		37.7	1
	2-Chlorophenol	377	UG/KG	U	U		377	1
	2-Methyl-4,6-dinitrophenol	377	UG/KG	U	U		377	1
	2-Methylnaphthalene	3890	UG/KG		=		37.7	1
	2-Methylphenol	377	UG/KG	U	U		377	1
	2-Nitroaniline	377	UG/KG	U	U		377	1
	2-Nitrophenol	377	UG/KG	U	U		377	1
	3,3'-Dichlorobenzidine	377	UG/KG	U	U		377	1
	3-Nitroaniline	377	UG/KG	U	U		377	1
	4-Bromophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Chloro-3-methylphenol	377	UG/KG	U	U		377	1

Station: 7J-SB-14
Sample ID: 7J1K81 Media: Soil Depth: 6 - 8 FT
Date Collected: 09/20/2005 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Chloroaniline	377	UG/KG	U	U		377	1
	4-Chlorophenyl phenyl ether	377	UG/KG	U	U		377	1
	4-Methylphenol	377	UG/KG	U	U		377	1
	4-Nitroaniline	377	UG/KG	U	U		377	1
	4-Nitrophenol	377	UG/KG	U	U		377	1
	Acenaphthene	37.7	UG/KG	U	U		37.7	1
	Acenaphthylene	37.7	UG/KG	U	U		37.7	1
	Anthracene	37.7	UG/KG	U	U		37.7	1
	Benz(a)anthracene	37.7	UG/KG	U	U		37.7	1
	Benzenemethanol	377	UG/KG	U	U		377	1
	Benzo(a)pyrene	37.7	UG/KG	U	U		37.7	1
	Benzo(b)fluoranthene	37.7	UG/KG	U	U		37.7	1
	Benzo(ghi)perylene	37.7	UG/KG	U	U		37.7	1
	Benzo(k)fluoranthene	37.7	UG/KG	U	U		37.7	1
	Benzoic acid	754	UG/KG	U	U		754	1
	Bis(2-chloroethoxy)methane	377	UG/KG	U	U		377	1
	Bis(2-chloroethyl) ether	377	UG/KG	U	U		377	1
	Bis(2-chloroisopropyl) ether	377	UG/KG	U	U		377	1
	Bis(2-ethylhexyl)phthalate	377	UG/KG	U	U		377	1
	Butyl benzyl phthalate	377	UG/KG	U	U		377	1
	Carbazole	377	UG/KG	U	U		377	1
	Chrysene	37.7	UG/KG	U	U		37.7	1
	Di-n-butyl phthalate	377	UG/KG	U	U		377	1
	Di-n-octylphthalate	377	UG/KG	U	U		377	1
	Dibenz(a,h)anthracene	37.7	UG/KG	U	U		37.7	1
	Dibenzofuran	377	UG/KG	U	U		377	1
	Diethyl phthalate	377	UG/KG	U	U		377	1
	Dimethyl phthalate	377	UG/KG	U	U		377	1
	Diphenylamine	377	UG/KG	U	U		377	1
	Fluoranthene	384	UG/KG		=		37.7	1
	Fluorene	592	UG/KG		=		37.7	1
	Hexachlorobenzene	377	UG/KG	U	U		377	1
	Hexachlorobutadiene	377	UG/KG	U	U		377	1
	Hexachlorocyclopentadiene	377	UG/KG	U	U		377	1
	Hexachloroethane	377	UG/KG	U	U		377	1
	Indeno(1,2,3-cd)pyrene	37.7	UG/KG	U	U		37.7	1
	Isophorone	377	UG/KG	U	U		377	1
	N-Nitroso-di-n-propylamine	377	UG/KG	U	U		377	1
	Naphthalene	654	UG/KG		=		37.7	1
	Nitrobenzene	377	UG/KG	U	U		377	1
	Pentachlorophenol	377	UG/KG	U	U		377	1
	Phenanthrene	1660	UG/KG		=		37.7	1
	Phenol	377	UG/KG	U	U		377	1
	Pyrene	613	UG/KG		=		37.7	1

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~~145784~~ CD 9/21/05

COC NO.: 27F015

CHAIN OF CUSTODY RECORD

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-4292-400

PROJECT MANAGER: Jeff Longaker 9/14/5443

Sampler (Signature): Patricia A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	DVA SCREENING	OBSERVATIONS, COMMENTS,
7J1881	9/15/05	1700	SOIL	1	1						2		

C27

9/16/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
Patricia A Stoll	9/16/05		9/16/05 14:00
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Ben Watkins	9/16/05 1145	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: Ben Watkins	9/16/05 1450	RECEIVED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 2

Cooler Temperature: 4°C

Cooler ID: C99-8

FEDEX NUMBER: N/A

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CHAIN OF CUSTODY RECORD

COC NO.: 27F016

PROJECT NAME: SWMU-27F 745790 CD 9/21/05

PROJECT NUMBER: 01-1055-04-4292-400

PROJECT MANAGER: Jeff Longaker 745996

Sampler (Signature) [signature] (Printed Name) PATRICIA A. STOCK

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
7J1321	9/16/05	1130	SOIL	1	1						2		
7J1381		1130		1	1						2		
7J1481		1000		1	1						2		
7J1781		0850		1	1						2		
7J1581		0935		1	1						2		

[signature] 9/17/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
[signature]	9/17/05	[signature]	9/17/05 1340
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Ben Watters	Date/Time 9/17/05 1040	RELINQUISHED BY:	Date/Time
COMPANY NAME: [signature]		COMPANY NAME:	
RELINQUISHED BY: Ben Watters	Date/Time 9/17/05 1315	RECEIVED BY:	Date/Time
COMPANY NAME: [signature]		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 10

Cooler Temperature: 4°C

Cooler ID: 123

FEDEX NUMBER: N/A

1145904 CD 9/21/05

COC NO.: 27F017

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CHAIN OF CUSTODY RECORD

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-4292-400

PROJECT MANAGER: Jeff Longaker

Sampler (Signature): Patricia C Stoll (Printed Name): PATRICIA A STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
7J1541	9/16/05	0920	water	2							2		

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TOTAL NUMBER OF CONTAINERS: 2

Cooler Temperature: 4°C

Cooler ID: #3

FEDEX NUMBER: N/A

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Patricia C Stoll	9/19/05	T. Blow	9/19/05 1400
COMPANY NAME: SAIC		COMPANY NAME: Gel	
RECEIVED BY: Jon Whitten	Date/Time 9/19/05 1110	RELINQUISHED BY:	Date/Time
COMPANY NAME: Gel		COMPANY NAME:	
RELINQUISHED BY: Jon Whitten	Date/Time 9/19/05 1400	RECEIVED BY:	Date/Time
COMPANY NAME: Gel		COMPANY NAME:	

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CHAIN OF CUSTODY RECORD

COC NO.: 27F018

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-4292-400

PROJECT MANAGER: Jeff Longaker 1.145439

Sampler (Signature): Patricia A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
7J1A81	9/19/05	1500	Soil	1	1						2		
7J1281		1430		1	1						2		
7J1081		1345		1	1						2		
7J1B81		1730		1	1						2		
7J1981		1700		1	1						2		
7J1681		1630		1	1						2		
7J1181		1545		1	1						2		
C-30													

P Stoll 9/20/05

RELINQUISHED BY: Patricia A Stoll	Date/Time 9/20/05	RECEIVED BY:	Date/Time 9-20-2005 1520	TOTAL NUMBER OF CONTAINERS: 14	Cooler Temperature: 4°
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: #7	FEDEX NUMBER: N/A
RECEIVED BY:	Date/Time 9/20/05 1050	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time 9/20/05 1520	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: 27FØ19

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-4292-400

PROJECT MANAGER: Jeff Longaker

./. 146090

Sampler (Signature): P. A. Stoll (Printed Name): PATRICIA A. STOLL

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
7J1K81	9/20/05	1000	SOIL	1	1						2		
7J1K21	↓	1010	↓	1	1						2		
7J1C81	↓	0900	↓	1	1						2		

P. A. Stoll

C-31

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407

PHONE NO: (843)556-8171

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
P. A. Stoll	9/21/05		
COMPANY NAME: SAIC		COMPANY NAME:	9/21/05 1640
RECEIVED BY: Ben Walters	Date/Time 9/21/05 1050	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY: Ben Walters	Date/Time 9/21/05 1500	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 6

Cooler ID: A2

Cooler Temperature: 4°C

FEDEX NUMBER: N/A

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ANALYTICAL GROUNDWATER RESULTS AND CHAIN-OF-CUSTODY FORMS

APRIL/JULY 2007

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Station: 7J-MW-01
Sample ID: 7J4178 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	1.51	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	1	MG/L	U	U		1	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	2540	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	13	UG/L	J	J		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	10	UG/L	U	U		10	1
	1,2,4-Trichlorobenzene	10	UG/L	U	U		10	1
	1,2-Dichlorobenzene	10	UG/L	U	U		10	1
	1,3-Dichlorobenzene	10	UG/L	U	U		10	1
	1,4-Dichlorobenzene	10	UG/L	U	U		10	1
	2,4,5-Trichlorophenol	10	UG/L	U	U		10	1
	2,4,6-Trichlorophenol	10	UG/L	U	U		10	1
	2,4-Dichlorophenol	10	UG/L	U	U		10	1
	2,4-Dimethylphenol	10	UG/L	U	U		10	1
	2,4-Dinitrophenol	20	UG/L	U	U		20	1
	2,4-Dinitrotoluene	10	UG/L	U	U		10	1
	2,6-Dinitrotoluene	10	UG/L	U	U		10	1
	2-Chloronaphthalene	1	UG/L	U	U		1	1
	2-Chlorophenol	10	UG/L	U	U		10	1
	2-Methyl-4,6-dinitrophenol	10	UG/L	U	U		10	1
	2-Methylnaphthalene	1	UG/L	U	U		1	1
	2-Methylphenol	10	UG/L	U	U		10	1
	2-Nitroaniline	10	UG/L	U	U		10	1
	2-Nitrophenol	10	UG/L	U	U		10	1
	3,3'-Dichlorobenzidine	10	UG/L	U	U		10	1
	3-Nitroaniline	10	UG/L	U	U		10	1
	4-Bromophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Chloro-3-methylphenol	10	UG/L	U	U		10	1
	4-Chloroaniline	10	UG/L	U	U		10	1
	4-Chlorophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Methylphenol	10	UG/L	U	U		10	1
	4-Nitroaniline	10	UG/L	U	U		10	1
	4-Nitrophenol	10	UG/L	U	U		10	1
	Acenaphthene	1	UG/L	U	U		1	1
	Acenaphthylene	1	UG/L	U	U		1	1
	alpha-Terpineol	10	UG/L	U	U		10	1
	Anthracene	1	UG/L	U	U		1	1
	Atrazine	10	UG/L	U	U		10	1
	Benz(a)anthracene	1	UG/L	U	U		1	1
	Benzaldehyde	10	UG/L	U	U		10	1
	Benzenemethanol	10	UG/L	U	U		10	1
	Benzidine	10	UG/L	U	U		10	1
	Benzo(a)pyrene	1	UG/L	U	U		1	1
	Benzo(b)fluoranthene	1	UG/L	U	U		1	1
	Benzo(ghi)perylene	1	UG/L	U	U		1	1
	Benzo(k)fluoranthene	1	UG/L	U	U		1	1
	Benzoic acid	20	UG/L	U	U		20	1
	Bis(2-chloroethoxy)methane	10	UG/L	U	U		10	1
	Bis(2-chloroethyl) ether	10	UG/L	U	U		10	1

Station: 7J-MW-01
Sample ID: 7J4178 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Bis(2-chloroisopropyl) ether	10	UG/L	U	U		10	1
	Bis(2-ethylhexyl)phthalate	10	UG/L	U	U		10	1
	Butyl benzyl phthalate	10	UG/L	U	U		10	1
	Carbazole	1	UG/L	U	U		1	1
	Chrysene	1	UG/L	U	U		1	1
	Di-n-butyl phthalate	10	UG/L	U	U		10	1
	Di-n-octylphthalate	10	UG/L	U	U		10	1
	Dibenz(a,h)anthracene	1	UG/L	U	U		1	1
	Dibenzofuran	10	UG/L	U	U		10	1
	Diethyl phthalate	10	UG/L	U	U		10	1
	Dimethyl phthalate	10	UG/L	U	U		10	1
	Diphenylamine	10	UG/L	U	U		10	1
	Fluoranthene	1	UG/L	U	U		1	1
	Fluorene	1	UG/L	U	U		1	1
	Hexachlorobenzene	10	UG/L	U	U		10	1
	Hexachlorobutadiene	10	UG/L	U	U		10	1
	Hexachlorocyclopentadiene	10	UG/L	U	U		10	1
	Hexachloroethane	10	UG/L	U	U		10	1
	Indeno(1,2,3-cd)pyrene	1	UG/L	U	U		1	1
	Isophorone	10	UG/L	U	U		10	1
	N-Nitroso-di-n-propylamine	10	UG/L	U	U		10	1
	Naphthalene	1	UG/L	U	U		1	1
	Nitrobenzene	10	UG/L	U	U		10	1
	Pentachlorophenol	10	UG/L	U	U		10	1
	Phenanthrene	1	UG/L	U	U		1	1
	Phenol	10	UG/L	U	U		10	1
	Pyrene	1	UG/L	U	U		1	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	2.05	UG/L	J	J		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1

Station: 7J-MW-01
Sample ID: 7J4178 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-03
Sample ID: 7J4378 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.65	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	105	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	895	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	21.2	UG/L	J	J		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.52	UG/L	Uh	UJ	A01	9.52	1
	1,2,4-Trichlorobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	1,2-Dichlorobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	1,3-Dichlorobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	1,4-Dichlorobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,4,5-Trichlorophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,4,6-Trichlorophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,4-Dichlorophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,4-Dimethylphenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,4-Dinitrophenol	19	UG/L	Uh	UJ	A01	19	1
	2,4-Dinitrotoluene	9.52	UG/L	Uh	UJ	A01	9.52	1
	2,6-Dinitrotoluene	9.52	UG/L	Uh	UJ	A01	9.52	1
	2-Chloronaphthalene	0.952	UG/L	Uh	UJ	A01	0.952	1
	2-Chlorophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2-Methyl-4,6-dinitrophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2-Methylnaphthalene	0.952	UG/L	Uh	UJ	A01	0.952	1
	2-Methylphenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	2-Nitroaniline	9.52	UG/L	Uh	UJ	A01	9.52	1
	2-Nitrophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	3,3'-Dichlorobenzidine	9.52	UG/L	Uh	UJ	A01	9.52	1
	3-Nitroaniline	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Bromophenyl phenyl ether	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Chloro-3-methylphenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Chloroaniline	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Chlorophenyl phenyl ether	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Methylphenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	4-Nitroaniline	9.52	UG/L	Uh	UJ	A01	9.52	1

Station: 7J-MW-03
Sample ID: 7J4378 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Nitrophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	Acenaphthene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Acenaphthylene	0.952	UG/L	Uh	UJ	A01	0.952	1
	alpha-Terpineol	9.52	UG/L	Uh	UJ	A01	9.52	1
	Anthracene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Atrazine	9.52	UG/L	Uh	UJ	A01	9.52	1
	Benz(a)anthracene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Benzaldehyde	9.52	UG/L	Uh	UJ	A01	9.52	1
	Benzenemethanol	9.52	UG/L	Uh	UJ	A01	9.52	1
	Benzidine	9.52	UG/L	Uh	UJ	A01	9.52	1
	Benzo(a)pyrene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Benzo(b)fluoranthene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Benzo(ghi)perylene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Benzo(k)fluoranthene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Benzoic acid	19	UG/L	Uh	UJ	A01	19	1
	Bis(2-chloroethoxy)methane	9.52	UG/L	Uh	UJ	A01	9.52	1
	Bis(2-chloroethyl) ether	9.52	UG/L	Uh	UJ	A01	9.52	1
	Bis(2-chloroisopropyl) ether	9.52	UG/L	Uh	UJ	A01	9.52	1
	Bis(2-ethylhexyl)phthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Butyl benzyl phthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Carbazole	0.952	UG/L	Uh	UJ	A01	0.952	1
	Chrysene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Di-n-butyl phthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Di-n-octylphthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Dibenz(a,h)anthracene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Dibenzofuran	9.52	UG/L	Uh	UJ	A01	9.52	1
	Diethyl phthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Dimethyl phthalate	9.52	UG/L	Uh	UJ	A01	9.52	1
	Diphenylamine	9.52	UG/L	Uh	UJ	A01	9.52	1
	Fluoranthene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Fluorene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Hexachlorobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	Hexachlorobutadiene	9.52	UG/L	Uh	UJ	A01	9.52	1
	Hexachlorocyclopentadiene	9.52	UG/L	Uh	UJ	A01	9.52	1
	Hexachloroethane	9.52	UG/L	Uh	UJ	A01	9.52	1
	Indeno(1,2,3-cd)pyrene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Isophorone	9.52	UG/L	Uh	UJ	A01	9.52	1
	N-Nitroso-di-n-propylamine	9.52	UG/L	Uh	UJ	A01	9.52	1
	Naphthalene	0.502	UG/L	Jh	J	A01	0.952	1
	Nitrobenzene	9.52	UG/L	Uh	UJ	A01	9.52	1
	Pentachlorophenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	Phenanthrene	0.952	UG/L	Uh	UJ	A01	0.952	1
	Phenol	9.52	UG/L	Uh	UJ	A01	9.52	1
	Pyrene	0.952	UG/L	Uh	UJ	A01	0.952	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1

Station: 7J-MW-03
Sample ID: 7J4378 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Acetone	1.39	UG/L	J	J		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-04
Sample ID: 7J4428 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.984	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	352	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	5830	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	87.2	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.52	UG/L	U	U		9.52	1
	1,2,4-Trichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,2-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,3-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,4-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	2,4,5-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4,6-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dimethylphenol	9.52	UG/L	U	U		9.52	1
	2,4-Dinitrophenol	19	UG/L	U	U		19	1

Station: 7J-MW-04
Sample ID: 7J4428 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2,4-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2,6-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2-Chloronaphthalene	0.952	UG/L	U	U		0.952	1
	2-Chlorophenol	9.52	UG/L	U	U		9.52	1
	2-Methyl-4,6-dinitrophenol	9.52	UG/L	U	U		9.52	1
	2-Methylnaphthalene	0.655	UG/L	J	J		0.952	1
	2-Methylphenol	9.52	UG/L	U	U		9.52	1
	2-Nitroaniline	9.52	UG/L	U	U		9.52	1
	2-Nitrophenol	9.52	UG/L	U	U		9.52	1
	3,3'-Dichlorobenzidine	9.52	UG/L	U	U		9.52	1
	3-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Bromophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Chloro-3-methylphenol	9.52	UG/L	U	U		9.52	1
	4-Chloroaniline	9.52	UG/L	U	U		9.52	1
	4-Chlorophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Methylphenol	9.52	UG/L	U	U		9.52	1
	4-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Nitrophenol	9.52	UG/L	U	U		9.52	1
	Acenaphthene	0.952	UG/L	U	U		0.952	1
	Acenaphthylene	0.952	UG/L	U	U		0.952	1
	alpha-Terpineol	9.52	UG/L	U	U		9.52	1
	Anthracene	0.952	UG/L	U	U		0.952	1
	Atrazine	9.52	UG/L	U	U		9.52	1
	Benz(a)anthracene	0.952	UG/L	U	U		0.952	1
	Benzaldehyde	9.52	UG/L	U	U		9.52	1
	Benzenemethanol	9.52	UG/L	U	U		9.52	1
	Benzidine	9.52	UG/L	U	U		9.52	1
	Benzo(a)pyrene	0.952	UG/L	U	U		0.952	1
	Benzo(b)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzo(ghi)perylene	0.952	UG/L	U	U		0.952	1
	Benzo(k)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzoic acid	19	UG/L	U	U		19	1
	Bis(2-chloroethoxy)methane	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroethyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroisopropyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-ethylhexyl)phthalate	9.52	UG/L	U	U		9.52	1
	Butyl benzyl phthalate	9.52	UG/L	U	U		9.52	1
	Carbazole	3.22	UG/L		=		0.952	1
	Chrysene	0.952	UG/L	U	U		0.952	1
	Di-n-butyl phthalate	9.52	UG/L	U	U		9.52	1
	Di-n-octylphthalate	9.52	UG/L	U	U		9.52	1
	Dibenz(a,h)anthracene	0.952	UG/L	U	U		0.952	1
	Dibenzofuran	9.52	UG/L	U	U		9.52	1
	Diethyl phthalate	9.52	UG/L	U	U		9.52	1
	Dimethyl phthalate	9.52	UG/L	U	U		9.52	1
	Diphenylamine	9.52	UG/L	U	U		9.52	1
	Fluoranthene	0.952	UG/L	U	U		0.952	1
	Fluorene	0.406	UG/L	J	J		0.952	1
	Hexachlorobenzene	9.52	UG/L	U	U		9.52	1
	Hexachlorobutadiene	9.52	UG/L	U	U		9.52	1
	Hexachlorocyclopentadiene	9.52	UG/L	U	U		9.52	1
	Hexachloroethane	9.52	UG/L	U	U		9.52	1
	Indeno(1,2,3-cd)pyrene	0.952	UG/L	U	U		0.952	1
	Isophorone	9.52	UG/L	U	U		9.52	1
	N-Nitroso-di-n-propylamine	9.52	UG/L	U	U		9.52	1
	Naphthalene	3.11	UG/L		=		0.952	1

Station: 7J-MW-04
Sample ID: 7J4428 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Nitrobenzene	9.52	UG/L	U	U		9.52	1
	Pentachlorophenol	9.52	UG/L	U	U		9.52	1
	Phenanthrene	0.956	UG/L		=		0.952	1
	Phenol	9.52	UG/L	U	U		9.52	1
	Pyrene	0.952	UG/L	U	U		0.952	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	1.34	UG/L	J	J		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	0.752	UG/L	J	J		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.699	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-04
Sample ID: 7J4478 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	1.03	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	364	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							

Station: 7J-MW-04
Sample ID: 7J4478 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Organic Gases	General Engineering Laboratory							
SW846 6010	Iron	6280	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
	Methane	92.5	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.43	UG/L	U	U		9.43	1
	1,2,4-Trichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,2-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,3-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,4-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	2,4,5-Trichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4,6-Trichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4-Dichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4-Dimethylphenol	9.43	UG/L	U	U		9.43	1
	2,4-Dinitrophenol	18.9	UG/L	U	U		18.9	1
	2,4-Dinitrotoluene	9.43	UG/L	U	U		9.43	1
	2,6-Dinitrotoluene	9.43	UG/L	U	U		9.43	1
	2-Chloronaphthalene	0.943	UG/L	U	U		0.943	1
	2-Chlorophenol	9.43	UG/L	U	U		9.43	1
	2-Methyl-4,6-dinitrophenol	9.43	UG/L	U	U		9.43	1
	2-Methylnaphthalene	0.741	UG/L	J	J		0.943	1
	2-Methylphenol	9.43	UG/L	U	U		9.43	1
	2-Nitroaniline	9.43	UG/L	U	U		9.43	1
	2-Nitrophenol	9.43	UG/L	U	U		9.43	1
	3,3'-Dichlorobenzidine	9.43	UG/L	U	U		9.43	1
	3-Nitroaniline	9.43	UG/L	U	U		9.43	1
	4-Bromophenyl phenyl ether	9.43	UG/L	U	U		9.43	1
	4-Chloro-3-methylphenol	9.43	UG/L	U	U		9.43	1
	4-Chloroaniline	9.43	UG/L	U	U		9.43	1
	4-Chlorophenyl phenyl ether	9.43	UG/L	U	U		9.43	1
	4-Methylphenol	9.43	UG/L	U	U		9.43	1
	4-Nitroaniline	9.43	UG/L	U	U		9.43	1
	4-Nitrophenol	9.43	UG/L	U	U		9.43	1
	Acenaphthene	0.943	UG/L	U	U		0.943	1
	Acenaphthylene	0.943	UG/L	U	U		0.943	1
	alpha-Terpineol	9.43	UG/L	U	U		9.43	1
	Anthracene	0.943	UG/L	U	U		0.943	1
	Atrazine	9.43	UG/L	U	U		9.43	1
	Benz(a)anthracene	0.943	UG/L	U	U		0.943	1
	Benzaldehyde	9.43	UG/L	U	U		9.43	1
	Benzenemethanol	9.43	UG/L	U	U		9.43	1
	Benzidine	9.43	UG/L	U	U		9.43	1
	Benzo(a)pyrene	0.943	UG/L	U	U		0.943	1
	Benzo(b)fluoranthene	0.943	UG/L	U	U		0.943	1
	Benzo(ghi)perylene	0.943	UG/L	U	U		0.943	1
	Benzo(k)fluoranthene	0.943	UG/L	U	U		0.943	1
	Benzoic acid	18.9	UG/L	U	U		18.9	1
	Bis(2-chloroethoxy)methane	9.43	UG/L	U	U		9.43	1
	Bis(2-chloroethyl) ether	9.43	UG/L	U	U		9.43	1
	Bis(2-chloroisopropyl) ether	9.43	UG/L	U	U		9.43	1
	Bis(2-ethylhexyl)phthalate	9.43	UG/L	U	U		9.43	1
	Butyl benzyl phthalate	9.43	UG/L	U	U		9.43	1
	Carbazole	3.19	UG/L		=		0.943	1
	Chrysene	0.943	UG/L	U	U		0.943	1
	Di-n-butyl phthalate	9.43	UG/L	U	U		9.43	1
	Di-n-octylphthalate	9.43	UG/L	U	U		9.43	1

