6.0 NATURE AND EXTENT OF CONTAMINATION

6.1. Overview

This section summarizes the nature and extent of contaminants in soil, groundwater, sediment, soil vapor and stormwater outfall at the Haley Site. The occurrence and characteristics of LNAPL also are presented in this section because of the importance of LNAPL as a contaminant source. The discussion of the nature and extent of contamination focuses on the IHSs in soil, groundwater and sediment (Section 5.0). Collectively, the IHSs are representative of the vertical and lateral extent of Haley constituents and the risk they pose to human health and the environment. These compounds also effectively illustrate cross-media impacts (Section 6.8), and are instrumental in refining the CSM. The distribution of IHSs is described for the entire Haley Site, including the area where the Haley, Cornwall Landfill and Whatcom Waterway sites overlap. Relevant data from the Cornwall Landfill site and Whatcom Waterway RIs that are incorporated in the tables, figures and discussion in this RI report are identified in Section 3.6.

6.2. LNAPL Occurrence and Characteristics

6.2.1. Overview

The presence of LNAPL in the Haley upland is primarily the result of historical releases of carrier oil at the Haley wood treatment facility. Prior lumber mill activities and nearby landfill activities at the Cornwall site may have also resulted in past petroleum releases. This section focuses on carrier oil because it appears to be the primary source of petroleum-related contamination on the Haley Site. Contaminants associated with former Haley operations were mixed with or were part of the carrier oil. The carrier oil used at Haley was P-9 oil (Edde 1985a), which is a diesel-like product commonly used by the wood treatment industry. P-9 carrier oil (American Wood Protection Association [AWPA] Standard P9-91, APWA 1991) is generally a light diesel-range hydrocarbon predominantly in the C10 to C18 range, composed primarily of aromatic hydrocarbons. Carrier oil may contain a small proportion of hydrocarbons heavier than C18, including hydrocarbons that elute in the heavy oil-range (>C24). The nature and behavior of LNAPL contributes to the understanding of the distribution, fate, transport, and ultimately the cleanup requirements of other Site-related contaminants.

Carrier oil was released primarily in the vicinity of wood treatment equipment and facilities, and areas where treated wood was stored. Known or potential releases occurred from above-ground and underground storage tanks, piping, the retort, and wastewater seepage pit (Figure 2-4). Treated wood was stored in the open area north of the tram tracks, beneath the drying sheds, and on drip pads and other locations near the shoreline west of the Haley property (Figure 2-4).

Oil releases in the past resulted in accumulation of LNAPL that remains today in portions of the Site. The term “LNAPL” used in this RI report refers to nonaqueous-phase hydrocarbon having a density less than water that is either: (1) present at residual saturation concentrations and immobile, or (2) present at concentrations greater than residual saturation and potentially mobile. LNAPL that exceeds residual saturation is synonymous with the common term “free product” and has been identified as trace (<0.01 feet) or measureable (>0.01 feet) in several monitoring wells in the Haley upland. Sections 6.2.2 through 6.2.5 describe the occurrence of LNAPL, the LNAPL chemical

composition and type of petroleum present, LNAPL recovery to date, and the extent of the petroleum smear zone where oil releases and LNAPL migration have impacted soil and groundwater. These interpretations are based on data collected during previous studies (Section 2.0), data collected for the Haley RI, monitoring of LNAPL conditions and LNAPL recovery in monitoring wells from 2001 to 2013, and data and findings from the Cornwall Landfill RI (Landau 2013). The nature and extent of petroleum hydrocarbons (TPH) as a constituent in soil, soil vapor, sediment and a storm drain outfall sample are discussed in Sections 6.3 through 6.7.

6.2.2. LNAPL Thickness

LNAPL thicknesses in wells are based on observations during periodic monitoring of wells located on the Haley Site and the Cornwall site. LNAPL monitoring observations include the presence or absence of LNAPL, and LNAPL thicknesses in wells (Table 6-1). LNAPL monitoring occurred weekly or every other week between 2001 and 2007, and quarterly thereafter except for the period from mid-2009 to the end of 2010, when no monitoring was performed due to ownership transition of the Haley property.