Station: 7J-MW-04
Sample ID: 7J4478 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Dibenz(a,h)anthracene	0.943	UG/L	U	U		0.943	1
	Dibenzofuran	9.43	UG/L	U	U		9.43	1
	Diethyl phthalate	9.43	UG/L	U	U		9.43	1
	Dimethyl phthalate	9.43	UG/L	U	U		9.43	1
	Diphenylamine	9.43	UG/L	U	U		9.43	1
	Fluoranthene	0.943	UG/L	U	U		0.943	1
	Fluorene	0.421	UG/L	J	J		0.943	1
	Hexachlorobenzene	9.43	UG/L	U	U		9.43	1
	Hexachlorobutadiene	9.43	UG/L	U	U		9.43	1
	Hexachlorocyclopentadiene	9.43	UG/L	U	U		9.43	1
	Hexachloroethane	9.43	UG/L	U	U		9.43	1
	Indeno(1,2,3-cd)pyrene	0.943	UG/L	U	U		0.943	1
	Isophorone	9.43	UG/L	U	U		9.43	1
	N-Nitroso-di-n-propylamine	9.43	UG/L	U	U		9.43	1
	Naphthalene	3.11	UG/L		=		0.943	1
	Nitrobenzene	9.43	UG/L	U	U		9.43	1
	Pentachlorophenol	9.43	UG/L	U	U		9.43	1
	Phenanthrene	0.912	UG/L	J	J		0.943	1
	Phenol	9.43	UG/L	U	U		9.43	1
	Pyrene	0.943	UG/L	U	U		0.943	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	1.47	UG/L	J	J		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	0.618	UG/L	J	J		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.645	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1

Station: 7J-MW-04
Sample ID: 7J4478 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
SW846 8260B	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-05
Sample ID: 7J4578 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
	Nitrate	0.1	MG/L	U	U		0.1	1
EPA 300.0	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.494	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	110	MG/L		=		1.45	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	617	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	20.4	UG/L	J	J		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.52	UG/L	U	U		9.52	1
	1,2,4-Trichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,2-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,3-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,4-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	2,4,5-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4,6-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dimethylphenol	9.52	UG/L	U	U		9.52	1
	2,4-Dinitrophenol	19	UG/L	U	U		19	1
	2,4-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2,6-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2-Chloronaphthalene	0.952	UG/L	U	U		0.952	1
	2-Chlorophenol	9.52	UG/L	U	U		9.52	1
	2-Methyl-4,6-dinitrophenol	9.52	UG/L	U	U		9.52	1
	2-Methylnaphthalene	0.819	UG/L	J	J		0.952	1
	2-Methylphenol	9.52	UG/L	U	U		9.52	1
	2-Nitroaniline	9.52	UG/L	U	U		9.52	1
	2-Nitrophenol	9.52	UG/L	U	U		9.52	1
	3,3'-Dichlorobenzidine	9.52	UG/L	U	U		9.52	1
	3-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Bromophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Chloro-3-methylphenol	9.52	UG/L	U	U		9.52	1
	4-Chloroaniline	9.52	UG/L	U	U		9.52	1
	4-Chlorophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Methylphenol	9.52	UG/L	U	U		9.52	1
	4-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Nitrophenol	9.52	UG/L	U	U		9.52	1
	Acenaphthene	0.952	UG/L	U	U		0.952	1
	Acenaphthylene	0.952	UG/L	U	U		0.952	1
	alpha-Terpineol	9.52	UG/L	U	U		9.52	1
	Anthracene	0.952	UG/L	U	U		0.952	1
	Atrazine	9.52	UG/L	U	U		9.52	1
	Benz(a)anthracene	0.952	UG/L	U	U		0.952	1

Station: 7J-MW-05
Sample ID: 7J4578 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Benzaldehyde	9.52	UG/L	U	U		9.52	1
	Benzenemethanol	9.52	UG/L	U	U		9.52	1
	Benzidine	9.52	UG/L	U	U		9.52	1
	Benzo(a)pyrene	0.952	UG/L	U	U		0.952	1
	Benzo(b)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzo(ghi)perylene	0.952	UG/L	U	U		0.952	1
	Benzo(k)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzoic acid	19	UG/L	U	U		19	1
	Bis(2-chloroethoxy)methane	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroethyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroisopropyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-ethylhexyl)phthalate	9.52	UG/L	U	U		9.52	1
	Butyl benzyl phthalate	9.52	UG/L	U	U		9.52	1
	Carbazole	0.952	UG/L	U	U		0.952	1
	Chrysene	0.952	UG/L	U	U		0.952	1
	Di-n-butyl phthalate	9.52	UG/L	U	U		9.52	1
	Di-n-octylphthalate	9.52	UG/L	U	U		9.52	1
	Dibenz(a,h)anthracene	0.952	UG/L	U	U		0.952	1
	Dibenzofuran	9.52	UG/L	U	U		9.52	1
	Diethyl phthalate	9.52	UG/L	U	U		9.52	1
	Dimethyl phthalate	9.52	UG/L	U	U		9.52	1
	Diphenylamine	9.52	UG/L	U	U		9.52	1
	Fluoranthene	0.952	UG/L	U	U		0.952	1
	Fluorene	0.952	UG/L	U	U		0.952	1
	Hexachlorobenzene	9.52	UG/L	U	U		9.52	1
	Hexachlorobutadiene	9.52	UG/L	U	U		9.52	1
	Hexachlorocyclopentadiene	9.52	UG/L	U	U		9.52	1
	Hexachloroethane	9.52	UG/L	U	U		9.52	1
	Indeno(1,2,3-cd)pyrene	0.952	UG/L	U	U		0.952	1
	Isophorone	9.52	UG/L	U	U		9.52	1
	N-Nitroso-di-n-propylamine	9.52	UG/L	U	U		9.52	1
	Naphthalene	6.03	UG/L		=		0.952	1
	Nitrobenzene	9.52	UG/L	U	U		9.52	1
	Pentachlorophenol	9.52	UG/L	U	U		9.52	1
	Phenanthrene	0.952	UG/L	U	U		0.952	1
	Phenol	9.52	UG/L	U	U		9.52	1
	Pyrene	0.952	UG/L	U	U		0.952	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1

Station: 7J-MW-05
Sample ID: 7J4578 Media: Groundwater
Date Collected: 04/19/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-06
Sample ID: 7J4678 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.643	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	36.5	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	226	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	11.9	UG/L	J	J		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.35	UG/L	U	U		9.35	1
	1,2,4-Trichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,2-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,3-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,4-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	2,4,5-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4,6-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dimethylphenol	9.35	UG/L	U	U		9.35	1
	2,4-Dinitrophenol	18.7	UG/L	U	U		18.7	1
	2,4-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2,6-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2-Chloronaphthalene	0.935	UG/L	U	U		0.935	1
	2-Chlorophenol	9.35	UG/L	U	U		9.35	1
	2-Methyl-4,6-dinitrophenol	9.35	UG/L	U	U		9.35	1
	2-Methylnaphthalene	0.935	UG/L	U	U		0.935	1
	2-Methylphenol	9.35	UG/L	U	U		9.35	1

Station: 7J-MW-06
Sample ID: 7J4678 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2-Nitroaniline	9.35	UG/L	U	U		9.35	1
	2-Nitrophenol	9.35	UG/L	U	U		9.35	1
	3,3'-Dichlorobenzidine	9.35	UG/L	U	U		9.35	1
	3-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Bromophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Chloro-3-methylphenol	9.35	UG/L	U	U		9.35	1
	4-Chloroaniline	9.35	UG/L	U	U		9.35	1
	4-Chlorophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Methylphenol	9.35	UG/L	U	U		9.35	1
	4-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Nitrophenol	9.35	UG/L	U	U		9.35	1
	Acenaphthene	0.935	UG/L	U	U		0.935	1
	Acenaphthylene	0.935	UG/L	U	U		0.935	1
	alpha-Terpineol	9.35	UG/L	U	U		9.35	1
	Anthracene	0.935	UG/L	U	U		0.935	1
	Atrazine	9.35	UG/L	U	U		9.35	1
	Benz(a)anthracene	0.935	UG/L	U	U		0.935	1
	Benzaldehyde	9.35	UG/L	U	U		9.35	1
	Benzenemethanol	9.35	UG/L	U	U		9.35	1
	Benzidine	9.35	UG/L	U	U		9.35	1
	Benzo(a)pyrene	0.935	UG/L	U	U		0.935	1
	Benzo(b)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzo(ghi)perylene	0.935	UG/L	U	U		0.935	1
	Benzo(k)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzoic acid	18.7	UG/L	U	U		18.7	1
	Bis(2-chloroethoxy)methane	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroethyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroisopropyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-ethylhexyl)phthalate	9.35	UG/L	U	U		9.35	1
	Butyl benzyl phthalate	9.35	UG/L	U	U		9.35	1
	Carbazole	0.935	UG/L	U	U		0.935	1
	Chrysene	0.935	UG/L	U	U		0.935	1
	Di-n-butyl phthalate	9.35	UG/L	U	U		9.35	1
	Di-n-octylphthalate	9.35	UG/L	U	U		9.35	1
	Dibenz(a,h)anthracene	0.935	UG/L	U	U		0.935	1
	Dibenzofuran	9.35	UG/L	U	U		9.35	1
	Diethyl phthalate	9.35	UG/L	U	U		9.35	1
	Dimethyl phthalate	9.35	UG/L	U	U		9.35	1
	Diphenylamine	9.35	UG/L	U	U		9.35	1
	Fluoranthene	0.935	UG/L	U	U		0.935	1
	Fluorene	0.935	UG/L	U	U		0.935	1
	Hexachlorobenzene	9.35	UG/L	U	U		9.35	1
	Hexachlorobutadiene	9.35	UG/L	U	U		9.35	1
	Hexachlorocyclopentadiene	9.35	UG/L	U	U		9.35	1
	Hexachloroethane	9.35	UG/L	U	U		9.35	1
	Indeno(1,2,3-cd)pyrene	0.935	UG/L	U	U		0.935	1
	Isophorone	9.35	UG/L	U	U		9.35	1
	N-Nitroso-di-n-propylamine	9.35	UG/L	U	U		9.35	1
	Naphthalene	0.935	UG/L	U	U		0.935	1
	Nitrobenzene	9.35	UG/L	U	U		9.35	1
	Pentachlorophenol	9.35	UG/L	U	U		9.35	1
	Phenanthrene	0.935	UG/L	U	U		0.935	1
	Phenol	9.35	UG/L	U	U		9.35	1
	Pyrene	0.935	UG/L	U	U		0.935	1
Volatile Organics	General Engineering Laboratory							

Station: 7J-MW-06
Sample ID: 7J4678 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-07
Sample ID: 7J4778 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.4	MG/L	U	U		0.4	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	1	MG/L	U	U		1	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	7600	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	68.4	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							

Station: 7J-MW-07
Sample ID: 7J4778 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.52	UG/L	U	U		9.52	1
	1,2,4-Trichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,2-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,3-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	1,4-Dichlorobenzene	9.52	UG/L	U	U		9.52	1
	2,4,5-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4,6-Trichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dichlorophenol	9.52	UG/L	U	U		9.52	1
	2,4-Dimethylphenol	9.52	UG/L	U	U		9.52	1
	2,4-Dinitrophenol	19	UG/L	U	U		19	1
	2,4-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2,6-Dinitrotoluene	9.52	UG/L	U	U		9.52	1
	2-Chloronaphthalene	0.952	UG/L	U	U		0.952	1
	2-Chlorophenol	9.52	UG/L	U	U		9.52	1
	2-Methyl-4,6-dinitrophenol	9.52	UG/L	U	U		9.52	1
	2-Methylnaphthalene	0.302	UG/L	J	J		0.952	1
	2-Methylphenol	9.52	UG/L	U	U		9.52	1
	2-Nitroaniline	9.52	UG/L	U	U		9.52	1
	2-Nitrophenol	9.52	UG/L	U	U		9.52	1
	3,3'-Dichlorobenzidine	9.52	UG/L	U	U		9.52	1
	3-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Bromophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Chloro-3-methylphenol	9.52	UG/L	U	U		9.52	1
	4-Chloroaniline	9.52	UG/L	U	U		9.52	1
	4-Chlorophenyl phenyl ether	9.52	UG/L	U	U		9.52	1
	4-Methylphenol	9.52	UG/L	U	U		9.52	1
	4-Nitroaniline	9.52	UG/L	U	U		9.52	1
	4-Nitrophenol	9.52	UG/L	U	U		9.52	1
	Acenaphthene	0.952	UG/L	U	U		0.952	1
	Acenaphthylene	0.952	UG/L	U	U		0.952	1
	alpha-Terpineol	9.52	UG/L	U	U		9.52	1
	Anthracene	0.952	UG/L	U	U		0.952	1
	Atrazine	9.52	UG/L	U	U		9.52	1
	Benz(a)anthracene	0.952	UG/L	U	U		0.952	1
	Benzaldehyde	9.52	UG/L	U	U		9.52	1
	Benzenemethanol	9.52	UG/L	U	U		9.52	1
	Benzidine	9.52	UG/L	U	U		9.52	1
	Benzo(a)pyrene	0.952	UG/L	U	U		0.952	1
	Benzo(b)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzo(ghi)perylene	0.952	UG/L	U	U		0.952	1
	Benzo(k)fluoranthene	0.952	UG/L	U	U		0.952	1
	Benzoic acid	19	UG/L	U	U		19	1
	Bis(2-chloroethoxy)methane	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroethyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-chloroisopropyl) ether	9.52	UG/L	U	U		9.52	1
	Bis(2-ethylhexyl)phthalate	9.52	UG/L	U	U		9.52	1
	Butyl benzyl phthalate	9.52	UG/L	U	U		9.52	1
	Carbazole	0.952	UG/L	U	U		0.952	1
	Chrysene	0.952	UG/L	U	U		0.952	1
	Di-n-butyl phthalate	9.52	UG/L	U	U		9.52	1
	Di-n-octylphthalate	9.52	UG/L	U	U		9.52	1
	Dibenz(a,h)anthracene	0.952	UG/L	U	U		0.952	1
	Dibenzofuran	9.52	UG/L	U	U		9.52	1
	Diethyl phthalate	9.52	UG/L	U	U		9.52	1
	Dimethyl phthalate	9.52	UG/L	U	U		9.52	1
	Diphenylamine	9.52	UG/L	U	U		9.52	1

Station: 7J-MW-07
Sample ID: 7J4778 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Fluoranthene	0.952	UG/L	U	U		0.952	1
	Fluorene	0.952	UG/L	U	U		0.952	1
	Hexachlorobenzene	9.52	UG/L	U	U		9.52	1
	Hexachlorobutadiene	9.52	UG/L	U	U		9.52	1
	Hexachlorocyclopentadiene	9.52	UG/L	U	U		9.52	1
	Hexachloroethane	9.52	UG/L	U	U		9.52	1
	Indeno(1,2,3-cd)pyrene	0.952	UG/L	U	U		0.952	1
	Isophorone	9.52	UG/L	U	U		9.52	1
	N-Nitroso-di-n-propylamine	9.52	UG/L	U	U		9.52	1
	Naphthalene	0.42	UG/L	J	J		0.952	1
	Nitrobenzene	9.52	UG/L	U	U		9.52	1
	Pentachlorophenol	9.52	UG/L	U	U		9.52	1
	Phenanthrene	0.952	UG/L	U	U		0.952	1
	Phenol	9.52	UG/L	U	U		9.52	1
	Pyrene	0.952	UG/L	U	U		0.952	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	2.6	UG/L		=		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	2.96	UG/L	J	J		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.273	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-09
Sample ID: 7J4978 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	3.41	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	1	MG/L	U	U		1	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	392	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	113	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.01	UG/L	U	U		9.01	1
	1,2,4-Trichlorobenzene	9.01	UG/L	U	U		9.01	1
	1,2-Dichlorobenzene	9.01	UG/L	U	U		9.01	1
	1,3-Dichlorobenzene	9.01	UG/L	U	U		9.01	1
	1,4-Dichlorobenzene	9.01	UG/L	U	U		9.01	1
	2,4,5-Trichlorophenol	9.01	UG/L	U	U		9.01	1
	2,4,6-Trichlorophenol	9.01	UG/L	U	U		9.01	1
	2,4-Dichlorophenol	9.01	UG/L	U	U		9.01	1
	2,4-Dimethylphenol	9.01	UG/L	U	U		9.01	1
	2,4-Dinitrophenol	18	UG/L	U	U		18	1
	2,4-Dinitrotoluene	9.01	UG/L	U	U		9.01	1
	2,6-Dinitrotoluene	9.01	UG/L	U	U		9.01	1
	2-Chloronaphthalene	0.901	UG/L	U	U		0.901	1
	2-Chlorophenol	9.01	UG/L	U	U		9.01	1
	2-Methyl-4,6-dinitrophenol	9.01	UG/L	U	U		9.01	1
	2-Methylnaphthalene	3.3	UG/L		=		0.901	1
	2-Methylphenol	9.01	UG/L	U	U		9.01	1
	2-Nitroaniline	9.01	UG/L	U	U		9.01	1
	2-Nitrophenol	9.01	UG/L	U	U		9.01	1
	3,3'-Dichlorobenzidine	9.01	UG/L	U	U		9.01	1
	3-Nitroaniline	9.01	UG/L	U	U		9.01	1
	4-Bromophenyl phenyl ether	9.01	UG/L	U	U		9.01	1
	4-Chloro-3-methylphenol	9.01	UG/L	U	U		9.01	1
	4-Chloroaniline	9.01	UG/L	U	U		9.01	1
	4-Chlorophenyl phenyl ether	9.01	UG/L	U	U		9.01	1
	4-Methylphenol	9.01	UG/L	U	U		9.01	1
	4-Nitroaniline	9.01	UG/L	U	U		9.01	1
	4-Nitrophenol	9.01	UG/L	U	U		9.01	1
	Acenaphthene	0.901	UG/L	U	U		0.901	1
	Acenaphthylene	0.901	UG/L	U	U		0.901	1
	alpha-Terpineol	9.01	UG/L	U	U		9.01	1
	Anthracene	0.901	UG/L	U	U		0.901	1
	Atrazine	9.01	UG/L	U	U		9.01	1
	Benz(a)anthracene	0.901	UG/L	U	U		0.901	1
	Benzaldehyde	9.01	UG/L	U	U		9.01	1
	Benzenemethanol	9.01	UG/L	U	U		9.01	1
	Benzidine	9.01	UG/L	U	U		9.01	1
	Benzo(a)pyrene	0.901	UG/L	U	U		0.901	1
	Benzo(b)fluoranthene	0.901	UG/L	U	U		0.901	1
	Benzo(ghi)perylene	0.901	UG/L	U	U		0.901	1
	Benzo(k)fluoranthene	0.901	UG/L	U	U		0.901	1
	Benzoic acid	18	UG/L	U	U		18	1
	Bis(2-chloroethoxy)methane	9.01	UG/L	U	U		9.01	1
	Bis(2-chloroethyl) ether	9.01	UG/L	U	U		9.01	1

Station: 7J-MW-09
Sample ID: 7J4978 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Bis(2-chloroisopropyl) ether	9.01	UG/L	U	U		9.01	1
	Bis(2-ethylhexyl)phthalate	9.01	UG/L	U	U		9.01	1
	Butyl benzyl phthalate	9.01	UG/L	U	U		9.01	1
	Carbazole	3.56	UG/L		=		0.901	1
	Chrysene	0.901	UG/L	U	U		0.901	1
	Di-n-butyl phthalate	9.01	UG/L	U	U		9.01	1
	Di-n-octylphthalate	9.01	UG/L	U	U		9.01	1
	Dibenz(a,h)anthracene	0.901	UG/L	U	U		0.901	1
	Dibenzofuran	9.01	UG/L	U	U		9.01	1
	Diethyl phthalate	9.01	UG/L	U	U		9.01	1
	Dimethyl phthalate	9.01	UG/L	U	U		9.01	1
	Diphenylamine	9.01	UG/L	U	U		9.01	1
	Fluoranthene	0.901	UG/L	U	U		0.901	1
	Fluorene	0.359	UG/L	J	J		0.901	1
	Hexachlorobenzene	9.01	UG/L	U	U		9.01	1
	Hexachlorobutadiene	9.01	UG/L	U	U		9.01	1
	Hexachlorocyclopentadiene	9.01	UG/L	U	U		9.01	1
	Hexachloroethane	9.01	UG/L	U	U		9.01	1
	Indeno(1,2,3-cd)pyrene	0.901	UG/L	U	U		0.901	1
	Isophorone	9.01	UG/L	U	U		9.01	1
	N-Nitroso-di-n-propylamine	9.01	UG/L	U	U		9.01	1
	Naphthalene	6.53	UG/L		=		0.901	1
	Nitrobenzene	9.01	UG/L	U	U		9.01	1
	Pentachlorophenol	9.01	UG/L	U	U		9.01	1
	Phenanthrene	0.37	UG/L	J	J		0.901	1
	Phenol	9.01	UG/L	U	U		9.01	1
	Pyrene	0.901	UG/L	U	U		0.901	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	6.35	UG/L		=		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.366	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1

Station: 7J-MW-09
Sample ID: 7J4978 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	0.323	UG/L	J	J		1	1

Station: 7J-MW-10
Sample ID: 7J4A78 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.374	MG/L	J	J		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	1	MG/L	U	U		1	1
EPA 376.2	Sulfide	0.1	MG/L	U	R	H03	0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	1760	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	112	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.62	UG/L	U	U		9.62	1
	1,2,4-Trichlorobenzene	9.62	UG/L	U	U		9.62	1
	1,2-Dichlorobenzene	9.62	UG/L	U	U		9.62	1
	1,3-Dichlorobenzene	9.62	UG/L	U	U		9.62	1
	1,4-Dichlorobenzene	9.62	UG/L	U	U		9.62	1
	2,4,5-Trichlorophenol	9.62	UG/L	U	U		9.62	1
	2,4,6-Trichlorophenol	9.62	UG/L	U	U		9.62	1
	2,4-Dichlorophenol	9.62	UG/L	U	U		9.62	1
	2,4-Dimethylphenol	9.62	UG/L	U	U		9.62	1
	2,4-Dinitrophenol	19.2	UG/L	U	U		19.2	1
	2,4-Dinitrotoluene	9.62	UG/L	U	U		9.62	1
	2,6-Dinitrotoluene	9.62	UG/L	U	U		9.62	1
	2-Chloronaphthalene	0.962	UG/L	U	U		0.962	1
	2-Chlorophenol	9.62	UG/L	U	U		9.62	1
	2-Methyl-4,6-dinitrophenol	9.62	UG/L	U	U		9.62	1
	2-Methylnaphthalene	1.37	UG/L		=		0.962	1
	2-Methylphenol	9.62	UG/L	U	U		9.62	1
	2-Nitroaniline	9.62	UG/L	U	U		9.62	1
	2-Nitrophenol	9.62	UG/L	U	U		9.62	1
	3,3'-Dichlorobenzidine	9.62	UG/L	U	U		9.62	1
	3-Nitroaniline	9.62	UG/L	U	U		9.62	1
	4-Bromophenyl phenyl ether	9.62	UG/L	U	U		9.62	1
	4-Chloro-3-methylphenol	9.62	UG/L	U	U		9.62	1
	4-Chloroaniline	9.62	UG/L	U	U		9.62	1
	4-Chlorophenyl phenyl ether	9.62	UG/L	U	U		9.62	1
	4-Methylphenol	9.62	UG/L	U	U		9.62	1
	4-Nitroaniline	9.62	UG/L	U	U		9.62	1

Station: 7J-MW-10
Sample ID: 7J4A78 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Nitrophenol	9.62	UG/L	U	U		9.62	1
	Acenaphthene	0.962	UG/L	U	U		0.962	1
	Acenaphthylene	0.962	UG/L	U	U		0.962	1
	alpha-Terpineol	9.62	UG/L	U	U		9.62	1
	Anthracene	0.962	UG/L	U	U		0.962	1
	Atrazine	9.62	UG/L	U	U		9.62	1
	Benz(a)anthracene	0.962	UG/L	U	U		0.962	1
	Benzaldehyde	9.62	UG/L	U	U		9.62	1
	Benzenemethanol	9.62	UG/L	U	U		9.62	1
	Benzidine	9.62	UG/L	U	U		9.62	1
	Benzo(a)pyrene	0.962	UG/L	U	U		0.962	1
	Benzo(b)fluoranthene	0.962	UG/L	U	U		0.962	1
	Benzo(ghi)perylene	0.962	UG/L	U	U		0.962	1
	Benzo(k)fluoranthene	0.962	UG/L	U	U		0.962	1
	Benzoic acid	19.2	UG/L	U	U		19.2	1
	Bis(2-chloroethoxy)methane	9.62	UG/L	U	U		9.62	1
	Bis(2-chloroethyl) ether	9.62	UG/L	U	U		9.62	1
	Bis(2-chloroisopropyl) ether	9.62	UG/L	U	U		9.62	1
	Bis(2-ethylhexyl)phthalate	9.62	UG/L	U	U		9.62	1
	Butyl benzyl phthalate	9.62	UG/L	U	U		9.62	1
	Carbazole	0.962	UG/L	U	U		0.962	1
	Chrysene	0.962	UG/L	U	U		0.962	1
	Di-n-butyl phthalate	9.62	UG/L	U	U		9.62	1
	Di-n-octylphthalate	9.62	UG/L	U	U		9.62	1
	Dibenz(a,h)anthracene	0.962	UG/L	U	U		0.962	1
	Dibenzofuran	9.62	UG/L	U	U		9.62	1
	Diethyl phthalate	9.62	UG/L	U	U		9.62	1
	Dimethyl phthalate	9.62	UG/L	U	U		9.62	1
	Diphenylamine	9.62	UG/L	U	U		9.62	1
	Fluoranthene	0.962	UG/L	U	U		0.962	1
	Fluorene	0.962	UG/L	U	U		0.962	1
	Hexachlorobenzene	9.62	UG/L	U	U		9.62	1
	Hexachlorobutadiene	9.62	UG/L	U	U		9.62	1
	Hexachlorocyclopentadiene	9.62	UG/L	U	U		9.62	1
	Hexachloroethane	9.62	UG/L	U	U		9.62	1
	Indeno(1,2,3-cd)pyrene	0.962	UG/L	U	U		0.962	1
	Isophorone	9.62	UG/L	U	U		9.62	1
	N-Nitroso-di-n-propylamine	9.62	UG/L	U	U		9.62	1
	Naphthalene	1.47	UG/L		=		0.962	1
	Nitrobenzene	9.62	UG/L	U	U		9.62	1
	Pentachlorophenol	9.62	UG/L	U	U		9.62	1
	Phenanthrene	0.248	UG/L	J	J		0.962	1
	Phenol	9.62	UG/L	U	U		9.62	1
	Pyrene	0.962	UG/L	U	U		0.962	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1

Station: 7J-MW-10
Sample ID: 7J4A78 Media: Groundwater
Date Collected: 04/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Acetone	5	UG/L	U	U		5	1
	Benzene	2.08	UG/L		=		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1.17	UG/L		=		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	0.916	UG/L	J	J		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	0.919	UG/L	J	J		1	1

Station: 7J-MW-13
Sample ID: 7J4D78 Media: Groundwater
Date Collected: 07/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	2.16	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.033	1
	Sulfate	3.36	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	80.8	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.2	MG/L	U	U		0.06	2
Inorganics	General Engineering Laboratory							
SW846 6010B	Iron	325	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	25	UG/L	U	U		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.9	UG/L	U	U		9.9	1
	1,2,4-Trichlorobenzene	9.9	UG/L	U	U		9.9	1
	1,2-Dichlorobenzene	9.9	UG/L	U	U		9.9	1
	1,3-Dichlorobenzene	9.9	UG/L	U	U		9.9	1
	1,4-Dichlorobenzene	9.9	UG/L	U	U		9.9	1
	2,4,5-Trichlorophenol	9.9	UG/L	U	U		9.9	1
	2,4,6-Trichlorophenol	9.9	UG/L	U	U		9.9	1
	2,4-Dichlorophenol	9.9	UG/L	U	U		9.9	1
	2,4-Dimethylphenol	9.9	UG/L	U	U		9.9	1
	2,4-Dinitrophenol	19.8	UG/L	U	U		19.8	1

Station: 7J-MW-13
Sample ID: 7J4D78 Media: Groundwater
Date Collected: 07/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2,4-Dinitrotoluene	9.9	UG/L	U	U		9.9	1
	2,6-Dinitrotoluene	9.9	UG/L	U	U		9.9	1
	2-Chloronaphthalene	0.99	UG/L	U	U		0.99	1
	2-Chlorophenol	9.9	UG/L	U	U		9.9	1
	2-Methyl-4,6-dinitrophenol	9.9	UG/L	U	U		9.9	1
	2-Methylnaphthalene	0.99	UG/L	U	U		0.99	1
	2-Methylphenol	9.9	UG/L	U	U		9.9	1
	2-Nitroaniline	9.9	UG/L	U	U		9.9	1
	2-Nitrophenol	9.9	UG/L	U	U		9.9	1
	3,3'-Dichlorobenzidine	9.9	UG/L	U	U		9.9	1
	3-Nitroaniline	9.9	UG/L	U	U		9.9	1
	4-Bromophenyl phenyl ether	9.9	UG/L	U	U		9.9	1
	4-Chloro-3-methylphenol	9.9	UG/L	U	U		9.9	1
	4-Chloroaniline	9.9	UG/L	U	U		9.9	1
	4-Chlorophenyl phenyl ether	9.9	UG/L	U	U		9.9	1
	4-Methylphenol	9.9	UG/L	U	U		9.9	1
	4-Nitroaniline	9.9	UG/L	U	U		9.9	1
	4-Nitrophenol	9.9	UG/L	U	U		9.9	1
	Acenaphthene	0.99	UG/L	U	U		0.99	1
	Acenaphthylene	0.99	UG/L	U	U		0.99	1
	alpha-Terpineol	9.9	UG/L	U	U		9.9	1
	Anthracene	0.99	UG/L	U	U		0.99	1
	Atrazine	9.9	UG/L	U	U		9.9	1
	Benz(a)anthracene	0.99	UG/L	U	U		0.99	1
	Benzaldehyde	9.9	UG/L	U	U		9.9	1
	Benzenemethanol	9.9	UG/L	U	U		9.9	1
	Benzidine	9.9	UG/L	U	UJ	C05	9.9	1
	Benzo(a)pyrene	0.99	UG/L	U	U		0.99	1
	Benzo(b)fluoranthene	0.99	UG/L	U	U		0.99	1
	Benzo(ghi)perylene	0.99	UG/L	U	U		0.99	1
	Benzo(k)fluoranthene	0.99	UG/L	U	U		0.99	1
	Benzoic acid	19.8	UG/L	U	U		19.8	1
	Bis(2-chloroethoxy)methane	9.9	UG/L	U	U		9.9	1
	Bis(2-chloroethyl) ether	9.9	UG/L	U	U		9.9	1
	Bis(2-chloroisopropyl) ether	9.9	UG/L	U	U		9.9	1
	Bis(2-ethylhexyl)phthalate	9.9	UG/L	U	U		9.9	1
	Butyl benzyl phthalate	9.9	UG/L	U	U		9.9	1
	Carbazole	0.99	UG/L	U	U		0.99	1
	Chrysene	0.99	UG/L	U	U		0.99	1
	Di-n-butyl phthalate	9.9	UG/L	U	U		9.9	1
	Di-n-octylphthalate	9.9	UG/L	U	U		9.9	1
	Dibenz(a,h)anthracene	0.99	UG/L	U	U		0.99	1
	Dibenzofuran	9.9	UG/L	U	U		9.9	1
	Diethyl phthalate	9.9	UG/L	U	U		9.9	1
	Dimethyl phthalate	9.9	UG/L	U	U		9.9	1
	Diphenylamine	9.9	UG/L	U	U		9.9	1
	Fluoranthene	0.99	UG/L	U	U		0.99	1
	Fluorene	0.99	UG/L	U	U		0.99	1
	Hexachlorobenzene	9.9	UG/L	U	U		9.9	1
	Hexachlorobutadiene	9.9	UG/L	U	U		9.9	1
	Hexachlorocyclopentadiene	9.9	UG/L	U	U		9.9	1
	Hexachloroethane	9.9	UG/L	U	U		9.9	1
	Indeno(1,2,3-cd)pyrene	0.99	UG/L	U	U		0.99	1
	Isophorone	9.9	UG/L	U	U		9.9	1
	N-Nitroso-di-n-propylamine	9.9	UG/L	U	U		9.9	1
	Naphthalene	0.99	UG/L	U	U		0.99	1

Station: 7J-MW-13
Sample ID: 7J4D78 Media: Groundwater
Date Collected: 07/18/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Nitrobenzene	9.9	UG/L	U	U		9.9	1
	Pentachlorophenol	9.9	UG/L	U	U		9.9	1
	Phenanthrene	0.99	UG/L	U	U		0.99	1
	Phenol	9.9	UG/L	U	U		9.9	1
	Pyrene	0.99	UG/L	U	U		0.99	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	1.31	UG/L	J	U	F04,F07	5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-14
Sample ID: 7J4E78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.1	MG/L	U	U		0.1	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	1.82	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	80	MG/L		=		0.725	1

Station: 7J-MW-14
Sample ID: 7J4E78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Inorganics	General Engineering Laboratory							
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
	Iron	1600	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	309	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	3.14	UG/L	J	J		9.35	1
	1,2,4-Trichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,2-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,3-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,4-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	2,4,5-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4,6-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dimethylphenol	9.35	UG/L	U	U		9.35	1
	2,4-Dinitrophenol	18.7	UG/L	U	U		18.7	1
	2,4-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2,6-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2-Chloronaphthalene	0.935	UG/L	U	U		0.935	1
	2-Chlorophenol	9.35	UG/L	U	U		9.35	1
	2-Methyl-4,6-dinitrophenol	9.35	UG/L	U	U		9.35	1
	2-Methylnaphthalene	5.49	UG/L		=		0.935	1
	2-Methylphenol	9.35	UG/L	U	U		9.35	1
	2-Nitroaniline	9.35	UG/L	U	U		9.35	1
	2-Nitrophenol	9.35	UG/L	U	U		9.35	1
	3,3'-Dichlorobenzidine	9.35	UG/L	U	U		9.35	1
	3-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Bromophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Chloro-3-methylphenol	9.35	UG/L	U	U		9.35	1
	4-Chloroaniline	9.35	UG/L	U	U		9.35	1
	4-Chlorophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Methylphenol	9.35	UG/L	U	U		9.35	1
	4-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Nitrophenol	9.35	UG/L	U	U		9.35	1
	Acenaphthene	0.673	UG/L	J	J		0.935	1
	Acenaphthylene	0.935	UG/L	U	U		0.935	1
	alpha-Terpineol	9.35	UG/L	U	U		9.35	1
	Anthracene	0.935	UG/L	U	U		0.935	1
	Atrazine	9.35	UG/L	U	U		9.35	1
	Benz(a)anthracene	0.935	UG/L	U	U		0.935	1
	Benzaldehyde	9.35	UG/L	U	U		9.35	1
	Benzenemethanol	9.35	UG/L	U	U		9.35	1
	Benzidine	9.35	UG/L	U	U		9.35	1
	Benzo(a)pyrene	0.935	UG/L	U	U		0.935	1
	Benzo(b)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzo(ghi)perylene	0.935	UG/L	U	U		0.935	1
	Benzo(k)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzoic acid	18.7	UG/L	U	U		18.7	1
	Bis(2-chloroethoxy)methane	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroethyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroisopropyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-ethylhexyl)phthalate	9.35	UG/L	U	U		9.35	1
	Butyl benzyl phthalate	9.35	UG/L	U	U		9.35	1
	Carbazole	5.05	UG/L		=		0.935	1
	Chrysene	0.935	UG/L	U	U		0.935	1

Station: 7J-MW-14
Sample ID: 7J4E78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Di-n-butyl phthalate	9.35	UG/L	U	U		9.35	1
	Di-n-octylphthalate	9.35	UG/L	U	U		9.35	1
	Dibenz(a,h)anthracene	0.935	UG/L	U	U		0.935	1
	Dibenzofuran	9.35	UG/L	U	U		9.35	1
	Diethyl phthalate	9.35	UG/L	U	U		9.35	1
	Dimethyl phthalate	9.35	UG/L	U	U		9.35	1
	Diphenylamine	9.35	UG/L	U	U		9.35	1
	Fluoranthene	0.935	UG/L	U	U		0.935	1
	Fluorene	1.61	UG/L		=		0.935	1
	Hexachlorobenzene	9.35	UG/L	U	U		9.35	1
	Hexachlorobutadiene	9.35	UG/L	U	U		9.35	1
	Hexachlorocyclopentadiene	9.35	UG/L	U	U		9.35	1
	Hexachloroethane	9.35	UG/L	U	U		9.35	1
	Indeno(1,2,3-cd)pyrene	0.935	UG/L	U	U		0.935	1
	Isophorone	9.35	UG/L	U	U		9.35	1
	N-Nitroso-di-n-propylamine	9.35	UG/L	U	U		9.35	1
	Naphthalene	30.8	UG/L		=		0.935	1
	Nitrobenzene	9.35	UG/L	U	U		9.35	1
	Pentachlorophenol	9.35	UG/L	U	U		9.35	1
	Phenanthrene	1.96	UG/L		=		0.935	1
	Phenol	9.35	UG/L	U	U		9.35	1
	Pyrene	0.935	UG/L	U	U		0.935	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	48.4	UG/L		=		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.42	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1

Station: 7J-MW-14
Sample ID: 7J4E78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	2.86	UG/L		=		1	1

Station: 7J-MW-15
Sample ID: 7J4F48 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Equipment Rinsate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.104	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.4	MG/L	U	U		0.4	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	22.4	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	43	UG/L	U	U		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	25	UG/L	U	U		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	10	UG/L	U	U		10	1
	1,2,4-Trichlorobenzene	10	UG/L	U	U		10	1
	1,2-Dichlorobenzene	10	UG/L	U	U		10	1
	1,3-Dichlorobenzene	10	UG/L	U	U		10	1
	1,4-Dichlorobenzene	10	UG/L	U	U		10	1
	2,4,5-Trichlorophenol	10	UG/L	U	U		10	1
	2,4,6-Trichlorophenol	10	UG/L	U	U		10	1
	2,4-Dichlorophenol	10	UG/L	U	U		10	1
	2,4-Dimethylphenol	10	UG/L	U	U		10	1
	2,4-Dinitrophenol	20	UG/L	U	U		20	1
	2,4-Dinitrotoluene	10	UG/L	U	U		10	1
	2,6-Dinitrotoluene	10	UG/L	U	U		10	1
	2-Chloronaphthalene	1	UG/L	U	U		1	1
	2-Chlorophenol	10	UG/L	U	U		10	1
	2-Methyl-4,6-dinitrophenol	10	UG/L	U	U		10	1
	2-Methylnaphthalene	1	UG/L	U	U		1	1
	2-Methylphenol	10	UG/L	U	U		10	1
	2-Nitroaniline	10	UG/L	U	U		10	1
	2-Nitrophenol	10	UG/L	U	U		10	1
	3,3'-Dichlorobenzidine	10	UG/L	U	U		10	1
	3-Nitroaniline	10	UG/L	U	U		10	1
	4-Bromophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Chloro-3-methylphenol	10	UG/L	U	U		10	1
	4-Chloroaniline	10	UG/L	U	U		10	1
	4-Chlorophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Methylphenol	10	UG/L	U	U		10	1
	4-Nitroaniline	10	UG/L	U	U		10	1
	4-Nitrophenol	10	UG/L	U	U		10	1
	Acenaphthene	1	UG/L	U	U		1	1
	Acenaphthylene	1	UG/L	U	U		1	1
	alpha-Terpineol	10	UG/L	U	U		10	1
	Anthracene	1	UG/L	U	U		1	1

Station: 7J-MW-15
Sample ID: 7J4F48 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Equipment Rinsate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Atrazine	10	UG/L	U	U		10	1
	Benz(a)anthracene	1	UG/L	U	U		1	1
	Benzaldehyde	10	UG/L	U	U		10	1
	Benzenemethanol	10	UG/L	U	U		10	1
	Benzidine	10	UG/L	U	U		10	1
	Benzo(a)pyrene	1	UG/L	U	U		1	1
	Benzo(b)fluoranthene	1	UG/L	U	U		1	1
	Benzo(ghi)perylene	1	UG/L	U	U		1	1
	Benzo(k)fluoranthene	1	UG/L	U	U		1	1
	Benzoic acid	20	UG/L	U	U		20	1
	Bis(2-chloroethoxy)methane	10	UG/L	U	U		10	1
	Bis(2-chloroethyl) ether	10	UG/L	U	U		10	1
	Bis(2-chloroisopropyl) ether	10	UG/L	U	U		10	1
	Bis(2-ethylhexyl)phthalate	10	UG/L	U	U		10	1
	Butyl benzyl phthalate	10	UG/L	U	U		10	1
	Carbazole	1	UG/L	U	U		1	1
	Chrysene	1	UG/L	U	U		1	1
	Di-n-butyl phthalate	10	UG/L	U	U		10	1
	Di-n-octylphthalate	10	UG/L	U	U		10	1
	Dibenz(a,h)anthracene	1	UG/L	U	U		1	1
	Dibenzofuran	10	UG/L	U	U		10	1
	Diethyl phthalate	10	UG/L	U	U		10	1
	Dimethyl phthalate	10	UG/L	U	U		10	1
	Diphenylamine	10	UG/L	U	U		10	1
	Fluoranthene	1	UG/L	U	U		1	1
	Fluorene	1	UG/L	U	U		1	1
	Hexachlorobenzene	10	UG/L	U	U		10	1
	Hexachlorobutadiene	10	UG/L	U	U		10	1
	Hexachlorocyclopentadiene	10	UG/L	U	U		10	1
	Hexachloroethane	10	UG/L	U	U		10	1
	Indeno(1,2,3-cd)pyrene	1	UG/L	U	U		1	1
	Isophorone	10	UG/L	U	U		10	1
	N-Nitroso-di-n-propylamine	10	UG/L	U	U		10	1
	Naphthalene	1	UG/L	U	U		1	1
	Nitrobenzene	10	UG/L	U	U		10	1
	Pentachlorophenol	10	UG/L	U	U		10	1
	Phenanthrene	1	UG/L	U	U		1	1
	Phenol	10	UG/L	U	U		10	1
	Pyrene	1	UG/L	U	U		1	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	1.76	UG/L	J	J		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	20.3	UG/L		=		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1

Station: 7J-MW-15
Sample ID: 7J4F48 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Equipment Rinsate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-15
Sample ID: 7J4F78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.153	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	0.614	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	0.725	MG/L	U	U		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	507	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	70.3	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	10	UG/L	U	U		10	1
	1,2,4-Trichlorobenzene	10	UG/L	U	U		10	1
	1,2-Dichlorobenzene	10	UG/L	U	U		10	1
	1,3-Dichlorobenzene	10	UG/L	U	U		10	1
	1,4-Dichlorobenzene	10	UG/L	U	U		10	1
	2,4,5-Trichlorophenol	10	UG/L	U	U		10	1
	2,4,6-Trichlorophenol	10	UG/L	U	U		10	1
	2,4-Dichlorophenol	10	UG/L	U	U		10	1
	2,4-Dimethylphenol	10	UG/L	U	U		10	1
	2,4-Dinitrophenol	20	UG/L	U	U		20	1
	2,4-Dinitrotoluene	10	UG/L	U	U		10	1
	2,6-Dinitrotoluene	10	UG/L	U	U		10	1
	2-Chloronaphthalene	1	UG/L	U	U		1	1
	2-Chlorophenol	10	UG/L	U	U		10	1
	2-Methyl-4,6-dinitrophenol	10	UG/L	U	U		10	1
	2-Methylnaphthalene	0.457	UG/L	J	J		1	1
	2-Methylphenol	10	UG/L	U	U		10	1

Station: 7J-MW-15
Sample ID: 7J4F78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2-Nitroaniline	10	UG/L	U	U		10	1
	2-Nitrophenol	10	UG/L	U	U		10	1
	3,3'-Dichlorobenzidine	10	UG/L	U	U		10	1
	3-Nitroaniline	10	UG/L	U	U		10	1
	4-Bromophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Chloro-3-methylphenol	10	UG/L	U	U		10	1
	4-Chloroaniline	10	UG/L	U	U		10	1
	4-Chlorophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Methylphenol	10	UG/L	U	U		10	1
	4-Nitroaniline	10	UG/L	U	U		10	1
	4-Nitrophenol	10	UG/L	U	U		10	1
	Acenaphthene	1	UG/L	U	U		1	1
	Acenaphthylene	1	UG/L	U	U		1	1
	alpha-Terpineol	10	UG/L	U	U		10	1
	Anthracene	1	UG/L	U	U		1	1
	Atrazine	10	UG/L	U	U		10	1
	Benz(a)anthracene	1	UG/L	U	U		1	1
	Benzaldehyde	10	UG/L	U	U		10	1
	Benzenemethanol	10	UG/L	U	U		10	1
	Benzidine	10	UG/L	U	U		10	1
	Benzo(a)pyrene	1	UG/L	U	U		1	1
	Benzo(b)fluoranthene	1	UG/L	U	U		1	1
	Benzo(ghi)perylene	1	UG/L	U	U		1	1
	Benzo(k)fluoranthene	1	UG/L	U	U		1	1
	Benzoic acid	20	UG/L	U	U		20	1
	Bis(2-chloroethoxy)methane	10	UG/L	U	U		10	1
	Bis(2-chloroethyl) ether	10	UG/L	U	U		10	1
	Bis(2-chloroisopropyl) ether	10	UG/L	U	U		10	1
	Bis(2-ethylhexyl)phthalate	3.22	UG/L	J	J	C05	10	1
	Butyl benzyl phthalate	10	UG/L	U	U		10	1
	Carbazole	1	UG/L	U	U		1	1
	Chrysene	1	UG/L	U	U		1	1
	Di-n-butyl phthalate	10	UG/L	U	U		10	1
	Di-n-octylphthalate	10	UG/L	U	U		10	1
	Dibenz(a,h)anthracene	1	UG/L	U	U		1	1
	Dibenzofuran	10	UG/L	U	U		10	1
	Diethyl phthalate	10	UG/L	U	U		10	1
	Dimethyl phthalate	10	UG/L	U	U		10	1
	Diphenylamine	10	UG/L	U	U		10	1
	Fluoranthene	1	UG/L	U	U		1	1
	Fluorene	1	UG/L	U	U		1	1
	Hexachlorobenzene	10	UG/L	U	U		10	1
	Hexachlorobutadiene	10	UG/L	U	U		10	1
	Hexachlorocyclopentadiene	10	UG/L	U	U		10	1
	Hexachloroethane	10	UG/L	U	U		10	1
	Indeno(1,2,3-cd)pyrene	1	UG/L	U	U		1	1
	Isophorone	10	UG/L	U	U		10	1
	N-Nitroso-di-n-propylamine	10	UG/L	U	U		10	1
	Naphthalene	6.58	UG/L		=		1	1
	Nitrobenzene	10	UG/L	U	U		10	1
	Pentachlorophenol	10	UG/L	U	U		10	1
	Phenanthrene	1	UG/L	U	U		1	1
	Phenol	10	UG/L	U	U		10	1
	Pyrene	1	UG/L	U	U		1	1
Volatile Organics	General Engineering Laboratory							

Station: 7J-MW-15
Sample ID: 7J4F78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	2.39	UG/L	J	J		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1.12	UG/L		=		1	1

Station: 7J-MW-16
Sample ID: 7J4G78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.131	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	11.5	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	110	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	1350	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	25	UG/L	U	U		25	1
Semi-Volatile Organics	General Engineering Laboratory							

Station: 7J-MW-16
Sample ID: 7J4G78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	10	UG/L	U	U		10	1
	1,2,4-Trichlorobenzene	10	UG/L	U	U		10	1
	1,2-Dichlorobenzene	10	UG/L	U	U		10	1
	1,3-Dichlorobenzene	10	UG/L	U	U		10	1
	1,4-Dichlorobenzene	10	UG/L	U	U		10	1
	2,4,5-Trichlorophenol	10	UG/L	U	U		10	1
	2,4,6-Trichlorophenol	10	UG/L	U	U		10	1
	2,4-Dichlorophenol	10	UG/L	U	U		10	1
	2,4-Dimethylphenol	10	UG/L	U	U		10	1
	2,4-Dinitrophenol	20	UG/L	U	U		20	1
	2,4-Dinitrotoluene	10	UG/L	U	U		10	1
	2,6-Dinitrotoluene	10	UG/L	U	U		10	1
	2-Chloronaphthalene	1	UG/L	U	U		1	1
	2-Chlorophenol	10	UG/L	U	U		10	1
	2-Methyl-4,6-dinitrophenol	10	UG/L	U	U		10	1
	2-Methylnaphthalene	1	UG/L	U	U		1	1
	2-Methylphenol	10	UG/L	U	U		10	1
	2-Nitroaniline	10	UG/L	U	U		10	1
	2-Nitrophenol	10	UG/L	U	U		10	1
	3,3'-Dichlorobenzidine	10	UG/L	U	U		10	1
	3-Nitroaniline	10	UG/L	U	U		10	1
	4-Bromophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Chloro-3-methylphenol	10	UG/L	U	U		10	1
	4-Chloroaniline	10	UG/L	U	U		10	1
	4-Chlorophenyl phenyl ether	10	UG/L	U	U		10	1
	4-Methylphenol	10	UG/L	U	U		10	1
	4-Nitroaniline	10	UG/L	U	U		10	1
	4-Nitrophenol	10	UG/L	U	U		10	1
	Acenaphthene	1	UG/L	U	U		1	1
	Acenaphthylene	1	UG/L	U	U		1	1
	alpha-Terpineol	10	UG/L	U	U		10	1
	Anthracene	1	UG/L	U	U		1	1
	Atrazine	10	UG/L	U	U		10	1
	Benz(a)anthracene	1	UG/L	U	U		1	1
	Benzaldehyde	10	UG/L	U	U		10	1
	Benzenemethanol	10	UG/L	U	U		10	1
	Benzidine	10	UG/L	U	U		10	1
	Benzo(a)pyrene	1	UG/L	U	U		1	1
	Benzo(b)fluoranthene	1	UG/L	U	U		1	1
	Benzo(ghi)perylene	1	UG/L	U	U		1	1
	Benzo(k)fluoranthene	1	UG/L	U	U		1	1
	Benzoic acid	20	UG/L	U	U		20	1
	Bis(2-chloroethoxy)methane	10	UG/L	U	U		10	1
	Bis(2-chloroethyl) ether	10	UG/L	U	U		10	1
	Bis(2-chloroisopropyl) ether	10	UG/L	U	U		10	1
	Bis(2-ethylhexyl)phthalate	6.04	UG/L	J	J	C05	10	1
	Butyl benzyl phthalate	10	UG/L	U	U		10	1
	Carbazole	1	UG/L	U	U		1	1
	Chrysene	1	UG/L	U	U		1	1
	Di-n-butyl phthalate	10	UG/L	U	U		10	1
	Di-n-octylphthalate	10	UG/L	U	U		10	1
	Dibenz(a,h)anthracene	1	UG/L	U	U		1	1
	Dibenzofuran	10	UG/L	U	U		10	1
	Diethyl phthalate	10	UG/L	U	U		10	1
	Dimethyl phthalate	10	UG/L	U	U		10	1
	Diphenylamine	10	UG/L	U	U		10	1