Measurable LNAPL, defined as 0.01 feet thick or more in monitoring wells, has been consistently present near the shoreline in the western portion of the Haley upland since monitoring began (Figure 6-1). The greatest thicknesses are present in monitoring wells TL-MW-2 through TL-MW-6 and TL-MW-8 (Table 6-1a); all but one of these wells (TL-MW-6) are located east (upgradient) of the existing sheet pile barrier (Figure 6-1). LNAPL in monitoring wells east of the sheet pile barrier is present more frequently and at greater thicknesses than in other portions of the Site. The area directly east of (behind) the sheet pile wall where LNAPL is most consistently present in monitoring wells as a distinct layer (e.g., free product) and is apparently continuous, is referred to in this RI Report as the "LNAPL Plume" (Figure 6-1). Measureable LNAPL in wells TL-MW-10 and TL-MW-12 along the shoreline south of the sheet pile barrier is present only intermittently; therefore, potentially mobile LNAPL may not be continuous to the south of the sheet pile barrier.

Measurable in-well LNAPL is intermittently present at locations farther inland from the shoreline as follows (Figure 6-1):

- At well HS-MW-8, between two of the former drying sheds where treated wood was stored.
- At wells HS-MW-7 and TL-MW-1, near the alignment of the Haley facility 12-inch wooden storm drain.
- At well HS-MW-4, north of the former tram tracks.
- At wells CL-MW-1H, CL-MW-6 and RITP-7 on the Cornwall property, south of the former Haley retort.
- At well CL-MW-103 on the Cornwall property, southwest of the former Haley wastewater seepage pit.

LNAPL is not consistently present in TL-MW-7, TL-MW-10, TL-MW-12 and the inland wells listed above. When present, LNAPL thicknesses in these wells are considerably less than in the LNAPL Plume area directly behind the sheet pile barrier.

An understanding of the extent of LNAPL at the Site has evolved as the number and location of explorations expanded during the course of Site investigations. LNAPL was first identified in wells completed along the shoreline near the 2000 seep location. It is likely that the LNAPL Plume previously existed west of its present-day location, prior to erosion of the upland and the associated easterly retreat of the shoreline bank. The LNAPL observed in TL-MW-6 and TL-MW-9, outside (west) of the sheet pile barrier, likely represents remnants of the LNAPL Plume that existed at those locations prior to construction of the sheet pile barrier. Routine monitoring indicates that the sheet pile barrier has prevented further migration of the LNAPL Plume.

LNAPL is significantly influenced by vertical groundwater table fluctuations, and can become immobile under conditions of rapidly fluctuating groundwater levels (API 2004), such as the tidally-influenced conditions near the Haley shoreline. Accumulation of LNAPL at the Haley shoreline may be due to these "hydraulic damming" effects. LNAPL mobility is discussed in Section 7.0.

As described above, LNAPL is thickest and most consistently present in wells located in the LNAPL Plume near the shoreline. From 2010 to 2013, the greatest apparent LNAPL thickness (approximately 6 feet) occurred in well TL-MW-2 in March 2011 and January 2013 (Table 4-1). LNAPL thicknesses at TL-MW-2 are illustrated in Figure 6-2. Well TL-MW-2 is near the south end of the sheet pile barrier (Figure 6-1).

The relationship between LNAPL thickness and groundwater levels in the Haley upland monitoring wells is variable near the shoreline where groundwater levels are affected by tides. LNAPL is only present intermittently in inland monitoring wells; LNAPL thicknesses in the inland monitoring wells appear to be slightly greater during periods of lower groundwater elevations (Appendix B, Table B-6).

LNAPL thicknesses measured between 2001 and 2012 have not shown any consistent increasing or decreasing trends over this extended period of time (Tables 6-1a and 6-1b). Data for well TL-MW-3 (Figure 6-3) typical for wells within the LNAPL Plume, do not suggest apparent long-term trends in LNAPL thickness over time.

6.2.3. UST Oil and LNAPL Chemical Analytical Data

Samples of petroleum product were obtained from the Haley UST (Figure 2-4), explorations (monitoring wells and test pits), and the oil seep that occurred in 2000 along the Haley shoreline. Table 6-2 presents the chemical analytical results for these samples, which include the following:

- Three oil samples obtained from the Haley UST: one sample obtained in 2000 and analyzed only for PCP; one sample obtained in 2000 and analyzed only for SVOCs; and one sample obtained in 2004 and analyzed only for dioxins/furans.
- A beach oil seep sample obtained in 2000 and analyzed for dioxins/furans and select SVOCs.
- Three separate-phase LNAPL samples obtained in 2000 from the LNAPL Plume at shoreline monitoring wells TL-MW-2 (SVOCs), TL-MW-3 (dioxins/furans) and TL-MW-4 (SVOCs), and one LNAPL sample obtained in 2005 from Cornwall RI test pit RITP-7 (PAHs).