Station: 7J-MW-16
Sample ID: 7J4G78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Fluoranthene	1	UG/L	U	U		1	1
	Fluorene	1	UG/L	U	U		1	1
	Hexachlorobenzene	10	UG/L	U	U		10	1
	Hexachlorobutadiene	10	UG/L	U	U		10	1
	Hexachlorocyclopentadiene	10	UG/L	U	U		10	1
	Hexachloroethane	10	UG/L	U	U		10	1
	Indeno(1,2,3-cd)pyrene	1	UG/L	U	U		1	1
	Isophorone	10	UG/L	U	U		10	1
	N-Nitroso-di-n-propylamine	10	UG/L	U	U		10	1
	Naphthalene	1	UG/L	U	U		1	1
	Nitrobenzene	10	UG/L	U	U		10	1
	Pentachlorophenol	10	UG/L	U	U		10	1
	Phenanthrene	1	UG/L	U	U		1	1
	Phenol	10	UG/L	U	U		10	1
	Pyrene	1	UG/L	U	U		1	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-17
Sample ID: 7J4H78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.499	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	2.93	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	37.3	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	UJ	H02	0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	190	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	6.27	UG/L	J	J		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.35	UG/L	U	U		9.35	1
	1,2,4-Trichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,2-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,3-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,4-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	2,4,5-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4,6-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dimethylphenol	9.35	UG/L	U	U		9.35	1
	2,4-Dinitrophenol	18.7	UG/L	U	U		18.7	1
	2,4-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2,6-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2-Chloronaphthalene	0.935	UG/L	U	U		0.935	1
	2-Chlorophenol	9.35	UG/L	U	U		9.35	1
	2-Methyl-4,6-dinitrophenol	9.35	UG/L	U	U		9.35	1
	2-Methylnaphthalene	0.935	UG/L	U	U		0.935	1
	2-Methylphenol	9.35	UG/L	U	U		9.35	1
	2-Nitroaniline	9.35	UG/L	U	U		9.35	1
	2-Nitrophenol	9.35	UG/L	U	U		9.35	1
	3,3'-Dichlorobenzidine	9.35	UG/L	U	U		9.35	1
	3-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Bromophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Chloro-3-methylphenol	9.35	UG/L	U	U		9.35	1
	4-Chloroaniline	9.35	UG/L	U	U		9.35	1
	4-Chlorophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Methylphenol	9.35	UG/L	U	U		9.35	1
	4-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Nitrophenol	9.35	UG/L	U	U		9.35	1
	Acenaphthene	0.935	UG/L	U	U		0.935	1
	Acenaphthylene	0.935	UG/L	U	U		0.935	1
	alpha-Terpineol	9.35	UG/L	U	U		9.35	1
	Anthracene	0.935	UG/L	U	U		0.935	1
	Atrazine	9.35	UG/L	U	U		9.35	1
	Benz(a)anthracene	0.935	UG/L	U	U		0.935	1
	Benzaldehyde	9.35	UG/L	U	U		9.35	1
	Benzenemethanol	9.35	UG/L	U	U		9.35	1
	Benzidine	9.35	UG/L	U	U		9.35	1
	Benzo(a)pyrene	0.935	UG/L	U	U		0.935	1
	Benzo(b)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzo(ghi)perylene	0.935	UG/L	U	U		0.935	1
	Benzo(k)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzoic acid	18.7	UG/L	U	U		18.7	1
	Bis(2-chloroethoxy)methane	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroethyl) ether	9.35	UG/L	U	U		9.35	1

Station: 7J-MW-17
Sample ID: 7J4H78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Bis(2-chloroisopropyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-ethylhexyl)phthalate	9.35	UG/L	U	U		9.35	1
	Butyl benzyl phthalate	9.35	UG/L	U	U		9.35	1
	Carbazole	0.935	UG/L	U	U		0.935	1
	Chrysene	0.935	UG/L	U	U		0.935	1
	Di-n-butyl phthalate	9.35	UG/L	U	U		9.35	1
	Di-n-octylphthalate	9.35	UG/L	U	U		9.35	1
	Dibenz(a,h)anthracene	0.935	UG/L	U	U		0.935	1
	Dibenzofuran	9.35	UG/L	U	U		9.35	1
	Diethyl phthalate	9.35	UG/L	U	U		9.35	1
	Dimethyl phthalate	9.35	UG/L	U	U		9.35	1
	Diphenylamine	9.35	UG/L	U	U		9.35	1
	Fluoranthene	0.935	UG/L	U	U		0.935	1
	Fluorene	0.935	UG/L	U	U		0.935	1
	Hexachlorobenzene	9.35	UG/L	U	U		9.35	1
	Hexachlorobutadiene	9.35	UG/L	U	U		9.35	1
	Hexachlorocyclopentadiene	9.35	UG/L	U	U		9.35	1
	Hexachloroethane	9.35	UG/L	U	U		9.35	1
	Indeno(1,2,3-cd)pyrene	0.935	UG/L	U	U		0.935	1
	Isophorone	9.35	UG/L	U	U		9.35	1
	N-Nitroso-di-n-propylamine	9.35	UG/L	U	U		9.35	1
	Naphthalene	0.935	UG/L	U	U		0.935	1
	Nitrobenzene	9.35	UG/L	U	U		9.35	1
	Pentachlorophenol	9.35	UG/L	U	U		9.35	1
	Phenanthrene	0.935	UG/L	U	U		0.935	1
	Phenol	9.35	UG/L	U	U		9.35	1
	Pyrene	0.935	UG/L	U	U		0.935	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	2.31	UG/L	J	J		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1

Station: 7J-MW-17
Sample ID: 7J4H78 Media: Groundwater
Date Collected: 04/20/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-18
Sample ID: 7J4J28 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.261	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	3.23	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	175	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	2580	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	298	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.43	UG/L	U	U		9.43	1
	1,2,4-Trichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,2-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,3-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	1,4-Dichlorobenzene	9.43	UG/L	U	U		9.43	1
	2,4,5-Trichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4,6-Trichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4-Dichlorophenol	9.43	UG/L	U	U		9.43	1
	2,4-Dimethylphenol	9.43	UG/L	U	U		9.43	1
	2,4-Dinitrophenol	18.9	UG/L	U	U		18.9	1
	2,4-Dinitrotoluene	9.43	UG/L	U	U		9.43	1
	2,6-Dinitrotoluene	9.43	UG/L	U	U		9.43	1
	2-Chloronaphthalene	0.943	UG/L	U	U		0.943	1
	2-Chlorophenol	9.43	UG/L	U	U		9.43	1
	2-Methyl-4,6-dinitrophenol	9.43	UG/L	U	U		9.43	1
	2-Methylnaphthalene	6.56	UG/L		=		0.943	1
	2-Methylphenol	9.43	UG/L	U	U		9.43	1
	2-Nitroaniline	9.43	UG/L	U	U		9.43	1
	2-Nitrophenol	9.43	UG/L	U	U		9.43	1
	3,3'-Dichlorobenzidine	9.43	UG/L	U	U		9.43	1
	3-Nitroaniline	9.43	UG/L	U	U		9.43	1
	4-Bromophenyl phenyl ether	9.43	UG/L	U	U		9.43	1
	4-Chloro-3-methylphenol	9.43	UG/L	U	U		9.43	1
	4-Chloroaniline	9.43	UG/L	U	U		9.43	1
	4-Chlorophenyl phenyl ether	9.43	UG/L	U	U		9.43	1
	4-Methylphenol	9.43	UG/L	U	U		9.43	1
	4-Nitroaniline	9.43	UG/L	U	U		9.43	1

Station: 7J-MW-18
Sample ID: 7J4J28 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	4-Nitrophenol	9.43	UG/L	U	U		9.43	1
	Acenaphthene	0.943	UG/L	U	U		0.943	1
	Acenaphthylene	0.943	UG/L	U	U		0.943	1
	alpha-Terpineol	9.43	UG/L	U	U		9.43	1
	Anthracene	0.943	UG/L	U	U		0.943	1
	Atrazine	9.43	UG/L	U	U		9.43	1
	Benz(a)anthracene	0.943	UG/L	U	U		0.943	1
	Benzaldehyde	9.43	UG/L	U	U		9.43	1
	Benzenemethanol	9.43	UG/L	U	U		9.43	1
	Benzidine	9.43	UG/L	U	U		9.43	1
	Benzo(a)pyrene	0.943	UG/L	U	U		0.943	1
	Benzo(b)fluoranthene	0.943	UG/L	U	U		0.943	1
	Benzo(ghi)perylene	0.943	UG/L	U	U		0.943	1
	Benzo(k)fluoranthene	0.943	UG/L	U	U		0.943	1
	Benzoic acid	18.9	UG/L	U	U		18.9	1
	Bis(2-chloroethoxy)methane	9.43	UG/L	U	U		9.43	1
	Bis(2-chloroethyl) ether	9.43	UG/L	U	U		9.43	1
	Bis(2-chloroisopropyl) ether	9.43	UG/L	U	U		9.43	1
	Bis(2-ethylhexyl)phthalate	9.43	UG/L	U	U		9.43	1
	Butyl benzyl phthalate	9.43	UG/L	U	U		9.43	1
	Carbazole	0.943	UG/L	U	U		0.943	1
	Chrysene	0.943	UG/L	U	U		0.943	1
	Di-n-butyl phthalate	9.43	UG/L	U	U		9.43	1
	Di-n-octylphthalate	9.43	UG/L	U	U		9.43	1
	Dibenz(a,h)anthracene	0.943	UG/L	U	U		0.943	1
	Dibenzofuran	9.43	UG/L	U	U		9.43	1
	Diethyl phthalate	9.43	UG/L	U	U		9.43	1
	Dimethyl phthalate	9.43	UG/L	U	U		9.43	1
	Diphenylamine	9.43	UG/L	U	U		9.43	1
	Fluoranthene	0.943	UG/L	U	U		0.943	1
	Fluorene	0.441	UG/L	J	J		0.943	1
	Hexachlorobenzene	9.43	UG/L	U	U		9.43	1
	Hexachlorobutadiene	9.43	UG/L	U	U		9.43	1
	Hexachlorocyclopentadiene	9.43	UG/L	U	U		9.43	1
	Hexachloroethane	9.43	UG/L	U	U		9.43	1
	Indeno(1,2,3-cd)pyrene	0.943	UG/L	U	U		0.943	1
	Isophorone	9.43	UG/L	U	U		9.43	1
	N-Nitroso-di-n-propylamine	9.43	UG/L	U	U		9.43	1
	Naphthalene	4.46	UG/L		=		0.943	1
	Nitrobenzene	9.43	UG/L	U	U		9.43	1
	Pentachlorophenol	9.43	UG/L	U	U		9.43	1
	Phenanthrene	0.582	UG/L	J	J		0.943	1
	Phenol	9.43	UG/L	U	U		9.43	1
	Pyrene	0.943	UG/L	U	U		0.943	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1

Station: 7J-MW-18
Sample ID: 7J4J28 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	Acetone	2.16	UG/L	J	J		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.313	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: 7J-MW-18
Sample ID: 7J4J78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Common Anions	General Engineering Laboratory							
EPA 300.0	Nitrate	0.276	MG/L		=		0.033	1
	Nitrite	0.1	MG/L	U	U		0.1	1
	Sulfate	3.51	MG/L		=		0.1	1
General Chemistry	General Engineering Laboratory							
SM4500-CO2	Carbon Dioxide	180	MG/L		=		0.725	1
EPA 376.2	Sulfide	0.1	MG/L	U	U		0.1	1
Inorganics	General Engineering Laboratory							
SW846 6010	Iron	2590	UG/L		=		43	1
Organic Gases	General Engineering Laboratory							
SW846 3810	Methane	283	UG/L		=		25	1
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	1,1-Biphenyl	9.35	UG/L	U	U		9.35	1
	1,2,4-Trichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,2-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,3-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	1,4-Dichlorobenzene	9.35	UG/L	U	U		9.35	1
	2,4,5-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4,6-Trichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dichlorophenol	9.35	UG/L	U	U		9.35	1
	2,4-Dimethylphenol	9.35	UG/L	U	U		9.35	1
	2,4-Dinitrophenol	18.7	UG/L	U	U		18.7	1
	2,4-Dinitrotoluene	9.35	UG/L	U	U		9.35	1
	2,6-Dinitrotoluene	9.35	UG/L	U	U		9.35	1

Station: 7J-MW-18
Sample ID: 7J4J78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	2-Chloronaphthalene	0.935	UG/L	U	U		0.935	1
	2-Chlorophenol	9.35	UG/L	U	U		9.35	1
	2-Methyl-4,6-dinitrophenol	9.35	UG/L	U	U		9.35	1
	2-Methylnaphthalene	6.9	UG/L		=		0.935	1
	2-Methylphenol	9.35	UG/L	U	U		9.35	1
	2-Nitroaniline	9.35	UG/L	U	U		9.35	1
	2-Nitrophenol	9.35	UG/L	U	U		9.35	1
	3,3'-Dichlorobenzidine	9.35	UG/L	U	U		9.35	1
	3-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Bromophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Chloro-3-methylphenol	9.35	UG/L	U	U		9.35	1
	4-Chloroaniline	9.35	UG/L	U	U		9.35	1
	4-Chlorophenyl phenyl ether	9.35	UG/L	U	U		9.35	1
	4-Methylphenol	9.35	UG/L	U	U		9.35	1
	4-Nitroaniline	9.35	UG/L	U	U		9.35	1
	4-Nitrophenol	9.35	UG/L	U	U		9.35	1
	Acenaphthene	0.935	UG/L	U	U		0.935	1
	Acenaphthylene	0.935	UG/L	U	U		0.935	1
	alpha-Terpineol	9.35	UG/L	U	U		9.35	1
	Anthracene	0.935	UG/L	U	U		0.935	1
	Atrazine	9.35	UG/L	U	U		9.35	1
	Benz(a)anthracene	0.935	UG/L	U	U		0.935	1
	Benzaldehyde	9.35	UG/L	U	U		9.35	1
	Benzenemethanol	9.35	UG/L	U	U		9.35	1
	Benzidine	9.35	UG/L	U	U		9.35	1
	Benzo(a)pyrene	0.935	UG/L	U	U		0.935	1
	Benzo(b)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzo(ghi)perylene	0.935	UG/L	U	U		0.935	1
	Benzo(k)fluoranthene	0.935	UG/L	U	U		0.935	1
	Benzoic acid	18.7	UG/L	U	U		18.7	1
	Bis(2-chloroethoxy)methane	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroethyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-chloroisopropyl) ether	9.35	UG/L	U	U		9.35	1
	Bis(2-ethylhexyl)phthalate	9.35	UG/L	U	U		9.35	1
	Butyl benzyl phthalate	9.35	UG/L	U	U		9.35	1
	Carbazole	0.935	UG/L	U	U		0.935	1
	Chrysene	0.935	UG/L	U	U		0.935	1
	Di-n-butyl phthalate	9.35	UG/L	U	U		9.35	1
	Di-n-octylphthalate	9.35	UG/L	U	U		9.35	1
	Dibenz(a,h)anthracene	0.935	UG/L	U	U		0.935	1
	Dibenzofuran	9.35	UG/L	U	U		9.35	1
	Diethyl phthalate	9.35	UG/L	U	U		9.35	1
	Dimethyl phthalate	9.35	UG/L	U	U		9.35	1
	Diphenylamine	9.35	UG/L	U	U		9.35	1
	Fluoranthene	0.935	UG/L	U	U		0.935	1
	Fluorene	0.491	UG/L	J	J		0.935	1
	Hexachlorobenzene	9.35	UG/L	U	U		9.35	1
	Hexachlorobutadiene	9.35	UG/L	U	U		9.35	1
	Hexachlorocyclopentadiene	9.35	UG/L	U	U		9.35	1
	Hexachloroethane	9.35	UG/L	U	U		9.35	1
	Indeno(1,2,3-cd)pyrene	0.935	UG/L	U	U		0.935	1
	Isophorone	9.35	UG/L	U	U		9.35	1
	N-Nitroso-di-n-propylamine	9.35	UG/L	U	U		9.35	1
	Naphthalene	4.83	UG/L		=		0.935	1
	Nitrobenzene	9.35	UG/L	U	U		9.35	1
	Pentachlorophenol	9.35	UG/L	U	U		9.35	1

Station: 7J-MW-18
Sample ID: 7J4J78 Media: Groundwater
Date Collected: 04/22/2007 Field Sample Type: Grab

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Semi-Volatile Organics	General Engineering Laboratory							
SW846 8270C	Phenanthrene	0.638	UG/L	J	J		0.935	1
	Phenol	9.35	UG/L	U	U		9.35	1
	Pyrene	0.935	UG/L	U	U		0.935	1
Volatile Organics	General Engineering Laboratory							
SW846 8260B	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	0.35	UG/L	J	J		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: QC
Sample ID: TB0426 Media: Quality Control
Date Collected: 04/18/2007 Field Sample Type: Trip Blank

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
SW846 8260B	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1

Station: QC
Sample ID: TB0426 Media: Quality Control
Date Collected: 04/18/2007 Field Sample Type: Trip Blank

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	2-Butanone	5	UG/L	U	U		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	5	UG/L	U	U		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1
	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

Station: QC
Sample ID: TB0433 Media: Quality Control
Date Collected: 07/18/2007 Field Sample Type: Trip Blank

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
	1,1,1-Trichloroethane	1	UG/L	U	U		1	1
SW846 8260B	1,1,2,2-Tetrachloroethane	1	UG/L	U	U		1	1
	1,1,2-Trichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethane	1	UG/L	U	U		1	1
	1,1-Dichloroethene	1	UG/L	U	U		1	1
	1,2-Dichloroethane	1	UG/L	U	U		1	1
	1,2-Dichloropropane	1	UG/L	U	U		1	1
	2-Butanone	2.28	UG/L	J	J		5	1
	2-Hexanone	5	UG/L	U	U		5	1
	4-Methyl-2-pentanone	5	UG/L	U	U		5	1
	Acetone	13.3	UG/L		=		5	1
	Benzene	1	UG/L	U	U		1	1
	Bromodichloromethane	1	UG/L	U	U		1	1
	Bromoform	1	UG/L	U	U		1	1
	Bromomethane	1	UG/L	U	U		1	1
	Carbon disulfide	5	UG/L	U	U		5	1
	Carbon tetrachloride	1	UG/L	U	U		1	1
	Chlorobenzene	1	UG/L	U	U		1	1
	Chloroethane	1	UG/L	U	U		1	1
	Chloroform	1	UG/L	U	U		1	1
	Chloromethane	1	UG/L	U	U		1	1

Station: QC
Sample ID: TB0433 Media: Quality Control
Date Collected: 07/18/2007 Field Sample Type: Trip Blank

Analysis	Chemical	Result	Units	Lab Qual	Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	General Engineering Laboratory							
SW846 8260B	cis-1,2-Dichloroethene	1	UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Dibromochloromethane	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	5	UG/L	U	U		5	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,2-Dichloroethene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl acetate	5	UG/L	U	U		5	1
	Vinyl chloride	1	UG/L	U	U		1	1
	Xylenes, Total	1	UG/L	U	U		1	1

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CHAIN OF CUSTODY RECORD 184652/

COC NO.: 27F020

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-9744-300

PROJECT MANAGER: Jeff Longaker

Sampler (Signature): Wayne H. Parker (Printed Name): WAYNE H. PARKER

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	VOC	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
7J4778	04/18/07	1215	WATER				1	1			2		
7J4478	04/18/07	1537	WATER				1	1			2		
7J4428	04/18/07	1537	WATER				1	1			2		
7J4A78	04/18/07	1800	WATER				1	1			2		
7J4978	04/18/07	1350	WATER				1	1			2		

CTT

WHP

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 10	Cooler Temperature: 3°C
Wayne H. Parker	04/19/07 1000	FED EX	04/19/07 1000	Cooler ID:	FEDEX NUMBER:
COMPANY NAME: SAIC		COMPANY NAME: FEDEX			
RECEIVED BY: Mike Taylor	Date/Time 4-20-07 0930	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: 27F021

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-9744-300

PROJECT MANAGER: Jeff Longaker

Sampler (Signature): Wayne H. Parker (Printed Name): WAYNE H. PARKER

184706 REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	VOC	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
001 7J4578	04/19/07	1305	WATER				1	1			2		
002 7J4378	04/19/07	1705	WATER				1	1			2		
003 7J4678	04/20/07	1135	WATER				1	1			2		
004 7J4H78	04/20/07	0940	WATER				1	1			2		
005 7J4E78	04/20/07	1310	WATER				1	1			2		

C-78

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

RELINQUISHED BY: Wayne H. Parker	Date/Time 04/20/07 1500	RECEIVED BY: FED EX	Date/Time 04/20/07 1500	TOTAL NUMBER OF CONTAINERS: 10	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: FED EX		Cooler ID:	FEDEX NUMBER:
RECEIVED BY: C. Duncan	Date/Time 4/21/07 0930	RELINQUISHED BY:	Date/Time		
COMPANY NAME: KEL		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			

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Page 1 of 2

CHAIN OF CUSTODY RECORD 184744

COC NO.: 27F022

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-9744-300

PROJECT MANAGER: Jeff Longaker

Sampler (Signature) (Printed Name)

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	VOC	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
TB0426	04/18/07	0700	WATER	2							2		
7J4A78	04/18/07	1800	WATER	2	2	2			1	1	8		(methane) HCL Ph<2
7J4428	04/18/07	1537	WATER	2	2	2			1	1	8		
7J4778	04/18/07	1215	WATER	2	2	2			1	1	8		
7J4478	04/18/07	1537	WATER	2	2	2			1	1	8		
7J4978	04/18/07	1350	WATER	2	2	2			1	1	8		
7J4378	04/19/07	1705	WATER	2	2	2			1	1	8		
7J4578	04/19/07	1305	WATER	2	2	2			1	1	8		
7J4678	04/20/07	1135	WATER	2	2	2			1	1	8		
7J4H78	04/20/07	0940	WATER	2	2	2			1	1	8		
7J4E78	04/20/07	1310	WATER	2	2	2			1	1	8		
7J4178*	04/22/07	1125	WATER	2	2	2	1	1	1	1	10		
7J4128	04/22/07	1125	WATER	2	2	2	1	1	1	1	10		

5 C-79

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
Nagath Vann	04/23/07 1630	C. Dewick	4.23.07 1910	Cooler ID:	FEDEX NUMBER:
COMPANY NAME: SAIC		COMPANY NAME: AEL			
RECEIVED BY:	Date/Time 042307 1630	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time 42307 1900	RECEIVED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			

* client indicated that ID should be 7J4J78 see attached email

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CHAIN OF CUSTODY RECORD

COC NO.: 27F022

PROJECT NAME: SWMU-27F

PROJECT NUMBER: 01-1055-04-9744-300

PROJECT MANAGER: Jeff Longaker

Sampler (Signature) (Printed Name)

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	VOC	SVOC	Methane	Carbon Dioxide	Nitrate, Nitrite, Sulfate	Sulfide	Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
7J4F78	04/22/07	1440	WATER	2	2	2	1	1	1	1	10		
7J4F48	04/22/07	1750	WATER	2	2	2	1	1	1	1	10		
7J4178	04/22/07	1505	WATER	2	2	2	1	1	1	1	10		
7J4G78	04/22/07	1730	WATER	2	2	2	1	1	1	1	10		

REQUESTED PARAMETERS

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Wayne H. Kam	04/23/07	C. Dunicath	4.23.07
COMPANY NAME: SAIC	1630	COMPANY NAME: GEL	1900
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:	04/23/07 1630	COMPANY NAME:	
RELINQUISHED BY:	Date/Time 042307	RECEIVED BY:	Date/Time
COMPANY NAME:	1901	COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 142

Cooler ID:

Cooler Temperature: 3°C

FEDEX NUMBER:

*Laboratory is Instructed to Run Methane with HCl preservative
* Run All Samples
* SVOCs Dated 04/18/07 close to hold Time
* Carbon Dioxide & Nitrate, Nitrite, Sulfate 48hr hold

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CHAIN OF CUSTODY RECORD

189872 COC NO.: GLTM62

PROJECT NAME: Fort Stewart SWMU-27F

PROJECT NUMBER: 01-1055-04-9744-300

PROJECT MANAGER: Jeff Longaker

Sampler (Signature): (Printed Name): WAYNE H. PARKER

LABORATORY NAME: SAIC Canada

LABORATORY ADDRESS: 335 River Road South, Gloucester ON, Canada K1V1C7

PHONE NO: (613) 990-7147

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: 07/18/07 WHP; VOC w/o MeOH; SVOC; Nitrate, Nitrite, Sulfate; Sulfide; CO2; Methane; Total Iron	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
7J4D78	07/18/07	1242	WATER	2 2 1 1 1 2 1	10		
TB0433	07/18/07	0700	WATER	2	2		

WHP

C-81

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
COMPANY NAME: SAIC	07/18/07 1600	COMPANY NAME: GEL	7/19/07 0730	Cooler ID:	FEDEX NUMBER: 8431 2138 1291
RECEIVED BY: FEDEX	07/18/07 1600	RELINQUISHED BY:	Date/Time		
COMPANY NAME: SAFFEDEX		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			

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APPENDIX D
EPA REGION 9 PRELIMINARY REMEDIATION GOALS

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Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG ca* (where: nc PRG < 100X ca PRG)
ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
8.7E-03	i	4.0E-03	i	8.7E-03	r	4.0E-03	r	0.1	30560-19-1	Acephate	5.6E+01	ca**	2.0E+02	ca*	7.7E-01	ca*	7.7E+00	ca*		
				7.7E-03	i	2.6E-03	i y		75-07-0	Acetaldehyde	1.1E+01	ca**	2.3E+01	ca**	8.7E-01	ca*	1.7E+00	ca		
		2.0E-02	i			2.0E-02	r	0.1	34256-82-1	Acetochlor	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		9.0E-01	i			9.0E-01	r y		67-64-1	**Acetone**	1.4E+04	nc	5.4E+04	nc	3.3E+03	nc	5.5E+03	nc	1.6E+01	8.0E-01
		8.0E-04	h			8.0E-04	r	0.1	75-86-5	Acetone cyanohydrin	4.9E+01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc		
		1.7E-02	r			1.7E-02	i y		75-05-8	Acetonitrile	4.2E+02	nc	1.8E+03	nc	6.2E+01	nc	1.0E+02	nc		
		5.0E-04	i			5.7E-06	i y		107-02-8	**Acrolein**	1.0E-01	nc	3.4E-01	nc	2.1E-02	nc	4.2E-02	nc		
4.5E+00	i	2.0E-04	i	4.5E+00	i	2.0E-04	r	0.1	79-06-1	Acrylamide	1.1E-01	ca	3.8E-01	ca	1.5E-03	ca	1.5E-02	ca		
		5.0E-01	i			2.9E-04	i	0.1	79-10-7	Acrylic acid	2.9E+04	nc	1.0E+05	max	1.0E+00	nc	1.8E+04	nc		
5.4E-01	i	1.0E-03	h	2.4E-01	i	5.7E-04	i y		107-13-1	Acrylonitrile	2.1E-01	ca*	4.9E-01	ca*	2.8E-02	ca*	3.9E-02	ca*		
1.0E+00	r			1.0E+00	c		y			**"CAL-Modified PRG"**	5.5E-02	ca	1.2E-01	ca	6.7E-03	ca	1.1E-02	ca		
8.1E-02	h	1.0E-02	i	8.0E-02	r	1.0E-02	r	0.1	15972-60-8	Alachlor	6.0E+00	ca	2.1E+01	ca	8.4E-02	ca	8.4E-01	ca		
		1.5E-01	i			1.5E-01	r	0.1	1596-84-5	Alar	9.2E+03	nc	9.2E+04	nc	5.5E+02	nc	5.5E+03	nc		
		1.0E-03	i			1.0E-03	r	0.1	116-06-3	Aldicarb	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		1.0E-03	i			1.0E-03	r	0.1	1646-88-4	Aldicarb sulfone	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
1.7E+01	i	3.0E-05	i	1.7E+01	i	3.0E-05	r	0.1	309-00-2	Aldrin	2.9E-02	ca*	1.0E-01	ca	3.9E-04	ca	4.0E-03	ca	5.0E-01	2.0E-02
		2.5E-01	i			2.5E-01	r	0.1	74223-64-6	Ally	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
		5.0E-03	i			5.0E-03	r	0.1	107-18-6	Allyl alcohol	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		2.9E-04	r			2.9E-04	i	0.1	107-05-1	**Allyl chloride**	1.7E+01	nc	1.8E+02	nc	1.0E+00	nc	1.0E+01	nc		
		1.0E+00	p			1.4E-03	p		7429-90-5	Aluminum	7.6E+04	nc	1.0E+05	max	5.1E+00	nc	3.6E+04	nc		
		4.0E-04	i						20859-73-8	Aluminum phosphide	3.1E+01	nc	4.1E+02	nc			1.5E+01	nc		
		3.0E-04	i			3.0E-04	r	0.1	67485-29-4	Amdro	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
		9.0E-03	i			9.0E-03	r	0.1	834-12-8	Ametryn	5.5E+02	nc	5.5E+03	nc	3.3E+01	nc	3.3E+02	nc		
		2.0E-04	n			2.0E-04	r	0.1	1321-12-6	**Aminodinitrotoluene**	1.2E+01	nc	1.2E+02	nc	7.3E-01	nc	7.3E+00	nc		
		7.0E-02	h			7.0E-02	r	0.1	591-27-5	m-Aminophenol	4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc		
		2.0E-05	h			2.0E-05	r	0.1	504-24-5	4-Aminopyridine	1.2E+00	nc	1.2E+01	nc	7.3E-02	nc	7.3E-01	nc		
		2.5E-03	i			2.5E-03	r	0.1	33089-61-1	Amitraz	1.5E+02	nc	1.5E+03	nc	9.1E+00	nc	9.1E+01	nc		
						2.9E-02	i		7664-41-7	Ammonia					1.0E+02	nc				
		2.0E-01	i					0.1	7773-06-0	Ammonium sulfamate	1.2E+04	nc	1.0E+05	max			7.3E+03	nc		
5.7E-03	i	7.0E-03	p	5.7E-03	r	2.9E-04	i	0.1	62-53-3	Aniline	8.5E+01	ca**	3.0E+02	ca*	1.0E+00	nc	1.2E+01	ca*		
		4.0E-04	i						7440-36-0	Antimony and compounds	3.1E+01	nc	4.1E+02	nc			1.5E+01	nc	5.0E+00	3.0E-01
		1.3E-02	i			1.3E-02	r	0.1	74115-24-5	Apollo	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
2.5E-02	i	5.0E-02	h	2.5E-02	i	5.0E-02	r	0.1	140-57-8	Aramite	1.9E+01	ca	6.9E+01	ca	2.7E-01	ca	2.7E+00	ca		
1.5E+00	i	3.0E-04	i	1.5E+01	i			0.03	7440-38-2	Arsenic	3.9E-01	ca*	1.6E+00	ca	4.5E-04	ca	4.5E-02	ca	2.9E+01	1.0E+00
9.5E+00	c			1.2E+01	c			0.03		**"CAL-Modified PRG"**	6.2E-02	ca	2.5E-01	ca	5.6E-04	ca	7.1E-03	ca		
						1.4E-05	i		7784-42-1	Arsine (see arsenic for cancer endpoint)					5.2E-02	nc				

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG ca* (where: nc PRG < 100X ca PRG) ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		9.0E-03	i			9.0E-03	r	0.1	76578-14-8	Assure	5.5E+02	nc	5.5E+03	nc	3.3E+01	nc	3.3E+02	nc		
		5.0E-02	i			5.0E-02	r	0.1	3337-71-1	Asulam	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
2.2E-01	h	3.5E-02	i	2.2E-01	r	3.5E-02	r	0.1	1912-24-9	Atrazine	2.2E+00	ca	7.8E+00	ca	3.1E-02	ca	3.0E-01	ca		
		4.0E-04	i			4.0E-04	r	0.1	71751-41-2	Avermectin B1	2.4E+01	nc	2.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
1.1E-01	i			1.1E-01	i			0.1	103-33-3	Azobenzene	4.4E+00	ca	1.6E+01	ca	6.2E-02	ca	6.1E-01	ca		
		7.0E-02	i			1.4E-04	h		7440-39-3	Barium and compounds	5.4E+03	nc	6.7E+04	nc	5.2E-01	nc	2.6E+03	nc	1.6E+03	8.2E+01
		4.0E-03	i			4.0E-03	r	0.1	114-26-1	Baygon	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
		3.0E-02	i			3.0E-02	r	0.1	43121-43-3	Bayleton	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		2.5E-02	i			2.5E-02	r	0.1	68359-37-5	Baythroid	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		3.0E-01	i			3.0E-01	r	0.1	1861-40-1	Benefin	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
		5.0E-02	i			5.0E-02	r	0.1	17804-35-2	Benomyl	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		3.0E-02	i			3.0E-02	r	0.1	25057-89-0	Bentazon	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		1.0E-01	i			1.0E-01	r	0.1	100-52-7	Benzaldehyde	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
5.5E-02	i	4.0E-03	i	2.7E-02	i	8.6E-03	i	y	71-43-2	**Benzene**	6.4E-01	ca*	1.4E+00	ca*	2.5E-01	ca	3.5E-01	ca	3.0E-02	2.0E-03
2.3E+02	i	3.0E-03	i	2.3E+02	i	3.0E-03	r	0.1	92-87-5	Benzidine	2.1E-03	ca	7.5E-03	ca	2.9E-05	ca	2.9E-04	ca		
		4.0E+00	i			4.0E+00	r	0.1	65-85-0	Benzoic acid	1.0E+05	max	1.0E+05	max	1.5E+04	nc	1.5E+05	nc	4.0E+02	2.0E+01
1.3E+01	i			1.3E+01	r			0.1	98-07-7	Benzotrichloride	3.7E-02	ca	1.3E-01	ca	5.2E-04	ca	5.2E-03	ca		
		3.0E-01	h			3.0E-01	r	0.1	100-51-6	Benzyl alcohol	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
1.7E-01	i	2.9E-03	r	1.7E-01	r	2.9E-03	n	y	100-44-7	Benzyl chloride	8.9E-01	ca*	2.2E+00	ca	4.0E-02	ca	6.6E-02	ca		
		2.0E-03	i	8.4E+00	i	5.7E-06	i		7440-41-7	Beryllium and compounds	1.5E+02	nc	1.9E+03	ca**	8.0E-04	ca*	7.3E+01	nc	6.3E+01	3.0E+00
		1.0E-04	i			1.0E-04	r	0.1	141-66-2	Bidrin	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		
		1.5E-02	i			1.5E-02	r	0.1	82657-04-3	Biphenthrin (Talstar)	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc		
		5.0E-02	i			5.0E-02	r	y	92-52-4	**1,1-Biphenyl**	3.0E+03	nc	2.3E+04	nc	1.8E+02	nc	3.0E+02	nc		
1.1E+00	i			1.1E+00	i			y	111-44-4	Bis(2-chloroethyl)ether	2.2E-01	ca	5.8E-01	ca	6.1E-03	ca	1.0E-02	ca	4.0E-04	2.0E-05
7.0E-02	x	4.0E-02	i	3.5E-02	x	4.0E-02	r	y	108-60-1	Bis(2-chloroisopropyl)ether	2.9E+00	ca	7.4E+00	ca	1.9E-01	ca	2.7E-01	ca		
2.2E+02	i			2.2E+02	i			y	542-88-1	Bis(chloromethyl)ether	1.9E-04	ca	4.3E-04	ca	3.1E-05	ca	5.2E-05	ca		
7.0E-02	x	4.0E-02	i	3.5E-02	x	4.0E-02	r	y	108-60-1	Bis(2-chloro-1-methylethyl)ether	2.9E+00	ca	7.4E+00	ca	1.9E-01	ca	2.7E-01	ca		
1.4E-02	i	2.0E-02	i	1.4E-02	r	2.0E-02	r	0.1	117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	3.5E+01	ca*	1.2E+02	ca	4.8E-01	ca	4.8E+00	ca		
		5.0E-02	i			5.0E-02	r	0.1	80-05-7	Bisphenol A	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		2.00E-01	i			5.7E-03	h		7440-42-8	Boron	1.6E+04	nc	1.0E+05	max	2.1E+01	nc	7.3E+03	nc		
						2.0E-04	h		7637-07-2	Boron trifluoride					7.3E-01	nc				
7.0E-01	i	4.0E-03	i	7.0E-01	r	4.0E-03	r	0.1	15541-45-4	**Bromate**	6.9E-01	ca	2.5E+00	ca	9.6E-03	ca	9.6E-02	ca		
		2.0E-02	p			2.9E-03	p	y	108-86-1	Bromobenzene	2.8E+01	nc	9.2E+01	nc	1.0E+01	nc	2.0E+01	nc		
6.2E-02	i	2.0E-02	i	6.2E-02	r	2.0E-02	r	y	75-27-4	Bromodichloromethane	8.2E-01	ca	1.8E+00	ca	1.1E-01	ca	1.8E-01	ca	6.0E-01	3.0E-02
7.9E-03	i	2.0E-02	i	3.9E-03	i	2.0E-02	r	0.1	75-25-2	Bromoform (tribromomethane)	6.2E+01	ca*	2.2E+02	ca*	1.7E+00	ca*	8.5E+00	ca*	8.0E-01	4.0E-02
		1.4E-03	i			1.4E-03	i	y	74-83-9	Bromomethane (Methyl bromide)	3.9E+00	nc	1.3E+01	nc	5.2E+00	nc	8.7E+00	nc	2.0E-01	1.0E-02
		5.0E-03	h			5.0E-03	r	0.1	2104-96-3	Bromophos	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		2.0E-02	i			2.0E-02	r	0.1	1689-84-5	Bromoxynil	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		

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ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils / CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		2.0E-02	i			2.0E-02	r	0.1 / 1689-99-2	Bromoxynil octanoate	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
1.1E-01	r	5.7E-04	r	1.1E-01	i	5.7E-04	i	y / 106-99-0	**1,3-Butadiene**	5.8E-02	ca*	1.2E-01	ca*	6.1E-02	ca*	1.0E-01	ca*		
6.0E-01	r	5.7E-03	r	6.0E-01	c	5.7E-03	c	y / 106-99-0	**"CAL-Modified PRG"**	1.1E-02	ca	2.3E-02	ca	1.1E-02	ca	1.9E-02	ca		
		1.0E-01	i			2.6E-03	n	0.1 / 71-36-3	1-Butanol	6.1E+03	nc	6.1E+04	nc	9.5E+00	nc	3.6E+03	nc	1.7E+01	9.0E-01
		5.0E-02	i			5.0E-02	r	0.1 / 2008-41-5	Butylate	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		4.0E-02	n			4.0E-02	r	y / 104-51-8	n-Butylbenzene	2.4E+02	sat	2.4E+02	sat	1.5E+02	nc	2.4E+02	nc		
		4.0E-02	n			4.0E-02	r	y / 135-9-88	sec-Butylbenzene	2.2E+02	sat	2.2E+02	sat	1.5E+02	nc	2.4E+02	nc		
		4.0E-02	n			4.0E-02	r	y / 98-06-6	tert-Butylbenzene	3.9E+02	sat	3.9E+02	sat	1.5E+02	nc	2.4E+02	nc		
		2.0E-01	i			2.0E-01	r	0.1 / 85-68-7	Butyl benzyl phthalate	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc	9.3E+02	8.1E+02
		1.0E+00	i			1.0E+00	r	0.1 / 85-70-1	Butylphthalyl butylglycolate	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc		
		5.0E-04	i	6.3E+00	i			0.001 / 7440-43-9	Cadmium and compounds	3.7E+01	nc	4.5E+02	nc	1.1E-03	ca	1.8E+01	nc	8.0E+00	4.0E-01
		5.0E-01	i			5.0E-01	r	0.1 / 105-60-2	Caprolactam	3.1E+04	nc	1.0E+05	max	1.8E+03	nc	1.8E+04	nc		
8.6E-03	h	2.0E-03	i	8.6E-03	r	2.0E-03	r	0.1 / 2425-06-1	Captafol	5.7E+01	ca**	2.0E+02	ca**	7.8E-01	ca**	7.8E+00	ca**		
3.5E-03	h	1.3E-01	i	3.5E-03	r	1.3E-01	r	0.1 / 133-06-2	Captan	1.4E+02	ca*	4.9E+02	ca	1.9E+00	ca	1.9E+01	ca		
		1.0E-01	i			1.1E-01	r	0.1 / 63-25-2	Carbaryl	6.1E+03	nc	6.2E+04	nc	4.0E+02	nc	3.6E+03	nc		
2.0E-02	h			2.0E-02	r			0.1 / 86-74-8	Carbazole	2.4E+01	ca	8.6E+01	ca	3.4E-01	ca	3.4E+00	ca	6.0E-01	3.0E-02
		5.0E-03	i			5.0E-03	r	0.1 / 1563-66-2	Carbofuran	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		1.0E-01	i			2.0E-01	i	y / 75-15-0	Carbon disulfide	3.6E+02	nc	7.2E+02	sat	7.3E+02	nc	1.0E+03	nc	3.2E+01	2.0E+00
1.3E-01	i	7.0E-04	i	5.3E-02	i	7.0E-04	r	y / 56-23-5	Carbon tetrachloride	2.5E-01	ca**	5.5E-01	ca*	1.3E-01	ca*	1.7E-01	ca*	7.0E-02	3.0E-03
		1.0E-02	i			1.0E-02	r	0.1 / 55285-14-8	Carbosulfan	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		1.0E-01	i			1.0E-01	r	0.1 / 5234-68-4	Carboxin	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		1.5E-02	i			1.5E-02	r	0.1 / 133-90-4	Chloramben	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc		
4.0E-01	h			4.0E-01	r			0.1 / 118-75-2	Chloranil	1.2E+00	ca	4.3E+00	ca	1.7E-02	ca	1.7E-01	ca		
3.5E-01	i	5.0E-04	i	3.5E-01	i	2.0E-04	i	0.04 / 12789-03-6	Chlordane (technical)	1.6E+00	ca*	6.5E+00	ca*	1.9E-02	ca*	1.9E-01	ca*	1.0E+01	5.0E-01
		2.0E-02	i			2.0E-02	r	0.1 / 90982-32-4	Chlorimuron-ethyl	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		1.0E-01	i			5.7E-05	n	/ 7782-50-5	Chlorine					2.1E-01	nc				
		3.0E-02	i			5.7E-05	i	/ 10049-04-4	Chlorine dioxide					2.1E-01	nc				
		2.0E-03	h			2.0E-03	r	0.1 / 79-11-8	Chloroacetic acid	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		8.6E-06	r			8.6E-06	i	y / 532-27-4	2-Chloroacetophenone	3.3E-02	nc	1.1E-01	nc	3.1E-02	nc	5.2E-02	nc		
		4.0E-03	i			4.0E-03	r	0.1 / 106-47-8	4-Chloroaniline	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc	7.0E-01	3.0E-02
		2.0E-02	i			1.7E-02	n	y / 108-90-7	Chlorobenzene	1.5E+02	nc	5.3E+02	nc	6.2E+01	nc	1.1E+02	nc	1.0E+00	7.0E-02
2.7E-01	h	2.0E-02	i	2.7E-01	h	2.0E-02	r	0.1 / 510-15-6	Chlorobenzilate	1.8E+00	ca	6.4E+00	ca	2.5E-02	ca	2.5E-01	ca		
		2.0E-01	h			2.0E-01	r	0.1 / 74-11-3	p-Chlorobenzoic acid	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
		2.0E-02	h			2.0E-02	r	0.1 / 98-56-6	4-Chlorobenzotrifluoride	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		2.0E-02	h			2.0E-03	h	y / 126-99-8	2-Chloro-1,3-butadiene	3.6E+00	nc	1.2E+01	nc	7.3E+00	nc	1.4E+01	nc		
		4.0E-01	h			4.0E-01	r	y / 109-69-3	1-Chlorobutane	4.8E+02	sat	4.8E+02	sat	1.5E+03	nc	2.4E+03	nc		
		1.4E+01	r			1.4E+01	i	y / 75-68-3	1-Chloro-1,1-difluoroethane (HCFC-142b)	3.4E+02	sat	3.4E+02	sat	5.2E+04	nc	8.7E+04	nc		

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TOXICITY VALUES										CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC	skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		1.4E+01	r			1.4E+01	i	y		75-45-6	Chlorodifluoromethane	3.4E+02	sat	3.4E+02	sat	5.1E+04	nc	8.5E+04	nc		
2.9E-03	n	4.0E-01	n	2.9E-03	r	2.9E+00	i	y		75-00-3	Chloroethane	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca	4.6E+00	ca		
		1.0E-02	i	8.1E-02	i	1.4E-02	n	y		67-66-3	**Chloroform**	2.2E-01	ca	4.7E-01	ca	8.3E-02	ca	1.7E-01	ca	6.0E-01	3.0E-02
3.1E-02	c			1.9E-02	c			y			"CAL-Modified PRG"	9.4E-01	ca	2.0E+00	ca	3.5E-01	ca	5.3E-01	ca		
		2.6E-02	r			2.6E-02	i	y		74-87-3	**Chloromethane (methyl chloride)**	4.7E+01	nc	1.6E+02	nc	9.5E+01	nc	1.6E+02	nc		
5.8E-01	h			5.8E-01	r				0.1	95-69-2	4-Chloro-2-methylaniline	8.4E-01	ca	3.0E+00	ca	1.2E-02	ca	1.2E-01	ca		
4.6E-01	h			4.6E-01	r				0.1	3165-93-3	4-Chloro-2-methylaniline hydrochloride	1.1E+00	ca	3.7E+00	ca	1.5E-02	ca	1.5E-01	ca		
		8.0E-02	i			8.0E-02	r	y		91-58-7	beta-Chloronaphthalene	4.9E+03	nc	2.3E+04	nc	2.9E+02	nc	4.9E+02	nc		
9.7E-03	p	1.0E-03	p	9.7E-03	r	2.0E-05	p	y		88-73-3	o-Chloronitrobenzene	1.4E+00	nc**	4.5E+00	nc**	7.3E-02	nc**	1.5E-01	nc**		
6.7E-03	p	1.0E-03	p	6.7E-03	r	1.7E-04	p	y		100-00-5	p-Chloronitrobenzene	1.0E+01	nc**	3.7E+01	nc**	6.2E-01	nc**	1.2E+00	nc**		
		5.0E-03	i			5.0E-03	r	y		95-57-8	2-Chlorophenol	6.3E+01	nc	2.4E+02	nc	1.8E+01	nc	3.0E+01	nc	4.0E+00	2.0E-01
		2.9E-02	r			2.9E-02	h	y		75-29-6	2-Chloropropane	1.7E+02	nc	5.9E+02	nc	1.0E+02	nc	1.7E+02	nc		
1.1E-02	h	1.5E-02	i	1.1E-02	r	1.5E-02	r		0.1	1897-45-6	Chlorothalonil	4.4E+01	ca*	1.6E+02	ca*	6.1E-01	ca*	6.1E+00	ca*		
		2.0E-02	i			2.0E-02	r	y		95-49-8	o-Chlorotoluene	1.6E+02	nc	5.6E+02	nc	7.3E+01	nc	1.2E+02	nc		
		2.0E-01	i			2.0E-01	r		0.1	101-21-3	Chlorpropham	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
		3.0E-03	i			3.0E-03	r		0.1	2921-88-2	Chlorpyrifos	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
		1.0E-02	h			1.0E-02	r		0.1	5598-13-0	Chlorpyrifos-methyl	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		5.0E-02	i			5.0E-02	r		0.1	64902-72-3	Chlorsulfuron	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		8.0E-04	h			8.0E-04	r		0.1	60238-56-4	Chlorthiophos	4.9E+01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc		
				4.2E+01	i						Total Chromium (1:6 ratio Cr VI:Cr III)+++	2.1E+02	ca	4.5E+02	ca	1.6E-04	ca			3.8E+01	2.0E+00
		1.5E+00	i							16065-83-1	Chromium III	1.0E+05	max	1.0E+05	max			5.5E+04	nc		
		3.0E-03	i	2.9E+02	i	2.2E-06	i			18540-29-9	Chromium VI+++	3.0E+01	ca**	6.4E+01	ca	2.3E-05	ca	1.1E+02	nc	3.8E+01	2.0E+00
		2.0E-02	p	9.8E+00	p	5.7E-06	p			7440-48-4	Cobalt	9.0E+02	ca**	1.9E+03	ca*	6.9E-04	ca*	7.3E+02	nc		
				2.2E+00	i					8007-45-2	Coke Oven Emissions					3.1E-03	ca				
		4.0E-02	h							7440-50-8	Copper and compounds	3.1E+03	nc	4.1E+04	nc			1.5E+03	nc		
1.9E+00	h			1.9E+00	r			y		123-73-9	Crotonaldehyde	5.3E-03	ca	1.1E-02	ca	3.5E-03	ca	5.9E-03	ca		
		1.0E-01	i			1.1E-01	i	y		98-82-8	Cumene (isopropylbenzene)	5.7E+02	nc	2.0E+03	nc	4.0E+02	nc	6.6E+02	nc		
8.4E-01	h	2.0E-03	h	8.4E-01	r	2.0E-03	r		0.1	21725-46-2	Cyanazine	5.8E-01	ca	2.1E+00	ca	8.0E-03	ca	8.0E-02	ca		
		2.0E-02	i						0.1	57-12-5	Cyanide (free)	1.2E+03	nc	1.2E+04	nc			7.3E+02	nc		
		2.0E-02	i			8.6E-04	i	y		74-90-8	Cyanide (hydrogen)	1.1E+01	nc	3.5E+01	nc	3.1E+00	nc	6.2E+00	nc		
		4.0E-02	i			4.0E-02	r	y		460-19-5	Cyanogen	1.3E+02	nc	4.3E+02	nc	1.5E+02	nc	2.4E+02	nc		
		9.0E-02	i			9.0E-02	r	y		506-68-3	Cyanogen bromide	2.9E+02	nc	9.7E+02	nc	3.3E+02	nc	5.5E+02	nc		
		5.0E-02	i			5.0E-02	r	y		506-77-4	Cyanogen chloride	1.6E+02	nc	5.4E+02	nc	1.8E+02	nc	3.0E+02	nc		
		1.7E+00	r			1.7E+00	i	y		110-82-7	**Cyclohexane**	1.4E+02	sat	1.4E+02	sat	6.2E+03	nc	1.0E+04	nc		
		5.0E+00	i			5.0E+00	r		0.1	108-94-1	Cyclohexanone	1.0E+05	max	1.0E+05	max	1.8E+04	nc	1.8E+05	nc		
		2.0E-01	i			2.0E-01	r		0.1	108-91-8	Cyclohexylamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
		5.0E-03	i			5.0E-03	r		0.1	68085-85-8	Cyhalothrin/Karate	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		1.0E-02	i			1.0E-02	r		0.1	52315-07-8	Cypermethrin	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG ca* (where: nc PRG < 100X ca PRG)
ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		7.5E-03	i			7.5E-03	r	0.1	66215-27-8	Cyromazine	4.6E+02	nc	4.6E+03	nc	2.7E+01	nc	2.7E+02	nc		
		1.0E-02	i			1.0E-02	r	0.1	1861-32-1	Dacthal	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		3.0E-02	i			3.0E-02	r	0.1	75-99-0	Dalapon	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		2.5E-02	i			2.5E-02	r	0.1	39515-41-8	Danitol	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
2.4E-01	i			2.4E-01	r			0.03	72-54-8	DDD	2.4E+00	ca	1.0E+01	ca	2.8E-02	ca	2.8E-01	ca	1.6E+01	8.0E-01
3.4E-01	i			3.4E-01	r			0.03	72-55-9	DDE	1.7E+00	ca	7.0E+00	ca	2.0E-02	ca	2.0E-01	ca	5.4E+01	3.0E+00
3.4E-01	i	5.0E-04	i	3.4E-01	i	5.0E-04	r	0.03	50-29-3	DDT	1.7E+00	ca*	7.0E+00	ca*	2.0E-02	ca*	2.0E-01	ca*	3.2E+01	2.0E+00
		1.0E-02	i			1.0E-02	r	0.1	1163-19-5	Decabromodiphenyl ether	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		4.0E-05	i			4.0E-05	r	0.1	8065-48-3	Demeton	2.4E+00	nc	2.5E+01	nc	1.5E-01	nc	1.5E+00	nc		
6.1E-02	h			6.1E-02	r			0.1	2303-16-4	Diallate	8.0E+00	ca	2.8E+01	ca	1.1E-01	ca	1.1E+00	ca		
		9.0E-04	h			9.0E-04	r	0.1	333-41-5	Diazinon	5.5E+01	nc	5.5E+02	nc	3.3E+00	nc	3.3E+01	nc		
		2.0E-03	n			2.0E-03	r	y	132-64-9	**Dibenzofuran**	1.5E+02	nc	1.6E+03	nc	7.3E+00	nc	1.2E+01	nc		
		1.0E-02	i			1.0E-02	r	0.1	106-37-6	1,4-Dibromobenzene	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
8.4E-02	i	2.0E-02	i	8.4E-02	r	2.0E-02	r	y	124-48-1	Dibromochloromethane	1.1E+00	ca	2.6E+00	ca	8.0E-02	ca	1.3E-01	ca	4.0E-01	2.0E-02
1.4E+00	h	5.7E-05	r	2.4E-03	x	5.7E-05	i	y	96-12-8	**1,2-Dibromo-3-chloropropane (DBCP)**	4.6E-01	ca**	2.0E+00	ca**	2.1E-01	nc	4.8E-02	ca**		
7.0E+00	c			7.0E+00	c			y	96-12-8	**"CAL-Modified PRG"**	3.0E-02	ca	7.6E-02	ca	9.6E-04	ca	1.6E-03	ca		
2.0E+00	i	9.0E-03	i	2.0E+00	i	2.6E-03	i	y	106-93-4	**1,2-Dibromoethane (EDB)**	3.2E-02	ca	7.3E-02	ca	3.4E-03	ca	5.6E-03	ca		
		1.0E-01	i			1.0E-01	r	0.1	84-74-2	Dibutyl phthalate	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc	2.3E+03	2.7E+02
		3.0E-02	i			3.0E-02	r	0.1	1918-00-9	Dicamba	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		9.0E-02	i			5.7E-02	h	y	95-50-1	**1,2-Dichlorobenzene**	6.0E+02	sat	6.0E+02	sat	2.1E+02	nc	3.7E+02	nc	1.7E+01	9.0E-01
		3.0E-02	n			3.0E-02	r	y	541-73-1	**1,3-Dichlorobenzene**	5.3E+02	nc	6.0E+02	sat	1.1E+02	nc	1.8E+02	nc		
2.4E-02	h	3.0E-02	n	2.2E-02	n	2.3E-01	i	y	106-46-7	1,4-Dichlorobenzene	3.4E+00	ca	7.9E+00	ca	3.1E-01	ca	5.0E-01	ca	2.0E+00	1.0E-01
4.5E-01	i			4.5E-01	r			0.1	91-94-1	3,3-Dichlorobenzidine	1.1E+00	ca	3.8E+00	ca	1.5E-02	ca	1.5E-01	ca	7.0E-03	3.0E-04
		3.0E-02	n			3.0E-02	r	0.1	90-98-2	4,4'-Dichlorobenzophenone	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
9.3E+00	r			9.3E+00	h			y	764-41-0	1,4-Dichloro-2-butene	7.9E-03	ca	1.8E-02	ca	7.2E-04	ca	1.2E-03	ca		
		2.0E-01	i			5.7E-02	h	y	75-71-8	Dichlorodifluoromethane	9.4E+01	nc	3.1E+02	nc	2.1E+02	nc	3.9E+02	nc		
		1.0E-01	h			1.4E-01	h	y	75-34-3	1,1-Dichloroethane	5.1E+02	nc	1.7E+03	nc	5.2E+02	nc	8.1E+02	nc	2.3E+01	1.0E+00
5.7E-03	c			5.7E-03	c			y		"CAL-Modified PRG"	2.8E+00	ca	6.0E+00	ca	1.2E+00	ca	2.0E+00	ca		
9.1E-02	i	2.0E-02	n	9.1E-02	i	1.4E-03	n	y	107-06-2	1,2-Dichloroethane (EDC)	2.8E-01	ca*	6.0E-01	ca*	7.4E-02	ca*	1.2E-01	ca*	2.0E-02	1.0E-03
		5.0E-02	i			5.7E-02	i	y	75-35-4	1,1-Dichloroethylene	1.2E+02	nc	4.1E+02	nc	2.1E+02	nc	3.4E+02	nc	6.0E-02	3.0E-03
		1.0E-02	p			1.0E-02	r	y	156-59-2	1,2-Dichloroethylene (cis)	4.3E+01	nc	1.5E+02	nc	3.7E+01	nc	6.1E+01	nc	4.0E-01	2.0E-02
		2.0E-02	i			2.0E-02	r	y	156-60-5	1,2-Dichloroethylene (trans)	6.9E+01	nc	2.3E+02	nc	7.3E+01	nc	1.2E+02	nc	7.0E-01	3.0E-02
		3.0E-03	i			3.0E-03	r	0.1	120-83-2	2,4-Dichlorophenol	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc	1.0E+00	5.0E-02
		8.0E-03	i			8.0E-03	r	0.1	94-82-6	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc	2.9E+02	nc		
		1.0E-02	i			1.0E-02	r	0.05	94-75-7	2,4-Dichlorophenoxyacetic Acid (2,4-D)	6.9E+02	nc	7.7E+03	nc	3.7E+01	nc	3.6E+02	nc		
6.8E-02	h	1.1E-03	r	6.8E-02	r	1.1E-03	i	y	78-87-5	1,2-Dichloropropane	3.4E-01	ca*	7.4E-01	ca*	9.9E-02	ca*	1.6E-01	ca*	3.0E-02	1.0E-03
		2.0E-02	p			2.0E-02	r	y	142-28-9	**1,3-Dichloropropane**	1.0E+02	nc	3.6E+02	nc	7.3E+01	nc	1.2E+02	nc		
1.0E-01	i	3.0E-02	i	1.4E-02	i	5.7E-03	i	y	542-75-6	1,3-Dichloropropene	7.8E-01	ca	1.8E+00	ca	4.8E-01	ca	4.0E-01	ca	4.0E-03	2.0E-04