Additional data sources for LNAPL characterization included petroleum hydrocarbon chromatograms for Haley UST oil samples and a 2005 LNAPL sample from well TL-MW-2. These hydrocarbon chromatograms were compared to a sample of P-9 carrier oil, a diesel-range hydrocarbon product.

The hydrocarbon chromatograms for the Haley UST oil samples and the LNAPL sample from well TL-MW-2 were all similar to the P-9 carrier oil. Hydrocarbon chromatograms for these samples are provided in Appendix J.

Interpretation and conclusions based on chemical analytical data for the UST oil, oil seep and LNAPL samples are limited because sample analyses resulted in elevated reporting limits in many cases (Table 6-2). The discussion below focuses on chemical analyses for PCP and dioxins/furans in the UST oil and LNAPL samples because PCP was a constituent of the P-9 carrier oil used in wood treatment at the Haley facility, and dioxins/furans are impurities in PCP.

PCP comprised 6.2 and 6.8 percent of the UST oil in the two samples analyzed; these results are generally consistent with the Haley facility operational report which indicated that Haley wood treatment carrier oil contained approximately 5 percent PCP (Edde 1985a). PCP was detected in only one of the other samples (the beach oil seep sample) tested.

The primary dioxin/furan congeners found in commercial-grade PCP include: OCDD, HpCDD, HxCDD, and HxCDF (EPA 1997). Dioxins/furans were analyzed in only three oil or LNAPL samples: one of the UST oil samples, the beach oil seep sample and the LNAPL sample from well TL-MW-3. The dioxin/furan congeners with the highest detected concentrations in these samples were the heavily chlorinated compounds: OCDD and OCDF, and 1,2,3,4,6,7,8-HpCDD, 1,2,3,6,7,8-HxCDD and 1,2,3,4,6,7,8-HpCDF.

As noted above, one UST oil and three LNAPL samples were analyzed for SVOCs. Interpretations with regard to SVOCs in the UST oil and LNAPL samples are limited due to elevated reporting limits in many cases. The PAH compound detected at the highest concentration in the oil and LNAPL samples (other than PCP) was 2-methynaphthalene in the Haley UST oil sample (0.85 percent) and the LNAPL sample from Cornwall test pit RITP-7 (1.7 percent). Other PAHs detected at the highest concentrations (greater than 0.1 percent) in one or more of the samples include the following: anthracene, fluorene, naphthalene, and phenanthrene (Table 6-2). These compounds were detected in the UST oil sample and LNAPL samples from both the Haley Site and the Cornwall site.

Comparison of the LNAPL sample from RITP-7 to the Haley UST oil was inconclusive because neither a petroleum chromatogram nor PCP data are available for the RITP-7 LNAPL sample.

6.2.4. LNAPL Recovery

LNAPL recovery was evaluated to provide insight on LNAPL mobility and recoverability. This information supports the evaluation of remedial technologies and cleanup alternatives in the FS (Section 9.0). Oil recovery efforts have been conducted at the Site since 2001; however, significant thicknesses of LNAPL remain in monitoring wells in the Haley upland as noted above.

The initial LNAPL recovery efforts were manual (bailing). For a limited period between 2001 and 2002, an automated LNAPL pumping and collection system was used to recover approximately 106 gallons. The pumping system consisted of vertical recovery wells, horizontal LNAPL recovery trenches and pneumatic hydrophobic pumps designed to recover only LNAPL (no water). The vertical recovery wells consisted of three 10-inch-diameter wells (RW-1, RW-2, and RW-3) installed in a gravel-filled drainage slot on the upgradient (east) side of the sheet pile barrier (Appendix B, Figure B-5). Four lateral LNAPL recovery trenches were subsequently installed to increase LNAPL recovery, and three additional 4-inch-diameter recovery wells (RW-4, RW-5, and RW-6) and three 2-inch-diameter

monitoring wells (TL-MW-2, TL-MW-3, and TL-MW-4) were also connected to the system. The automated LNAPL recovery system was shut down in mid-2002 due to low overall LNAPL recovery rates.

After the automated LNAPL recovery system was shut down, LNAPL was recovered manually. Manual LNAPL recovery was performed at least once every two weeks from mid-2002 through September 2006, monthly from October 2006 to January 2008, and quarterly from April 2008 until the present, with one exception: LNAPL recovery activities were not conducted from June 2009 to November 2010 due to transfer of property ownership. Approximately 428 gallons of LNAPL was recovered manually during this time frame. In addition, approximately 200 gallons of LNAPL was recovered during the soil agitation pilot test in 2007 (Section 9.3). Collectively, 760 gallons of LNAPL was recovered at the Site through February 2013 (Table 6-3). Detailed LNAPL recovery data are presented in Appendix B (Table B-7).

6.2.5. Upland Smear Zone

Subsurface LNAPL migration and seasonal and tidal groundwater table fluctuations have created a petroleum smear zone in soil (Figures 6-1 and 6-4). The term "smear zone" refers to the upper portion of the saturated soil zone, where LNAPL has been "smeared" as a result of seasonal and tidal fluctuations of the groundwater table. The lateral and vertical extent of the smear zone in the Haley upland was evaluated based on the results of qualitative field screening (Appendix E) of soil samples obtained from explorations. Soil samples exhibiting moderate or heavy sheens were interpreted to be indicative of the smear zone.

The footprint of the smear zone is estimated to extend beneath the majority of the former wood treating and storage areas, and the adjacent (northern) portion of the Cornwall property (Figure 6-4). The smear zone has a maximum thickness of approximately 10 feet near the Haley shoreline and beneath the north-central portion of the Cornwall property. Visual evidence of petroleum hydrocarbons was encountered by others in explorations completed farther south on the Cornwall property (Landau 2013). This petroleum impacted area, referenced in the Cornwall RI report as the "petroleum sheen" area (shown as a dashed red line in Figures 6-1 and 6-4), extends farther south than the limits of the smear zone based on investigations associated with the Haley RI. For the purposes of this report, the smear zone is presumed to extend from the Haley Site to the southern extent of the petroleum sheen area. Additional discussion concerning the potential origin of petroleum impacts in this broader smear zone area is presented in Section 6.3.3.

The interpreted vertical extent of the smear zone is presented in three cross sections (Figures 6-5 through 6-7). The base of the smear zone near the shoreline generally corresponds to the elevation of MLLW.

The distribution and concentrations of other Site-related contaminants in soil and groundwater are strongly influenced by the lateral and vertical extent of prior LNAPL migration and the smear zone, as discussed in the following sections.

6.3. Soil

6.3.1. Overview

The nature and extent of contamination in soil at the Haley Site was evaluated based on samples collected at 91 locations. A total of 179 soil samples were collected at depths ranging from near ground surface to approximately 43 feet bgs. The deepest soil samples were collected near the shoreline because the prism of fill and native soil beneath the Haley upland increases in thickness toward the Bay (Figures 4-5 and 4-6). Soil analytical results are presented in Tables 6-4 through 6-6.