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		3.0E-03	i			3.0E-03	r	0.1	616-23-9	2,3-Dichloropropanol	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
2.9E-01	i	5.0E-04	i	2.9E-01	r	1.4E-04	i	0.1	62-73-7	Dichlorvos	1.7E+00	ca*	5.9E+00	ca*	2.3E-02	ca*	2.3E-01	ca*		
4.4E-01	x			4.4E-01	r			0.1	115-32-2	Dicofol	1.1E+00	ca	3.9E+00	ca	1.5E-02	ca	1.5E-01	ca		
		3.0E-02	h			5.7E-05	x y		77-73-6	Dicyclopentadiene	5.4E-01	nc	1.8E+00	nc	2.1E-01	nc	4.2E-01	nc		
1.6E+01	i	5.0E-05	i	1.6E+01	i	5.0E-05	r	0.1	60-57-1	Dieldrin	3.0E-02	ca	1.1E-01	ca	4.2E-04	ca	4.2E-03	ca	4.0E-03	2.0E-04
		1.0E-02	p			5.7E-03	p	0.1	112-34-5	Diethylene glycol, monobutyl ether	6.1E+02	nc	6.2E+03	nc	2.1E+01	nc	3.6E+02	nc		
		6.0E-02	p			8.6E-04	p	0.1	111-90-0	Diethylene glycol, monoethyl ether	3.7E+03	nc	3.7E+04	nc	3.1E+00	nc	2.2E+03	nc		
		4.0E-04	p			4.0E-04	r	0.1	617-84-5	Diethylformamide	2.4E+01	nc	2.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
1.2E-03	i	6.0E-01	i	1.2E-03	r	6.0E-01	r	0.1	103-23-1	Di(2-ethylhexyl)adipate	4.1E+02	ca	1.4E+03	ca	5.6E+00	ca	5.6E+01	ca		
		8.0E-01	i			8.0E-01	r	0.1	84-66-2	Diethyl phthalate	4.9E+04	nc	1.0E+05	max	2.9E+03	nc	2.9E+04	nc		
4.7E+03	h			4.7E+03	r			0.1	56-53-1	Diethylstilbestrol	1.0E-04	ca	3.7E-04	ca	1.4E-06	ca	1.4E-05	ca		
		8.0E-02	i			8.0E-02	r	0.1	43222-48-6	Difenzoquat (Avenge)	4.9E+03	nc	4.9E+04	nc	2.9E+02	nc	2.9E+03	nc		
		2.0E-02	i			2.0E-02	r	0.1	35367-38-5	Diflubenzuron	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		1.1E+01	r			1.1E+01	i y		75-37-6	1,1-Difluoroethane					4.2E+04	nc	6.9E+04	nc		
		2.0E-02	n			2.0E-02	r	0.1	28553-12-0	Diisononyl phthalate	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
						1.1E-01	p		108-20-3	**Diisopropyl ether**					4.0E+02	nc				
		8.0E-02	i			8.0E-02	r	0.1	1445-75-6	Diisopropyl methylphosphonate	4.9E+03	nc	4.9E+04	nc	2.9E+02	nc	2.9E+03	nc		
		2.0E-02	i			2.0E-02	r	0.1	55290-64-7	Dimethipin	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		2.0E-04	i			2.0E-04	r	0.1	60-51-5	Dimethoate	1.2E+01	nc	1.2E+02	nc	7.3E-01	nc	7.3E+00	nc		
1.4E-02	h			1.4E-02	r			0.1	119-90-4	3,3'-Dimethoxybenzidine	3.5E+01	ca	1.2E+02	ca	4.8E-01	ca	4.8E+00	ca		
		5.7E-06	r			5.7E-06	x y		124-40-3	Dimethylamine	6.7E-02	nc	2.5E-01	nc	2.1E-02	nc	3.5E-02	nc		
		2.0E-03	i			2.0E-03	r	0.1	121-69-7	N-N-Dimethylaniline	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
7.5E-01	h			7.5E-01	r			0.1	95-68-1	2,4-Dimethylaniline	6.5E-01	ca	2.3E+00	ca	9.0E-03	ca	9.0E-02	ca		
5.8E-01	h			5.8E-01	r			0.1	21436-96-4	2,4-Dimethylaniline hydrochloride	8.4E-01	ca	3.0E+00	ca	1.2E-02	ca	1.2E-01	ca		
2.3E+00	p			2.3E+00	r			0.1	119-93-7	**3,3'-Dimethylbenzidine**	2.1E-01	ca	7.5E-01	ca	2.9E-03	ca	2.9E-02	ca		
2.6E+00	x			3.5E+00	x			0.1	57-14-7	1,1-Dimethylhydrazine	1.9E-01	ca	6.6E-01	ca	1.9E-03	ca	2.6E-02	ca		
3.7E+01	x			3.7E+01	x			0.1	540-73-8	1,2-Dimethylhydrazine	1.3E-02	ca	4.7E-02	ca	1.8E-04	ca	1.8E-03	ca		
		1.0E-01	h			8.6E-03	i	0.1	68-12-2	N,N-Dimethylformamide	6.1E+03	nc	6.2E+04	nc	3.1E+01	nc	3.6E+03	nc		
		1.0E-03	n			1.0E-03	r	0.1	122-09-8	Dimethylphenethylamine	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		2.0E-02	i			2.0E-02	r	0.1	105-67-9	2,4-Dimethylphenol	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc	9.0E+00	4.0E-01
		6.0E-04	i			6.0E-04	r	0.1	576-26-1	2,6-Dimethylphenol	3.7E+01	nc	3.7E+02	nc	2.2E+00	nc	2.2E+01	nc		
		1.0E-03	i			1.0E-03	r	0.1	95-65-8	3,4-Dimethylphenol	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		1.0E+01	h			1.0E+01	r	0.1	131-11-3	Dimethyl phthalate	1.0E+05	max	1.0E+05	max	3.7E+04	nc	3.6E+05	nc		
		1.0E-01	i			1.0E-01	r	0.1	120-61-6	Dimethyl terephthalate	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		1.0E-04	p			1.0E-04	r	0.1	534-52-1	**4,6-Dinitro-o-cresol**	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		
		2.0E-03	i			2.0E-03	r	0.1	131-89-5	4,6-Dinitro-o-cyclohexyl phenol	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		1.0E-04	p			1.0E-04	r	0.1	528-29-0	1,2-Dinitrobenzene	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		
		1.0E-04	i			1.0E-04	r	0.1	99-65-0	1,3-Dinitrobenzene	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils / CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		1.0E-04	p			1.0E-04	r	0.1 100-25-4	1,4-Dinitrobenzene	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		
		2.0E-03	i			2.0E-03	r	0.1 51-28-5	2,4-Dinitrophenol	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc	3.0E-01	1.0E-02
6.8E-01	i			6.8E-01	r			0.1 25321-14-6	Dinitrotoluene mixture	7.2E-01	ca	2.5E+00	ca	9.9E-03	ca	9.9E-02	ca	8.0E-04	4.0E-05
		2.0E-03	i			2.0E-03	r	0.1 121-14-2	2,4-Dinitrotoluene (also see Dinitrotoluene mixture)	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc	8.0E-04	4.0E-05
		1.0E-03	h			1.0E-03	r	0.1 606-20-2	2,6-Dinitrotoluene (also see Dinitrotoluene mixture)	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc	7.0E-04	3.0E-05
		1.0E-03	i			1.0E-03	r	0.1 88-85-7	Dinoseb	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		4.0E-02	p			4.0E-02	r	0.1 117-84-0	di-n-Octyl phthalate	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.5E+03	nc	1.0E+04	1.0E+04
1.1E-02	i			1.1E-02	r			0.1 123-91-1	1,4-Dioxane	4.4E+01	ca	1.6E+02	ca	6.1E-01	ca	6.1E+00	ca		
1.5E+05	h			1.5E+05	h			0.03 1746-01-6	Dioxin (2,3,7,8-TCDD)+++	3.9E-06	ca	1.6E-05	ca	4.5E-08	ca	4.5E-07	ca		
		3.0E-02	i			3.0E-02	r	0.1 957-51-7	Diphenamid	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		2.5E-02	i			2.5E-02	r	0.1 122-39-4	Diphenylamine	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		3.0E-04	p			3.0E-04	r	0.1 74-31-7	N,N-Diphenyl-1,4 benzenediamine (DPPD)	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
8.0E-01	i			8.0E-01	i			0.1 122-66-7	1,2-Diphenylhydrazine	6.1E-01	ca	2.2E+00	ca	8.4E-03	ca	8.4E-02	ca		
		3.0E-03	p			3.0E-03	r	0.1 127-63-9	Diphenyl sulfone	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
		2.2E-03	i			2.2E-03	r	0.1 85-00-7	Diquat	1.3E+02	nc	1.4E+03	nc	8.0E+00	nc	8.0E+01	nc		
8.6E+00	h			8.6E+00	r			0.1 1937-37-7	Direct black 38	5.7E-02	ca	2.0E-01	ca	7.8E-04	ca	7.8E-03	ca		
8.1E+00	h			8.1E+00	r			0.1 2602-46-2	Direct blue 6	6.0E-02	ca	2.1E-01	ca	8.3E-04	ca	8.3E-03	ca		
9.3E+00	h			9.3E+00	r			0.1 16071-86-6	Direct brown 95	5.2E-02	ca	1.9E-01	ca	7.2E-04	ca	7.2E-03	ca		
		4.0E-05	i			4.0E-05	r	0.1 298-04-4	Disulfoton	2.4E+00	nc	2.5E+01	nc	1.5E-01	nc	1.5E+00	nc		
		1.0E-02	i			1.0E-02	r	0.1 505-29-3	1,4-Dithiane	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		2.0E-03	i			2.0E-03	r	0.1 330-54-1	Diuron	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		4.0E-03	i			4.0E-03	r	0.1 2439-10-3	Dodine	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
		1.0E-01	n					7429-91-6	Dysprosium	7.8E+03	nc	1.0E+05	max			3.6E+03	nc		
		6.0E-03	i			6.0E-03	r	0.1 115-29-7	Endosulfan	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc	1.8E+01	9.0E-01
		2.0E-02	i			2.0E-02	r	0.1 145-73-3	Endothall	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		3.0E-04	i			3.0E-04	r	0.1 72-20-8	Endrin	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc	1.0E+00	5.0E-02
9.9E-03	i	2.0E-03	h	4.2E-03	h	2.9E-04	i	y	106-89-8	Epichlorohydrin	7.6E+00	nc	2.6E+01	nc	1.0E+00	nc	2.0E+00	nc		
8.00E-02	r			8.00E-02	c			y		**"CAL-Modified PRG"**	1.3E+00	nc	2.9E+00	nc	8.4E-02	nc	1.4E-01	nc		
		5.7E-03	r			5.7E-03	i	0.1	106-88-7	1,2-Epoxybutane	3.5E+02	nc	3.5E+03	nc	2.1E+01	nc	2.1E+02	nc		
		2.5E-02	i			2.5E-02	r	0.1	759-94-4	EPTC (S-Ethyl dipropylthiocarbamate)	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		5.0E-03	i			5.0E-03	r	0.1	16672-87-0	Ethephon (2-chloroethyl phosphonic acid)	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		5.0E-04	i			5.0E-04	r	0.1	563-12-2	Ethion	3.1E+01	nc	3.1E+02	nc	1.8E+00	nc	1.8E+01	nc		
		4.0E-01	h			5.7E-02	i	0.1	110-80-5	2-Ethoxyethanol	2.4E+04	nc	1.0E+05	max	2.1E+02	nc	1.5E+04	nc		
		3.0E-01	h			3.0E-01	r	0.1	111-15-9	2-Ethoxyethanol acetate	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
		9.0E-01	i			9.0E-01	r	y	141-78-6	Ethyl acetate	1.9E+04	nc	3.7E+04	sat	3.3E+03	nc	5.5E+03	nc		
4.8E-02	h			4.8E-02	r			y	140-88-5	Ethyl acrylate	2.1E-01	ca	4.5E-01	ca	1.4E-01	ca	2.3E-01	ca		
		1.0E-01	i			2.9E-01	i	y	100-41-4	**Ethylbenzene**	4.0E+02	sat	4.0E+02	sat	1.1E+03	nc	1.3E+03	nc	1.3E+01	7.0E-01
2.9E-03	n	4.0E-01	n	2.9E-03	r	2.9E+00	i	y	75-00-3	Ethyl chloride	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca	4.6E+00	ca		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. / soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		3.0E-01	h			3.0E-01	r	0.1	109-78-4	Ethylene cyanohydrin	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
		9.0E-02	p			9.0E-02	r	0.1	107-15-3	**Ethylene diamine**	5.5E+03	nc	5.5E+04	nc	3.3E+02	nc	3.3E+03	nc		
		2.0E+00	i			2.0E+00	r	0.1	107-21-1	Ethylene glycol	1.0E+05	max	1.0E+05	max	7.3E+03	nc	7.3E+04	nc		
		5.0E-01	i			3.7E+00	i	0.1	111-76-2	Ethylene glycol, monobutyl ether	3.1E+04	nc	1.0E+05	max	1.4E+04	nc	1.8E+04	nc		
1.0E+00	h			3.5E-01	h			y	75-21-8	Ethylene oxide	1.4E-01	ca	3.4E-01	ca	1.9E-02	ca	2.4E-02	ca		
1.1E-01	h	8.0E-05	i	1.1E-01	r	8.0E-05	r	0.1	96-45-7	Ethylene thiourea (ETU)	4.4E+00	ca**	1.6E+01	ca**	6.1E-02	ca**	6.1E-01	ca**		
		2.0E-01	i			2.0E-01	r	y	60-29-7	Ethyl ether	1.8E+03	sat	1.8E+03	sat	7.3E+02	nc	1.2E+03	nc		
		9.0E-02	h			9.0E-02	r	y	97-63-2	Ethyl methacrylate	1.4E+02	sat	1.4E+02	sat	3.3E+02	nc	5.5E+02	nc		
		1.0E-05	i			1.0E-05	r	0.1	2104-64-5	Ethyl p-nitrophenyl phenylphosphorothioate	6.1E-01	nc	6.2E+00	nc	3.7E-02	nc	3.6E-01	nc		
		3.0E+00	i			3.0E+00	r	0.1	84-72-0	Ethylphthalyl ethyl glycolate	1.0E+05	max	1.0E+05	max	1.1E+04	nc	1.1E+05	nc		
		8.0E-03	i			8.0E-03	r	0.1	101200-48-0	Express	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc	2.9E+02	nc		
		2.5E-04	i			2.5E-04	r	0.1	22224-92-6	Fenamiphos	1.5E+01	nc	1.5E+02	nc	9.1E-01	nc	9.1E+00	nc		
		1.3E-02	i			1.3E-02	r	0.1	2164-17-2	Fluometuron	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		6.0E-02	i					0.1	16984-48-8	Flourine (soluble flouride)	3.7E+03	nc	3.7E+04	nc			2.2E+03	nc		
		8.0E-02	i			8.0E-02	r	0.1	59756-60-4	Fluoridone	4.9E+03	nc	4.9E+04	nc	2.9E+02	nc	2.9E+03	nc		
		2.0E-02	i			2.0E-02	r	0.1	56425-91-3	Flurprimidol	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		6.0E-02	i			6.0E-02	r	0.1	66332-96-5	Flutolanil	3.7E+03	nc	3.7E+04	nc	2.2E+02	nc	2.2E+03	nc		
		1.0E-02	i			1.0E-02	r	0.1	69409-94-5	Fluvalinate	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
3.5E-03	i	1.0E-01	i	3.5E-03	r	1.0E-01	r	0.1	133-07-3	Folpet	1.4E+02	ca*	4.9E+02	ca	1.9E+00	ca	1.9E+01	ca		
1.9E-01	i			1.9E-01	r			0.1	72178-02-0	Fomesafen	2.6E+00	ca	9.1E+00	ca	3.5E-02	ca	3.5E-01	ca		
		2.0E-03	i			2.0E-03	r	0.1	944-22-9	Fonofos	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		1.5E-01	i	4.6E-02	i			0.1	50-00-0	Formaldehyde	9.2E+03	nc	1.0E+05	nc	1.5E-01	ca	5.5E+03	nc		
		2.0E+00	h			8.6E-04	p	0.1	64-18-6	**Formic Acid**	1.0E+05	max	1.0E+05	max	3.1E+00	nc	7.3E+04	nc		
		3.0E+00	i			3.0E+00	r	0.1	39148-24-8	Fosetyl-al	1.0E+05	max	1.0E+05	max	1.1E+04	nc	1.1E+05	nc		
		3.0E+01	i			8.6E+00	h	y	76-13-1	Freon 113	5.6E+03	sat	5.6E+03	sat	3.1E+04	nc	5.9E+04	nc		
		1.0E-03	i			1.0E-03	r	y	110-00-9	Furan	2.5E+00	nc	8.5E+00	nc	3.7E+00	nc	6.1E+00	nc		
3.8E+00	h			3.8E+00	r			0.1	67-45-8	Furazolidone	1.3E-01	ca	4.5E-01	ca	1.8E-03	ca	1.8E-02	ca		
		3.0E-03	i			1.4E-02	h	0.1	98-01-1	Furfural	1.8E+02	nc	1.8E+03	nc	5.2E+01	nc	1.1E+02	nc		
5.0E+01	h			5.0E+01	r			0.1	531-82-8	Furium	9.7E-03	ca	3.4E-02	ca	1.3E-04	ca	1.3E-03	ca		
3.0E-02	i			3.0E-02	r			0.1	60568-05-0	Furmecyclox	1.6E+01	ca	5.7E+01	ca	2.2E-01	ca	2.2E+00	ca		
		4.0E-04	i			4.0E-04	r	0.1	77182-82-2	Glufosinate-ammonium	2.4E+01	nc	2.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
		4.0E-04	i			2.9E-04	h	0.1	765-34-4	Glycidaldehyde	2.4E+01	nc	2.5E+02	nc	1.0E+00	nc	1.5E+01	nc		
		1.0E-01	i			1.0E-01	r	0.1	1071-83-6	Glyphosate	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		5.0E-05	i			5.0E-05	r	0.1	69806-40-2	Haloxyfop-methyl	3.1E+00	nc	3.1E+01	nc	1.8E-01	nc	1.8E+00	nc		
		1.3E-02	i			1.3E-02	r	0.1	79277-27-3	Harmony	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
4.5E+00	i	5.0E-04	i	4.6E+00	i	5.0E-04	r	0.1	76-44-8	Heptachlor	1.1E-01	ca	3.8E-01	ca	1.5E-03	ca	1.5E-02	ca	2.3E+01	1.0E+00
9.1E+00	i	1.3E-05	i	9.1E+00	i	1.3E-05	r	0.1	1024-57-3	Heptachlor epoxide	5.3E-02	ca*	1.9E-01	ca*	7.4E-04	ca*	7.4E-03	ca*	7.0E-01	3.0E-02
		2.0E-03	i			2.0E-03	r	0.1	87-82-1	Hexabromobenzene	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
1.6E+00	i	8.0E-04	i	1.6E+00	i	8.0E-04	r	0.1	118-74-1	Hexachlorobenzene	3.0E-01	ca	1.1E+00	ca	4.2E-03	ca	4.2E-02	ca	2.0E+00	1.0E-01
7.8E-02	i	3.0E-04	n	7.8E-02	i	3.0E-04	r	0.1	87-68-3	Hexachlorobutadiene	6.2E+00	ca**	2.2E+01	ca**	8.6E-02	ca*	8.6E-01	ca*	2.0E+00	1.0E-01
6.3E+00	i	5.0E-04	n	6.3E+00	i	5.0E-04	r	0.04	319-84-6	HCH (alpha)	9.0E-02	ca	3.6E-01	ca	1.1E-03	ca	1.1E-02	ca	5.0E-04	3.0E-05
1.8E+00	i	2.0E-04	n	1.8E+00	i	2.0E-04	r	0.04	319-85-7	HCH (beta)	3.2E-01	ca	1.3E+00	ca	3.7E-03	ca	3.7E-02	ca	3.0E-03	1.0E-04
1.3E+00	h	3.0E-04	i	1.3E+00	r	3.0E-04	r	0.04	58-89-9	HCH (gamma) Lindane	4.4E-01	ca*	1.7E+00	ca	5.2E-03	ca	5.2E-02	ca	9.0E-03	5.0E-04
1.8E+00	i			1.8E+00	i			0.04	608-73-1	HCH-technical	3.2E-01	ca	1.3E+00	ca	3.8E-03	ca	3.7E-02	ca	3.0E-03	1.0E-04
		6.0E-03	i			5.7E-05	i	0.1	77-47-4	Hexachlorocyclopentadiene	3.7E+02	nc	3.7E+03	nc	2.1E-01	nc	2.2E+02	nc	4.0E+02	2.0E+01
1.4E-02	i	1.0E-03	i	1.4E-02	i	1.0E-03	r	0.1	67-72-1	Hexachloroethane	3.5E+01	ca**	1.2E+02	ca**	4.8E-01	ca**	4.8E+00	ca**	5.0E-01	2.0E-02
		3.0E-04	i			3.0E-04	r	0.1	70-30-4	Hexachlorophene	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
1.1E-01	i	3.0E-03	i	1.1E-01	r	3.0E-03	r	0.1	121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine	4.4E+00	ca*	1.6E+01	ca	6.1E-02	ca	6.1E-01	ca		
		2.9E-06	r			2.9E-06	i	0.1	822-06-0	1,6-Hexamethylene diisocyanate	1.7E-01	nc	1.8E+00	nc	1.0E-02	nc	1.0E-01	nc		
		1.1E+01	p			5.7E-02	i	y	110-54-3	**n-Hexane**	1.1E+02	sat	1.1E+02	sat	2.1E+02	nc	4.2E+02	nc		
		3.3E-02	i			3.3E-02	r	0.1	51235-04-2	Hexazinone	2.0E+03	nc	2.0E+04	nc	1.2E+02	nc	1.2E+03	nc		
		5.0E-02	i			5.0E-02	r	0.1	2691-41-0	HMX	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
3.0E+00	i			1.7E+01	i			0.1	302-01-2	Hydrazine, hydrazine sulfate	1.6E-01	ca	5.7E-01	ca	3.9E-04	ca	2.2E-02	ca		
3.0E+00	n			1.7E+01	n			0.1	60-34-4	Hydrazine, monomethyl	1.6E-01	ca	5.7E-01	ca	4.0E-04	ca	2.2E-02	ca		
3.0E+00	n			1.7E+01	n			0.1	57-14-7	Hydrazine, dimethyl	1.6E-01	ca	5.7E-01	ca	4.0E-04	ca	2.2E-02	ca		
						5.7E-03	i		7647-01-0	Hydrogen chloride					2.1E+01	nc				
		2.0E-02	i			8.6E-04	i	y	74-90-8	Hydrogen cyanide	1.1E+01	nc	3.5E+01	nc	3.1E+00	nc	6.2E+00	nc		
		3.0E-03	i			2.9E-04	i		7783-06-4	Hydrogen sulfide					1.0E+00	nc	1.1E+02	nc		
5.6E-02	p	4.0E-02	p	5.6E-02	r	4.0E-02	r	0.1	123-31-9	**p-Hydroquinone**	8.7E+00	ca	3.1E+01	ca	1.2E-01	ca	1.2E+00	ca		
		1.3E-02	i			1.3E-02	r	0.1	35554-44-0	Imazalil	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		2.5E-01	i			2.5E-01	r	0.1	81335-37-7	Imazaquin	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
		4.0E-02	i			4.0E-02	r	0.1	36734-19-7	Iprodione	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
		3.0E-01	n						7439-89-6	Iron	2.3E+04	nc	1.0E+05	max			1.1E+04	nc		
		3.0E-01	i			3.0E-01	r	y	78-83-1	Isobutanol	1.3E+04	nc	4.0E+04	sat	1.1E+03	nc	1.8E+03	nc		
9.5E-04	i	2.0E-01	i	9.5E-04	r	2.0E-01	r	0.1	78-59-1	Isophorone	5.1E+02	ca*	5.1E+02	ca*	7.1E+00	ca	7.1E+01	ca	5.0E-01	3.0E-02
		1.5E-02	i			1.5E-02	r	0.1	33820-53-0	Isopropalin	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc		
		1.0E-01	i			1.1E-01	r	0.1	1832-54-8	Isopropyl methyl phosphonic acid	6.1E+03	nc	6.2E+04	nc	4.0E+02	nc	3.6E+03	nc		
		5.0E-02	i			5.0E-02	r	0.1	82558-50-7	Isoxaben	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
8.0E+00	p	2.0E-04	p	8.0E+00	r	2.0E-04	r	0.1	143-50-0	Kepone	6.1E-02	ca	2.2E-01	ca	8.4E-04	ca	8.4E-03	ca		
		2.0E-03	i			2.0E-03	r	0.1	77501-63-4	Lactofen	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
www.epa.gov/superfund/programs/lead/ieubk.htm									7439-92-1	**Lead+++**	4.0E+02	nc	8.0E+02	nc						
www.dtsc.ca.gov/ScienceTechnology/ledspred.html										"CAL-Modified PRG"+++	1.5E+02	nc								
		1.0E-07	i					0.1	78-00-2	Lead (tetraethyl)	6.1E-03	nc	6.2E-02	nc			3.6E-03	nc		
		2.0E-03	i			2.0E-03	r	0.1	330-55-2	Linuron	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		2.0E-02	x						7439-93-2	Lithium	1.6E+03	nc	2.0E+04	nc			7.3E+02	nc		
		2.0E-01	i			2.0E-01	r	0.1	83055-99-6	Londax	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		