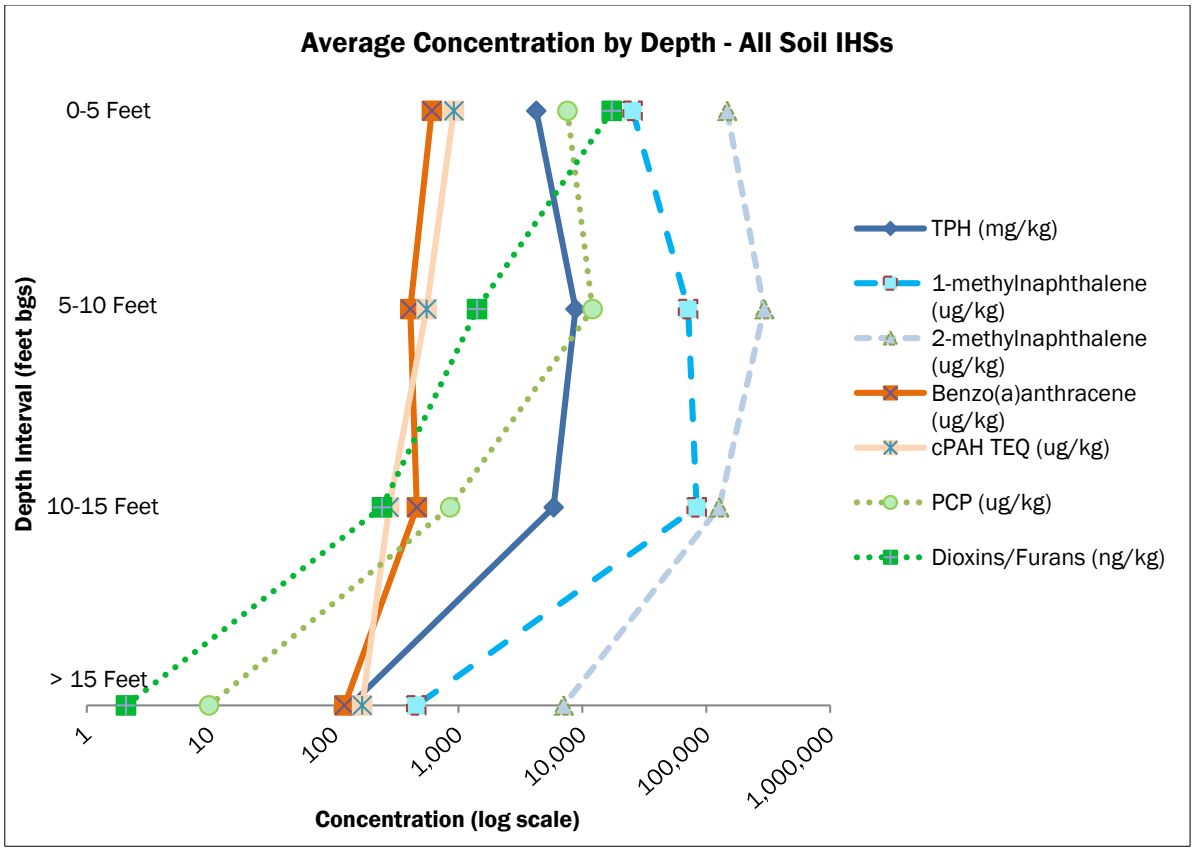
Petroleum hydrocarbons, PAHs (1-methylnaphthalene, 2-methylnaphthalene, phenanthrene and pyrene) and dioxins/furans were the most frequently detected constituents in soil (>80 percent detection frequency) attributed to the Haley Site (Table 5-6). Other PAHs (including cPAHs) and PCP were detected at lower, although still relatively high (>50 percent), frequencies. Several metals also were frequently detected but are not associated with historical Haley operations.

Forty-one constituents exceeded their respective screening levels in one or more soil samples. Nine constituents did not exceed screening levels, and one constituent (4-nitrophenol) has no soil screening level. The constituents with the highest exceedance factors (EF), (EF is defined as the detected concentration of a given constituent divided by its screening level), were dioxins/furans, 1-methylnaphthalene, 2-methylnaphthalene and PCP. The maximum EFs for these constituents ranged from approximately 8,900 to 46,800. Numerous other organic constituents had elevated EFs (maximum EF>10; Table 5-6), likely because some soil samples collected from the smear zone (Figure 6-1) contained residual LNAPL.

As discussed in Section 5.0, the following constituents were selected as soil IHSs for the Haley Site:

- TPH, expressed as the sum of diesel- and heavy oil-range hydrocarbons
- Two noncarcinogenic PAHs (1-methylnaphthalene and 2-methylnaphthalene)
- cPAHs (cPAH TEQ calculated as described in Section 3.6) and the individual cPAH compound benzo(a)anthracene
- PCP
- Dioxins/furans (dioxin TEQ calculated as described in Section 3.6)

The average concentration and EF for each IHS were calculated for four different depth intervals: 0-5 feet, 5-10 feet, 10-15 feet and greater than 15 feet bgs (Table 6-14). The average concentrations by depth interval are presented graphically below.



These data suggest that the soil IHSs can be grouped into two categories based on vertical concentration profile. The first group includes TPH, 1-methylnaphthalene, 2-methylnaphthalene and PCP. The highest average concentrations of these constituents occur in one or both of the depth intervals corresponding to the smear zone (5-10 feet and 10-15 feet; discussed further below). The vertical profile of these constituents likely reflects the downward migration of P-9 carrier oil and coalescence on the groundwater table as LNAPL (discussed further in Section 8.3). The second group of soil IHSs includes benzo(a)anthracene, cPAHs and dioxins/furans. The average concentrations of these constituents in the shallowest depth interval (0-5 feet bgs) are roughly the same as, or higher than, the average concentrations in the deeper intervals. The vertical profile of these constituents likely reflects their more limited mobility, as suggested by their substantially higher Koc values (Table 5-6). These constituents tend to sorb to organics in shallow fill (including wood waste) rather than migrating to greater depths after being released at the Site surface.