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ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		2.0E-02	i			2.0E-02	r	0.1	121-75-5	Malathion	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		1.0E-01	i			1.0E-01	r	0.1	108-31-6	Maleic anhydride	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		5.0E-01	i			5.0E-01	r y		123-33-1	Maleic hydrazide	1.7E+03	nc	2.4E+03	sat	1.8E+03	nc	3.0E+03	nc		
		1.0E-04	p			1.0E-04	r	0.1	109-77-3	**Malononitrile**	6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc		
		3.0E-02	h			3.0E-02	r	0.1	8018-01-7	Mancozeb	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
6.0E-02	o	5.0E-03	i	6.0E-02	r	5.0E-03	r	0.1	12427-38-2	Maneb	8.1E+00	ca*	2.9E+01	ca	1.1E-01	ca	1.1E+00	ca		
		2.4E-02	i			1.4E-05	i		7439-96-5	Manganese and compounds+++	1.8E+03	nc	1.9E+04	nc	5.1E-02	nc	8.8E+02	nc		
		9.0E-05	h			9.0E-05	r	0.1	950-10-7	Mephosfolan	5.5E+00	nc	5.5E+01	nc	3.3E-01	nc	3.3E+00	nc		
		3.0E-02	i			3.0E-02	r	0.1	24307-26-4	Mepiquat chloride	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
2.9E-02	n	1.0E-01	n	2.9E-02	r	1.0E-01	r	0.1	149-30-4	2-Mercaptobenzothiazole	1.7E+01	ca	5.9E+01	ca	2.3E-01	ca	2.3E+00	ca		
		3.0E-04	i						7487-94-7	Mercury and compounds	2.3E+01	nc	3.1E+02	nc			1.1E+01	nc		
						8.6E-05	i		7439-97-6	Mercury (elemental)					3.1E-01	nc				
		1.0E-04	i					0.1	22967-92-6	Mercury (methyl)	6.1E+00	nc	6.2E+01	nc			3.6E+00	nc		
		3.0E-05	i			3.0E-05	r	0.1	150-50-5	Merphos	1.8E+00	nc	1.8E+01	nc	1.1E-01	nc	1.1E+00	nc		
		3.0E-05	i			3.0E-05	r	0.1	78-48-8	Merphos oxide	1.8E+00	nc	1.8E+01	nc	1.1E-01	nc	1.1E+00	nc		
		6.0E-02	i			6.0E-02	r	0.1	57837-19-1	Metalaxyl	3.7E+03	nc	3.7E+04	nc	2.2E+02	nc	2.2E+03	nc		
		1.0E-04	i			2.0E-04	h y		126-98-7	Methacrylonitrile	2.1E+00	nc	8.4E+00	nc	7.3E-01	nc	1.0E+00	nc		
		5.0E-05	i			5.0E-05	r	0.1	10265-92-6	Methamidophos	3.1E+00	nc	3.1E+01	nc	1.8E-01	nc	1.8E+00	nc		
		5.0E-01	i			5.0E-01	r	0.1	67-56-1	Methanol	3.1E+04	nc	1.0E+05	max	1.8E+03	nc	1.8E+04	nc		
		1.0E-03	i			1.0E-03	r	0.1	950-37-8	Methidathion	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		2.5E-02	i			2.5E-02	r y		16752-77-5	Methomyl	4.4E+01	nc	1.5E+02	nc	9.1E+01	nc	1.5E+02	nc		
		5.0E-03	i			5.0E-03	r	0.1	72-43-5	Methoxychlor	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc	1.6E+02	8.0E+00
		1.0E-03	h			5.7E-03	i	0.1	109-86-4	2-Methoxyethanol	6.1E+01	nc	6.2E+02	nc	2.1E+01	nc	3.6E+01	nc		
		2.0E-03	h			2.0E-03	r	0.1	110-49-6	2-Methoxyethanol acetate	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
4.6E-02	h			4.6E-02	r			0.1	99-59-2	2-Methoxy-5-nitroaniline	1.1E+01	ca	3.7E+01	ca	1.5E-01	ca	1.5E+00	ca		
		1.0E+00	h			1.0E+00	r y		79-20-9	Methyl acetate	2.2E+04	nc	9.2E+04	nc	3.7E+03	nc	6.1E+03	nc		
		3.0E-02	h			3.0E-02	r y		96-33-3	Methyl acrylate	7.0E+01	nc	2.3E+02	nc	1.1E+02	nc	1.8E+02	nc		
2.4E-01	h			2.4E-01	r			0.1	95-53-4	2-Methylaniline (o-toluidine)	2.0E+00	ca	7.2E+00	ca	2.8E-02	ca	2.8E-01	ca		
1.8E-01	h			1.8E-01	r			0.1	636-21-5	2-Methylaniline hydrochloride	2.7E+00	ca	9.6E+00	ca	3.7E-02	ca	3.7E-01	ca		
		5.0E-04	i			5.0E-04	r	0.1	94-74-6	2-Methyl-4-chlorophenoxyacetic acid	3.1E+01	nc	3.1E+02	nc	1.8E+00	nc	1.8E+01	nc		
		1.0E-02	i			1.0E-02	r	0.1	94-81-5	4-(2-Methyl-4-chlorophenoxy) butyric acid	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		1.0E-03	i			1.0E-03	r	0.1	93-65-2	2-(2-Methyl-4-chlorophenoxy) propionic acid	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		1.0E-03	i			1.0E-03	r	0.1	16484-77-8	2-(2-Methyl-1,4-chlorophenoxy) propionic acid	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		8.6E-01	r			8.6E-01	h y		108-87-2	Methylcyclohexane	2.6E+03	nc	8.7E+03	nc	3.1E+03	nc	5.2E+03	nc		
2.5E-01	h			2.5E-01	r			0.1	101-77-9	4,4'-Methylenebisbenzeneamine	1.9E+00	ca	6.9E+00	ca	2.7E-02	ca	2.7E-01	ca		
1.3E-01	h	7.0E-04	h	1.3E-01	h	7.0E-04	r	0.1	101-14-4	4,4'-Methylene bis(2-chloroaniline)	3.7E+00	ca*	1.3E+01	ca*	5.2E-02	ca*	5.2E-01	ca*		
4.6E-02	i			4.6E-02	r			0.1	101-61-1	4,4'-Methylene bis(N,N'-dimethyl)aniline	1.1E+01	ca	3.7E+01	ca	1.5E-01	ca	1.5E+00	ca		
		1.0E-02	h			1.0E-02	r y		74-95-3	Methylene bromide	6.7E+01	nc	2.3E+02	nc	3.7E+01	nc	6.1E+01	nc		

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TOXICITY VALUES										CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC	skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
7.5E-03	i	6.0E-02	i	1.6E-03	i	8.6E-01	h	y		75-09-2	Methylene chloride	9.1E+00	ca	2.1E+01	ca	4.1E+00	ca	4.3E+00	ca	2.0E-02	1.0E-03
		1.7E-04	r			1.7E-04	i		0.1	101-68-8	4,4'-Methylene diphenyl diisocyanate	1.0E+01	nc	1.0E+02	nc	6.2E-01	nc	6.2E+00	nc		
		6.0E-01	i			1.4E+00	i	y		78-93-3	**Methyl ethyl ketone (2-Butanone)**	2.2E+04	nc	1.1E+05	nc	5.1E+03	nc	7.0E+03	nc		
		8.0E-02	h			8.6E-01	i	y		108-10-1	**Methyl isobutyl ketone**	5.3E+03	nc	4.7E+04	nc	3.1E+03	nc	2.0E+03	nc		
		5.7E-04	r			5.7E-04	n		0.1	74-93-1	Methyl Mercaptan	3.5E+01	nc	3.5E+02	nc	2.1E+00	nc	2.1E+01	nc		
		1.4E+00	i			2.0E-01	i	y		80-62-6	Methyl methacrylate	2.2E+03	nc	2.7E+03	sat	7.3E+02	nc	1.4E+03	nc		
3.3E-02	h			3.3E-02	r				0.1	99-55-8	2-Methyl-5-nitroaniline	1.5E+01	ca	5.2E+01	ca	2.0E-01	ca	2.0E+00	ca		
		2.5E-04	i			2.5E-04	r		0.1	298-00-0	Methyl parathion	1.5E+01	nc	1.5E+02	nc	9.1E-01	nc	9.1E+00	nc		
		5.0E-02	i			5.0E-02	r		0.1	95-48-7	2-Methylphenol	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc	1.5E+01	8.0E-01
		5.0E-02	i			5.0E-02	r		0.1	108-39-4	3-Methylphenol	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		5.0E-03	h			5.0E-03	r		0.1	106-44-5	4-Methylphenol	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		2.0E-02	p			2.0E-02	r		0.1	993-13-5	Methyl phosphonic acid	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		6.0E-03	h			1.1E-02	h	y		25013-15-4	Methyl styrene (mixture)	1.3E+02	nc	5.4E+02	nc	4.2E+01	nc	6.0E+01	nc		
		7.0E-02	h			7.0E-02	r	y		98-83-9	Methyl styrene (alpha)	6.8E+02	sat	6.8E+02	sat	2.6E+02	nc	4.3E+02	nc		
1.8E-03	c	8.6E-01	r	1.8E-03	c	8.6E-01	i	y		1634-04-4	**Methyl tertbutyl ether (MTBE)**	1.7E+01	ca	3.6E+01	ca	3.7E+00	ca	6.2E+00	ca		
		1.5E-01	i			1.5E-01	r		0.1	51218-45-2	Metolaclor (Dual)	9.2E+03	nc	9.2E+04	nc	5.5E+02	nc	5.5E+03	nc		
		2.5E-02	i			2.5E-02	r		0.1	21087-64-9	Metribuzin	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
1.8E+00	x	2.0E-04	i	1.8E+00	r	2.0E-04	r		0.1	2385-85-5	Mirex	2.7E-01	ca*	9.6E-01	ca	3.7E-03	ca	3.7E-02	ca		
		2.0E-03	i			2.0E-03	r		0.1	2212-67-1	Molinate	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		5.0E-03	i							7439-98-7	Molybdenum	3.9E+02	nc	5.1E+03	nc			1.8E+02	nc		
		1.0E-01	i			1.0E-01	r		0.1	10599-90-3	Monochloramine	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		2.0E-03	i			2.0E-03	r		0.1	300-76-5	Naled	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		1.0E-01	i			1.0E-01	r		0.1	15299-99-7	Napropamide	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
		2.0E-02	i							7440-02-0	Nickel (soluble salts)	1.6E+03	nc	2.0E+04	nc			7.3E+02	nc	1.3E+02	7.0E+00
				8.4E-01	i						Nickel refinery dust					8.0E-03	ca				
				1.7E+00	i					12035-72-2	Nickel subsulfide			1.1E+04	ca	4.0E-03	ca				
Tap Water PRG Based on Infant NOAEL (see IRIS)										14797-55-8	Nitrate+++							1.0E+04	nc		
Tap Water PRG Based on Infant NOAEL (see IRIS)										14797-65-0	Nitrite+++							1.0E+03	nc		
		3.0E-03	p			3.0E-05	p		0.1	88-74-4	**2-Nitroaniline**	1.8E+02	nc	1.8E+03	nc	1.1E-01	nc	1.1E+02	nc		
2.1E-02	p	3.0E-04	p	2.1E-02	r	3.0E-04	p		0.1	99-09-2	**3-Nitroaniline**	1.8E+01	nc	8.2E+01	ca**	3.2E-01	ca**	3.2E+00	ca**		
2.1E-02	p	3.0E-03	p	2.1E-02	r	1.0E-03	p		0.1	100-01-6	**4-Nitroaniline**	2.3E+01	ca**	8.2E+01	ca*	3.2E-01	ca*	3.2E+00	ca*		
		5.0E-04	i			5.7E-04	h	y		98-95-3	Nitrobenzene	2.0E+01	nc	1.0E+02	nc	2.1E+00	nc	3.4E+00	nc	1.0E-01	7.0E-03
		7.0E-02	h			7.0E-02	r		0.1	67-20-9	Nitrofurantoin	4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc		
1.5E+00	h			1.5E+00	r				0.1	59-87-0	Nitrofurazone	3.2E-01	ca	1.1E+00	ca	4.5E-03	ca	4.5E-02	ca		
1.4E-02	n			1.4E-02	r				0.1	55-63-0	Nitroglycerin	3.5E+01	ca	1.2E+02	ca	4.8E-01	ca	4.8E+00	ca		
		1.0E-01	i			1.0E-01	r		0.1	556-88-7	Nitroguanidine	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
9.4E+00	r	5.7E-03	r	9.4E+00	h	5.7E-03	i	y		79-46-9	2-Nitropropane					7.2E-04	ca	1.2E-03	ca		
5.4E+00	i			5.6E+00	i			y		924-16-3	N-Nitrosodi-n-butylamine	2.4E-02	ca	5.8E-02	ca	1.2E-03	ca	2.0E-03	ca		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		V O C / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
2.8E+00	i			2.8E+00	r			0.1	1116-54-7	N-Nitrosodiethanolamine	1.7E-01	ca	6.2E-01	ca	2.4E-03	ca	2.4E-02	ca		
1.5E+02	i			1.5E+02	i			0.1	55-18-5	N-Nitrosodiethylamine	3.2E-03	ca	1.1E-02	ca	4.5E-05	ca	4.5E-04	ca		
5.1E+01	i	8.0E-06	p	4.9E+01	i	8.0E-06	r	0.1	62-75-9	**N-Nitrosodimethylamine**	9.5E-03	ca*	3.4E-02	ca	1.4E-04	ca	1.3E-03	ca		
4.9E-03	i	2.0E-02	p	4.9E-03	r	2.0E-02	r	0.1	86-30-6	**N-Nitrosodiphenylamine**	9.9E+01	ca*	3.5E+02	ca*	1.4E+00	ca*	1.4E+01	ca*	1.0E+00	6.0E-02
7.0E+00	i			7.0E+00	r			0.1	621-64-7	N-Nitroso di-n-propylamine	6.9E-02	ca	2.5E-01	ca	9.6E-04	ca	9.6E-03	ca	5.0E-05	2.0E-06
2.2E+01	i			2.2E+01	r			0.1	10595-95-6	N-Nitroso-N-methylethylamine	2.2E-02	ca	7.8E-02	ca	3.1E-04	ca	3.1E-03	ca		
2.1E+00	i			2.1E+00	i			0.1	930-55-2	N-Nitrosopyrrolidine	2.3E-01	ca	8.2E-01	ca	3.1E-03	ca	3.2E-02	ca		
		2.0E-02	p			2.0E-02	r y		99-08-1	**m-Nitrotoluene**	7.3E+02	nc	1.0E+03	sat	7.3E+01	nc	1.2E+02	nc		
2.3E-01	p	1.0E-02	h	2.3E-01	r	1.0E-02	r y		99-08-1	**o-Nitrotoluene**	8.8E-01	ca	2.2E+00	ca	2.9E-02	ca	4.9E-02	ca		
1.7E-02	p	1.0E-02	p	1.7E-02	r	1.0E-02	r y		99-99-0	**p-Nitrotoluene**	1.2E+01	ca*	3.0E+01	ca*	4.0E-01	ca*	6.6E-01	ca*		
		4.0E-02	i			4.0E-02	r	0.1	27314-13-2	Norflurazon	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
		7.0E-04	i			7.0E-04	r	0.1	85509-19-9	NuStar	4.3E+01	nc	4.3E+02	nc	2.6E+00	nc	2.6E+01	nc		
		3.0E-03	i			3.0E-03	r	0.1	32536-52-0	Octabromodiphenyl ether	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
		2.0E-03	h			2.0E-03	r	0.1	152-16-9	Octamethylpyrophosphoramide	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		5.0E-02	i			5.0E-02	r	0.1	19044-88-3	Oryzalin	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		5.0E-03	i			5.0E-03	r	0.1	19666-30-9	Oxadiazon	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		2.5E-02	i			2.5E-02	r	0.1	23135-22-0	Oxamyl	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		3.0E-03	i			3.0E-03	r	0.1	42874-03-3	Oxyfluorfen	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
		1.3E-02	i			1.3E-02	r	0.1	76738-62-0	Paclobutrazol	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		4.5E-03	i			4.5E-03	r	0.1	4685-14-7	Paraquat	2.7E+02	nc	2.8E+03	nc	1.6E+01	nc	1.6E+02	nc		
		6.0E-03	h			6.0E-03	r	0.1	56-38-2	Parathion	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc		
		5.0E-02	h			5.0E-02	r	0.1	1114-71-2	Pebulate	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		4.0E-02	i			4.0E-02	r	0.1	40487-42-1	Pendimethalin	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
2.3E-02	h			2.3E-02	r			0.1	87-84-3	Pentabromo-6-chloro cyclohexane	2.1E+01	ca	7.5E+01	ca	2.9E-01	ca	2.9E+00	ca		
		2.0E-03	i			2.0E-03	r	0.1	32534-81-9	Pentabromodiphenyl ether	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		8.0E-04	i			8.0E-04	r	0.1	608-93-5	Pentachlorobenzene	4.9E+01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc		
2.6E-01	h	3.0E-03	i	2.6E-01	r	3.0E-03	r	0.1	82-68-8	Pentachloronitrobenzene	1.9E+00	ca*	6.6E+00	ca	2.6E-02	ca	2.6E-01	ca		
1.2E-01	i	3.0E-02	i	1.2E-01	r	3.0E-02	r	0.25	87-86-5	Pentachlorophenol	3.0E+00	ca	9.0E+00	ca	5.6E-02	ca	5.6E-01	ca	3.0E-02	1.0E-03
		1.0E-04	n						7601-90-3	Perchlorate	7.8E+00	ca/nc	1.0E+02	ca/nc			3.6E+00	ca/nc		
		5.0E-02	i			5.0E-02	r	0.1	52645-53-1	Permethrin	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		2.5E-01	i			2.5E-01	r	0.1	13684-63-4	Phenmedipham	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
		3.0E-01	i			3.0E-01	r	0.1	108-95-2	**Phenol**	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc	1.0E+02	5.0E+00
		2.0E-03	n			2.0E-03	r	0.1	92-84-2	Phenothiazine	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		6.0E-03	i			6.0E-03	r	0.1	108-45-2	m-Phenylenediamine	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc		
4.7E-02	h			4.7E-02	r			0.1	95-54-5	**o-Phenylenediamine**	1.0E+01	ca	3.7E+01	ca	1.4E-01	ca	1.4E+00	ca		
		1.9E-01	h			1.9E-01	r	0.1	106-50-3	p-Phenylenediamine	1.2E+04	nc	1.0E+05	max	6.9E+02	nc	6.9E+03	nc		
		8.0E-05	i			8.0E-05	r	0.1	62-38-4	Phenylmercuric acetate	4.9E+00	nc	4.9E+01	nc	2.9E-01	nc	2.9E+00	nc		
1.9E-03	h			1.9E-03	r			0.1	90-43-7	2-Phenylphenol	2.5E+02	ca	8.9E+02	ca	3.5E+00	ca	3.5E+01	ca		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		2.0E-04	h			2.0E-04	r	0.1	298-02-2	Phorate	1.2E+01	nc	1.2E+02	nc	7.3E-01	nc	7.3E+00	nc		
		2.0E-02	i			2.0E-02	r	0.1	732-11-6	Phosmet	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		3.0E-04	i			8.6E-05	i	0.1	7803-51-2	Phosphine	1.8E+01	nc	1.8E+02	nc	3.1E-01	nc	1.1E+01	nc		
						2.9E-03	i		7664-38-2	Phosphoric acid					1.0E+01	nc				
		2.0E-05	i						7723-14-0	Phosphorus (white)	1.6E+00	nc	2.0E+01	nc			7.3E-01	nc		
		1.0E+00	h			1.0E+00	r	0.1	100-21-0	p-Phthalic acid	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc		
		2.0E+00	i			3.4E-02	h	0.1	85-44-9	Phthalic anhydride	1.0E+05	max	1.0E+05	max	1.2E+02	nc	7.3E+04	nc		
		7.0E-02	i			7.0E-02	r	0.1	1918-02-1	Picloram	4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc		
		1.0E-02	i			1.0E-02	r	0.1	29232-93-7	Pirimiphos-methyl	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
8.9E+00	h	7.0E-06	h	8.9E+00	r	7.0E-06	r	0.1		Polybrominated biphenyls	5.5E-02	ca**	1.9E-01	ca*	7.6E-04	ca*	7.6E-03	ca*		
										Polychlorinated biphenyls (PCBs, see IRIS)										
7.0E-02	i	7.0E-05	i	7.0E-02	i	7.0E-05	r	0.14	12674-11-2	PCBs (unspeciated mixture, low risk, e.g. Aroclor 1016)	3.9E+00	nc	2.1E+01	ca**	9.6E-02	ca**	9.6E-01	ca**		
2.0E+00	i	2.0E-05	i	2.0E+00	i	2.0E-05	r	0.14	11097-69-1	PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254)	2.2E-01	ca**	7.4E-01	ca*	3.4E-03	ca*	3.4E-02	ca*		
4.5E+00	n			4.5E+00	r			0.1	61788-33-8	Polychlorinated terphenyls	1.1E-01	ca	3.8E-01	ca	1.5E-03	ca	1.5E-02	ca		
										Polynuclear aromatic hydrocarbons (PAHs)										
		6.0E-02	i			6.0E-02	r	y	83-32-9	Acenaphthene	3.7E+03	nc	2.9E+04	nc	2.2E+02	nc	3.7E+02	nc	5.7E+02	2.9E+01
		3.0E-01	i			3.0E-01	r	y	120-12-7	Anthracene	2.2E+04	nc	1.0E+05	max	1.1E+03	nc	1.8E+03	nc	1.2E+04	5.9E+02
7.3E-01	n			7.3E-01	r			0.13	56-55-3	Benz[a]anthracene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca	2.0E+00	8.0E-02
7.3E-01	n			7.3E-01	r			0.13	205-99-2	Benzo[b]fluoranthene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca	5.0E+00	2.0E-01
7.3E-02	n			7.3E-02	r			0.13	207-08-9	Benzo[k]fluoranthene	6.2E+00	ca	2.1E+01	ca	9.2E-02	ca	9.2E-01	ca	4.9E+01	2.0E+00
1.2E+00	c			3.9E-01	c			0.13	207-08-9	"CAL-Modified PRG"	3.8E-01	ca	1.3E+00	ca	1.7E-02	ca	5.6E-02	ca		
7.3E+00	i			7.3E+00	r			0.13	50-32-8	Benzo[a]pyrene	6.2E-02	ca	2.1E-01	ca	9.2E-04	ca	9.2E-03	ca	8.0E+00	4.0E-01
7.3E-03	n			7.3E-03	r			0.13	218-01-9	Chrysene	6.2E+01	ca	2.1E+02	ca	9.2E-01	ca	9.2E+00	ca	1.6E+02	8.0E+00
1.2E-01	c			3.9E-02	c			0.13		"CAL-Modified PRG"	3.8E+00	ca	1.3E+01	ca	1.7E-01	ca	5.6E-01	ca		
7.3E+00	n			7.3E+00	r			0.13	53-70-3	Dibenz[ah]anthracene	6.2E-02	ca	2.1E-01	ca	9.2E-04	ca	9.2E-03	ca	2.0E+00	8.0E-02
		4.0E-02	i			4.0E-02	r	0.13	206-44-0	Fluoranthene	2.3E+03	nc	2.2E+04	nc	1.5E+02	nc	1.5E+03	nc	4.3E+03	2.1E+02
		4.0E-02	i			4.0E-02	r	y	86-73-7	Fluorene	2.7E+03	nc	2.6E+04	nc	1.5E+02	nc	2.4E+02	nc	5.6E+02	2.8E+01
7.3E-01	n			7.3E-01	r			0.13	193-39-5	Indeno[1,2,3-cd]pyrene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca	1.4E+01	7.0E-01
		2.0E-02	i			8.6E-04	i	y	91-20-3	Naphthalene	5.6E+01	nc	1.9E+02	nc	3.1E+00	nc	6.2E+00	nc	8.4E+01	4.0E+00
1.2E-01	r			1.2E-01	c					**"CAL-Modified PRG"**	1.7E+00	ca	4.2E+00	ca	5.6E-02	ca	9.3E-02	ca		
		3.0E-02	i			3.0E-02	r	y	129-00-0	Pyrene	2.3E+03	nc	2.9E+04	nc	1.1E+02	nc	1.8E+02	nc	4.2E+03	2.1E+02
1.5E-01	i	9.0E-03	i	1.5E-01	r	9.0E-03	r	0.1	67747-09-5	Prochloraz	3.2E+00	ca	1.1E+01	ca	4.5E-02	ca	4.5E-01	ca		
		6.0E-03	h			6.0E-03	r	0.1	26399-36-0	Profluralin	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc		
		1.5E-02	i			1.5E-02	r	0.1	1610-18-0	Prometon	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc		
		4.0E-03	i			4.0E-03	r	0.1	7287-19-6	Prometryn	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
		7.5E-02	i			7.5E-02	r	0.1	23950-58-5	Pronamide	4.6E+03	nc	4.6E+04	nc	2.7E+02	nc	2.7E+03	nc		
		1.3E-02	i			1.3E-02	r	0.1	1918-16-7	Propachlor	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		5.0E-03	i			5.0E-03	r	0.1	709-98-8	Propanil	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		

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TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		2.0E-02	i			2.0E-02	r	0.1	2312-35-8	Propargite	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		2.0E-03	i			2.0E-03	r	0.1	107-19-7	Propargyl alcohol	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
		2.0E-02	i			2.0E-02	r	0.1	139-40-2	Propazine	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		2.0E-02	i			2.0E-02	r	0.1	122-42-9	Propham	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		1.3E-02	i			1.3E-02	r	0.1	60207-90-1	Propiconazole	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		1.0E-01	i			1.1E-01	i	y	98-82-8	Isopropylbenzene (Cumene)	1.6E+02	nc	5.2E+02	nc	4.0E+02	nc	6.6E+02	nc		
		4.0E-02	n			4.0E-02	r	y	103-65-1	n-Propylbenzene	2.4E+02	sat	2.4E+02	sat	1.5E+02	nc	2.4E+02	nc		
		5.0E-01	p			8.6E-04	p	0.1	57-55-6	Propylene glycol	3.0E+04	nc	1.0E+05	max	3.1E+00	nc	1.8E+04	nc		
		7.0E-01	h			7.0E-01	r	0.1	52125-53-8	Propylene glycol, monoethyl ether	4.3E+04	nc	1.0E+05	max	2.6E+03	nc	2.6E+04	nc		
		7.0E-01	h			5.7E-01	i	0.1	107-98-2	Propylene glycol, monomethyl ether	4.3E+04	nc	1.0E+05	max	2.1E+03	nc	2.6E+04	nc		
2.4E-01	i	8.6E-03	r	1.3E-02	i	8.6E-03	i	y	75-56-9	Propylene oxide	1.9E+00	ca*	6.6E+00	ca*	5.2E-01	ca*	2.2E-01	ca		
		2.5E-01	i			2.5E-01	r	0.1	81335-77-5	Pursuit	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
		2.5E-02	i			2.5E-02	r	0.1	51630-58-1	Pydrin	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		1.0E-03	i			1.0E-03	r	0.1	110-86-1	Pyridine	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		5.0E-04	i			5.0E-04	r	0.1	13593-03-8	Quinalphos	3.1E+01	nc	3.1E+02	nc	1.8E+00	nc	1.8E+01	nc		
3.0E+00	i			3.0E+00	r			0.1	91-22-5	Quinoline	1.6E-01	ca	5.7E-01	ca	2.2E-03	ca	2.2E-02	ca		
1.1E-01	i	3.0E-03	i	1.1E-01	r	3.0E-03	r	0.1	121-82-4	RDX (Cyclonite)	4.4E+00	ca*	1.6E+01	ca	6.1E-02	ca	6.1E-01	ca		
		3.0E-02	i			3.0E-02	r	0.1	10453-86-8	Resmethrin	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		5.0E-02	h			5.0E-02	r	0.1	299-84-3	Ronnel	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		
		4.0E-03	i			4.0E-03	r	0.1	83-79-4	Rotenone	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
		2.5E-02	i			2.5E-02	r	0.1	78587-05-0	Savey	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		5.0E-03	i					0.1	7783-00-8	Selenious Acid	3.1E+02	nc	3.1E+03	nc			1.8E+02	nc		
		5.0E-03	i						7782-49-2	Selenium	3.9E+02	nc	5.1E+03	nc			1.8E+02	nc	5.0E+00	3.0E-01
		5.0E-03	h					0.1	630-10-4	Selenourea	3.1E+02	nc	3.1E+03	nc			1.8E+02	nc		
		9.0E-02	i			9.0E-02	r	0.1	74051-80-2	Sethoxydim	5.5E+03	nc	5.5E+04	nc	3.3E+02	nc	3.3E+03	nc		
		5.0E-03	i						7440-22-4	Silver and compounds	3.9E+02	nc	5.1E+03	nc			1.8E+02	nc	3.4E+01	2.0E+00
1.2E-01	h	5.0E-03	i	1.2E-01	r	5.00E-03	r	0.1	122-34-9	Simazine	4.1E+00	ca*	1.4E+01	ca	5.6E-02	ca	5.6E-01	ca		
		4.0E-03	i						26628-22-8	Sodium azide										
2.7E-01	h	3.0E-02	i	2.7E-01	r	3.0E-02	r	0.1	148-18-5	Sodium diethyldithiocarbamate	1.8E+00	ca	6.4E+00	ca	2.5E-02	ca	2.5E-01	ca		
		2.0E-05	i			2.0E-05	r	0.1	62-74-8	Sodium fluoroacetate	1.2E+00	nc	1.2E+01	nc	7.3E-02	nc	7.3E-01	nc		
		1.0E-03	h			1.0E-03	r	0.1	13718-26-8	Sodium metavanadate	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		6.0E-01	i						7440-24-6	Strontium, stable	4.7E+04	nc	1.0E+05	max			2.2E+04	nc		
		3.0E-04	i			3.0E-04	r	0.1	57-24-9	Strychnine	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
		2.0E-01	i			2.9E-01	i	y	100-42-5	Styrene	1.7E+03	sat	1.7E+03	sat	1.1E+03	nc	1.6E+03	nc	4.0E+00	2.0E-01
		5.0E-03	p			5.0E-03	r		80-07-9	**1,1'-Sulfonylbis (4-chlorobenzene)**	3.9E+02	nc	5.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		2.5E-02	i			2.5E-02	r	0.1	88671-89-0	Systhane	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
1.5E+05	h			1.5E+05	h			0.03	1746-01-6	2,3,7,8-TCDD (dioxin)	3.9E-06	ca	1.6E-05	ca	4.5E-08	ca	4.5E-07	ca		
		7.0E-02	i			7.0E-02	r	0.1	34014-18-1	Tebuthiuron	4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc		

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG ca* (where: nc PRG < 100X ca PRG) ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC / skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
		2.0E-02	h			2.0E-02	r	0.1	3383-96-8	Temephos	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
		1.3E-02	i			1.3E-02	r	0.1	5902-51-2	Terbacil	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		2.5E-05	h			2.5E-05	r	0.1	13071-79-9	Terbufos	1.5E+00	nc	1.5E+01	nc	9.1E-02	nc	9.1E-01	nc		
		1.0E-03	i			1.0E-03	r	0.1	886-50-0	Terbutryn	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		3.0E-04	i			3.0E-04	r	0.1	95-94-3	1,2,4,5-Tetrachlorobenzene	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
2.6E-02	i	3.0E-02	i	2.6E-02	i	3.0E-02	r	y	630-20-6	1,1,1,2-Tetrachloroethane	3.2E+00	ca	7.3E+00	ca	2.6E-01	ca	4.3E-01	ca		
2.0E-01	i	6.0E-02	p	2.0E-01	i	6.0E-02	r	y	79-34-5	1,1,2,2-Tetrachloroethane	4.1E-01	ca	9.3E-01	ca	3.3E-02	ca	5.5E-02	ca	3.0E-03	2.0E-04
5.4E-01	c	1.0E-02	i	2.1E-02	c	1.0E-02	c	y	127-18-4	**Tetrachloroethylene (PCE)**	4.8E-01	ca*	1.3E+00	ca	3.2E-01	ca	1.0E-01	ca	6.0E-02	3.0E-03
		3.0E-02	i			3.0E-02	r	0.1	58-90-2	2,3,4,6-Tetrachlorophenol	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
2.0E+01	h			2.0E+01	r			0.1	5216-25-1	p,a,a,a-Tetrachlorotoluene	2.4E-02	ca	8.6E-02	ca	3.4E-04	ca	3.4E-03	ca		
2.4E-02	h	3.0E-02	i	2.4E-02	r	3.0E-02	r	0.1	961-11-5	Tetrachlorovinphos	2.0E+01	ca*	7.2E+01	ca	2.8E-01	ca	2.8E+00	ca		
		5.0E-04	i			5.0E-04	r	0.1	3689-24-5	Tetraethyldithiopyrophosphate	3.1E+01	nc	3.1E+02	nc	1.8E+00	nc	1.8E+01	nc		
7.6E-03	n	2.1E-01	n	6.8E-03	n	8.6E-02	n	y	109-99-9	Tetrahydrofuran	9.4E+00	ca	2.1E+01	ca	9.9E-01	ca	1.6E+00	ca		
		6.6E-05	i						7440-28-0	Thallium and compounds+++	5.2E+00	nc	6.7E+01	nc			2.4E+00	nc		
		1.0E-02	i			1.0E-02	r	0.1	28249-77-6	Thiobencarb	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		5.0E-02	n			5.0E-02	r	0.1	N/A	Thiocyanate	3.1E+03	nc	1.0E+05	max	1.8E+02	nc	1.8E+03	nc		
		3.0E-04	h			3.0E-04	r	0.1	39196-18-4	Thiofanox	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
		8.0E-02	i			8.0E-02	r	0.1	23564-05-8	Thiophanate-methyl	4.9E+03	nc	4.9E+04	nc	2.9E+02	nc	2.9E+03	nc		
		5.0E-03	i			5.0E-03	r	0.1	137-26-8	Thiram	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
		6.0E-01	h						7440-31-5	Tin (inorganic, also see tributyltin oxide)	4.7E+04	nc	1.0E+05	max			2.2E+04	nc		
		4.0E+00	n			8.6E-03	n		7440-32-6	Titanium	1.0E+05	max	1.0E+05	max	3.1E+01	nc	1.5E+05	nc		
		2.0E-01	i			1.1E-01	i	y	108-88-3	Toluene	5.2E+02	sat	5.2E+02	sat	4.0E+02	nc	7.2E+02	nc	1.2E+01	6.0E-01
3.2E+00	h			3.2E+00	r			0.1	95-80-7	Toluene-2,4-diamine	1.5E-01	ca	5.4E-01	ca	2.1E-03	ca	2.1E-02	ca		
		6.0E-01	h			6.0E-01	r	0.1	95-70-5	Toluene-2,5-diamine	3.7E+04	nc	1.0E+05	max	2.2E+03	nc	2.2E+04	nc		
		2.0E-01	h			2.0E-01	r	0.1	823-40-5	Toluene-2,6-diamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
1.9E-01	i			1.9E-01	r			0.1	106-49-0	p-Toluidine	2.6E+00	ca	9.1E+00	ca	3.5E-02	ca	3.5E-01	ca		
1.1E+00	i			1.1E+00	i			0.1	8001-35-2	Toxaphene	4.4E-01	ca	1.6E+00	ca	6.0E-03	ca	6.1E-02	ca	3.1E+01	2.0E+00
		7.5E-03	i			7.5E-03	r	0.1	66841-25-6	Tralomethrin	4.6E+02	nc	4.6E+03	nc	2.7E+01	nc	2.7E+02	nc		
		1.3E-02	i			1.3E-02	r	0.1	2303-17-5	Triallate	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
		1.0E-02	i			1.0E-02	r	0.1	82097-50-5	Triasulfuron	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		5.0E-03	i			5.0E-03	r	0.1	615-54-3	1,2,4-Tribromobenzene	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
9.2E-03	p	2.0E-01	p	9.2E-03	r	2.0E-01	r	0.1	126-73-8	**Tributyl phosphate**	5.3E+01	ca	1.9E+02	ca	7.3E-01	ca	7.3E+00	ca		
		3.0E-04	i					0.1	56-35-9	Tributyltin oxide (TBTO)	1.8E+01	nc	1.8E+02	nc			1.1E+01	nc		
3.4E-02	h			3.4E-02	r			0.1	634-93-5	2,4,6-Trichloroaniline	1.4E+01	ca	5.1E+01	ca	2.0E-01	ca	2.0E+00	ca		
2.9E-02	h			2.9E-02	r			0.1	33663-50-2	2,4,6-Trichloroaniline hydrochloride	1.7E+01	ca	5.9E+01	ca	2.3E-01	ca	2.3E+00	ca		
		1.0E-02	i			1.0E-03	p	y	120-82-1	**1,2,4-Trichlorobenzene**	6.2E+01	nc	2.2E+02	nc	3.7E+00	nc	7.2E+00	nc	5.0E+00	3.0E-01
		2.8E-01	n			6.3E-01	p	y	71-55-6	1,1,1-Trichloroethane	1.2E+03	sat	1.2E+03	sat	2.3E+03	nc	3.2E+03	nc	2.0E+00	1.0E-01
5.7E-02	i	4.0E-03	i	5.6E-02	i	4.0E-03	r	y	79-00-5	1,1,2-Trichloroethane	7.3E-01	ca*	1.6E+00	ca*	1.2E-01	ca	2.0E-01	ca	2.0E-02	9.0E-04

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TOXICITY VALUES										CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs) "Direct Contact Exposure Pathways"								SOIL SCREENING LEVELS "Migration to Ground Water"	
SFo 1/(mg/kg-d)		RfDo (mg/kg-d)		SFi 1/(mg/kg-d)		RfDi (mg/kg-d)		VOC	skin abs. soils	CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
4.0E-01	n	3.0E-04	n	4.0E-01	n	1.0E-02	n	y		79-01-6	Trichloroethylene (TCE)	5.3E-02	ca	1.1E-01	ca	1.7E-02	ca	2.8E-02	ca	6.0E-02	3.0E-03
1.3E-02	c			7.0E-03	c	1.7E-01	c	y		79-01-6	**"CAL-Modified PRG"**	2.9E+00	ca	6.5E+00	ca	9.6E-01	ca	1.4E+00	ca		
		3.0E-01	i			2.0E-01	h	y		75-69-4	Trichlorofluoromethane	3.9E+02	nc	2.0E+03	sat	7.3E+02	nc	1.3E+03	nc		
		1.0E-01	i			1.0E-01	r		0.1	95-95-4	2,4,5-Trichlorophenol	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc	2.7E+02	1.4E+01
1.1E-02	i	1.0E-04	n	1.1E-02	i	1.0E-04	r		0.1	88-06-2	2,4,6-Trichlorophenol	6.1E+00	nc**	6.2E+01	nc**	3.7E-01	nc**	3.6E+00	nc**	2.0E-01	8.0E-03
7.0E-02	c			7.0E-02	c				0.1	88-06-2	"CAL-Modified PRG"	6.9E+00	ca	2.5E+01	ca	9.6E-02	ca	9.6E-01	ca		
		1.0E-02	i			1.0E-02	r		0.1	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
		8.0E-03	i			8.0E-03	r		0.1	93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc	2.9E+02	nc		
		5.0E-03	i			5.0E-03	r	y		598-77-6	**1,1,2-Trichloropropane**	7.1E+01	nc	2.7E+02	nc	1.8E+01	nc	3.0E+01	nc		
2.0E+00	n	6.0E-03	i	2.0E+00	r	1.4E-03	n	y		96-18-4	**1,2,3-Trichloropropane**	3.4E-02	ca	7.6E-02	ca	3.4E-03	ca	5.6E-03	ca		
		1.0E-02	p			3.0E-04	p	y		96-19-5	**1,2,3-Trichloropropene**	5.2E+00	nc	1.7E+01	nc	1.1E+00	nc	2.2E+00	nc		
		3.0E-03	i			3.0E-03	r		0.1	58138-08-2	Tridiphane	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	1.1E+02	nc		
		2.0E-03	r			2.0E-03	i	y		121-44-8	Triethylamine	2.3E+01	nc	8.6E+01	nc	7.3E+00	nc	1.2E+01	nc		
7.7E-03	i	7.5E-03	i	7.7E-03	r	7.5E-03	r		0.1	1582-09-8	Trifluralin	6.3E+01	ca**	2.2E+02	ca*	8.7E-01	ca*	8.7E+00	ca*		
		1.4E-04	r			1.4E-04	n		0.1	552-30-7	Trimellitic Anhydride (TMAN)	8.6E+00	nc	8.6E+01	nc	5.1E-01	nc	5.1E+00			
		5.0E-02	p			1.7E-03	p	y		95-63-6	1,2,4-Trimethylbenzene	5.2E+01	nc	1.7E+02	nc	6.2E+00	nc	1.2E+01	nc		
		5.0E-02	p			1.7E-03	p	y		108-67-8	1,3,5-Trimethylbenzene	2.1E+01	nc	7.0E+01	nc	6.2E+00	nc	1.2E+01	nc		
3.7E-02	h			3.7E-02	r				0.1	512-56-1	Trimethyl phosphate	1.3E+01	ca	4.7E+01	ca	1.8E-01	ca	1.8E+00	ca		
		3.0E-02	i			3.0E-02	r		0.1	99-35-4	1,3,5-Trinitrobenzene	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc		
		1.0E-02	h			1.0E-02	r		0.1	479-45-8	Trinitrophenylmethylnitramine	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
3.0E-02	i	5.0E-04	i	3.0E-02	r	5.0E-04	r		0.1	118-96-7	2,4,6-Trinitrotoluene	1.6E+01	ca**	5.7E+01	ca**	2.2E-01	ca**	2.2E+00	ca**		
		2.0E-02	p			2.0E-02	r		0.1	791-28-6	**Triphenylphosphine oxide**	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
1.4E-02	p	3.1E-01	p	1.4E-02	r	3.1E-01	r		0.1	115-96-8	**Tris(2-chloroethyl) phosphate**	3.5E+01	ca	1.2E+02	ca	4.8E-01	ca	4.8E+00	ca		
3.2E-03	p	1.0E-01	p	3.2E-03	r	1.0E-01	r		0.1	78-42-2	**Tris(2-ethylhexyl) phosphate**	1.5E+02	ca*	5.4E+02	ca	2.1E+00	ca	2.1E+01	ca		
		2.0E-04	n							7440-61-1	Uranium (chemical toxicity only)	1.6E+01	nc	2.0E+02	nc			7.3E+00	nc		
		1.0E-03	n							7440-62-2	Vanadium and compounds	7.8E+01	nc	1.0E+03	nc			3.6E+01	nc	6.0E+03	3.0E+02
		1.0E-03	i			1.0E-03	r		0.1	1929-77-7	Vernam	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc		
		2.5E-02	i			2.5E-02	r		0.1	50471-44-8	Vinclozolin	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc		
		1.0E+00	h			5.7E-02	i	y		108-05-4	Vinyl acetate	4.3E+02	nc	1.4E+03	nc	2.1E+02	nc	4.1E+02	nc	1.7E+02	8.0E+00
1.1E-01	r	8.6E-04	r	1.1E-01	h	8.6E-04	i	y		593-60-2	Vinyl bromide (bromoethene)	1.9E-01	ca*	4.2E-01	ca*	6.1E-02	ca*	1.0E-01	ca*		
1.5E+00	i	3.0E-03	i	3.1E-02	i	2.9E-02	i	y		75-01-4	Vinyl chloride (child/adult)+++	7.9E-02	ca			1.1E-01	ca	2.0E-02	ca	1.0E-02	7.0E-04
7.5E-01	i	3.0E-03	i	1.6E-02	i	2.9E-02	i	y		75-01-4	Vinyl chloride (adult)			7.5E-01	ca						
		3.0E-04	i			3.0E-04	r		0.1	81-81-2	Warfarin	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc		
		2.0E-01	i			2.9E-02	i	y	0.1	1330-20-7	**Xylenes**	2.7E+02	nc	4.2E+02	sat	1.1E+02	nc	2.1E+02	nc	2.1E+02	1.0E+01
		3.0E-01	i							7440-66-6	Zinc	2.3E+04	nc	1.0E+05	max			1.1E+04	nc	1.2E+04	6.2E+02
		3.0E-04	i							1314-84-7	Zinc phosphide	2.3E+01	nc	3.1E+02	nc			1.1E+01	nc		
		5.0E-02	i			5.0E-02	r		0.1	12122-67-7	Zineb	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc		

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG ca* (where: nc PRG < 100X ca PRG) ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide) DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES						CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs)				SOIL SCREENING LEVELS	
				V skin			"Direct Contact Exposure Pathways"				"Migration to Ground Water"	
SFo	RfDo	SFi	RfDi	O abs.	CAS No.		Residential	Industrial	Ambient Air	Tap Water	DAF 20	DAF 1
1/(mg/kg-d)	(mg/kg-d)	1/(mg/kg-d)	(mg/kg-d)	C soils			Soil (mg/kg)	Soil (mg/kg)	(ug/m^3)	(ug/l)	(mg/kg)	(mg/kg)

PRG TABLE
Version 9
October 2004
Stanford J. Smucker Ph.D., EPA Region IX
Technical Support Section (SFD-8-4)
75 Hawthorne Street, San Francisco, CA 94105-3901

EXPOSURE PARAMETERS

Target cancer risk	1E-06	TR
Target Hazard Quotient	1.0	THQ
Body weight, adult (kg)	70	BW_adult
Body wt, age 1-6 (kg)	15	BW-child
Default skin surface area for soil contact , adult resident (	5700	SA_adult
Default skin surface area for soil contact , child (cm^2/da	2800	SA_child
Default skin surface area for soil contact, adult worker (cr	3300	SA_work
Default adherence factor, adult resident (mg/cm^2)	0.07	AF_adult
Default adherence factor, child (mg/cm^2)	0.20	AF_child
Default adherence factor, adult worker (mg/cm^2)	0.20	AF_work
Dermal absorption in soil (non-volatile organics)	0.10	ABS_org
Averaging time (years of life):	70	AT
Air breathed (m3/d)	20	IRA_adult
	10	IRA_child
Drinking water ingestion (L/d)	2	IRW_adult
	1	IRW_child
Volatilization factor - water (L/m^3)	0.5	VF_W
Volatilization factor - soil (m^3/kg)		VF_S
Particulate emission factor (m^3/kg)	1.3E+09	PEF
Soil ingestion - adult resident (mg/d)	100	IRS_adult
Soil ingestion - child age 1-6 (mg/d)	200	IRS_child
Soil ingestion - adult worker (mg/d)	100	IRS_work
Exposure frequency (d/yr)	350	EF_R
Exposure duration, age 1-6 (yr)	6	ED_C
Exposure duration, adult (yr)	30	ED_A
Exposure duration, lifetime (yr)	70	ED_L
Residential Age-adjusted factors for carcinogens only		
Ingestion factor for soils ([mg*yr]/[kg*d]) See text.	114	IFS_adj
Skin contact factor for soils ([mg*yr]/[kg*d]) See text.	361	SFS_adj
Inhalation factor ([m^3*yr]/[kg-d]) See text.	11	InhF_adj
Ingestion factor for water ([L*yr]/[kg-d]) See text	1.1	IFW_adj
Exposure frequency, adult worker (d/yr)	250	EF_work
Exposure duration, adult worker (yr)	25	ED_work

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