Analytical results for the individual soil IHSs are discussed further below. Soil analytical results also are presented in Figures 6-8 through 6-35 for the four depth intervals described above (0-5 feet, 5-10 feet, 10-15 feet and greater than 15 feet bgs). For the depth intervals shallower than 10 feet bgs, only the result for the sample with the highest concentration at each location is displayed if more than one sample was analyzed from that interval. For the two deepest intervals, all analytical results are displayed.

The top of the smear zone (Section 6.2.5) throughout the Site most commonly corresponds to the 5-10 foot depth interval. For this reason, discussions about the lateral extent of screening level

exceedances most often refer to this depth interval. However, it should be noted that the bottom of the smear zone extends into the 10-15 foot depth interval as reflected by the vertical profile data above. At some locations (mostly near the shoreline), the bottom of the smear zone extends to depths slightly below 15 feet bgs (Figure 6-6). Data from Table 6-14 are excerpted to support the discussion of each IHS below.

The following section discusses the nature and extent of individual IHSs in soil at the Haley Site. The cumulative distribution of all IHSs in soil, groundwater and sediment at the Site is discussed later in terms of the CSM (Section 8.0). A broader discussion of contaminant migration pathways between media (soil, groundwater and sediment) is presented in Section 6.8.

6.3.2. Petroleum Hydrocarbons

Petroleum hydrocarbons in upland soil samples were most commonly within the diesel-range, although heavy oil-range hydrocarbons also were detected in many samples. The primary source of diesel-range hydrocarbons at the Haley facility was the carrier oil used as a solvent for PCP in the wood treatment process.

Analytical results for the NWTPH-Dx method primarily reported petroleum hydrocarbons in the diesel-range; heavy oil-range hydrocarbons were reported to a lesser extent. Petroleum hydrocarbons originating from carrier oil versus other petroleum products can be distinguished based on the chromatograms produced by the NWTPH-Dx analysis. Chromatograms were reviewed for 62 representative soil samples obtained from the Site. These samples were collected over a wide geographic area throughout the Haley Site and northern portions of the Cornwall upland.

Petroleum hydrocarbons in 47 percent (29 samples) of the 62 soil samples are characteristic of carrier oil only (Table 6-7). Nineteen percent (12 samples) of the 62 soil samples contained petroleum hydrocarbons characteristic of two product types: carrier oil combined with either lube or motor oil. Another 19 percent (12 samples) of the 62 soil samples contained petroleum hydrocarbons characteristic of only lube oil. The remaining 15 percent (9 samples) of the soil samples contained heavy oil-range hydrocarbons not readily attributable to a specific product, but which appear generally similar to hydraulic or other heavy oils. The petroleum hydrocarbons related to these heavier oils are likely related to release(s) from any of the historical industrial activities, including those that occurred during the former lumber mill era.

This analysis confirmed that carrier oil is the dominant type of petroleum present in the Haley upland, as it was identified in approximately two-thirds of the representative soil samples evaluated. The geographic footprint of the carrier oil is widely distributed across the Haley upland and the northeastern portion of the Cornwall upland (e.g., in explorations CL-SB-101, CL-SB-102, CL-SB-103, CL-MW-1D, CL-MW-101, CL-MW-102 and CL-MW-103; Figures 6-8 through 6-11). Soil in some of these explorations also contains other petroleum products in areas of overlap (see below).

Petroleum hydrocarbons related to lube oil or other heavy oils are interspersed throughout the Site. They occur most commonly in the northern portion of the Haley property (e.g., explorations HS-MW-6, HS-SB-104, HS-MW-9, HS-MW-16, HS-HA-5 and HS-MW-17); the eastern portion of the Haley property (e.g., explorations HS-MW-4, HS-DP-6, HS-DP-9); the north-central portion of the Cornwall property

(e.g., explorations CL-MW-101 and CL-MW-103); and the area of Haley and Cornwall overlap near the shoreline (e.g., explorations TL-B-5, TL-HA-2, TL-B-4 and TL-MW-10).

TPH was detected in soil at a maximum concentration of 66,105 mg/kg (EF=43). Elevated TPH concentrations of this magnitude typically indicate potentially mobile LNAPL, which has been observed at numerous locations in the Haley upland (Section 6.2). TPH exceeded the screening level in 39 percent of the 121 soil samples analyzed for petroleum (Table 5-6). The exceedances in soil were detected at 36 upland exploration locations (Figures 6-8 through 6-11).

The lateral extent of screening level exceedances generally coincides with the petroleum smear zone (Figure 6-1), which is best represented by analytical results from the 5-10 foot depth interval (Figure 6-9). Screening level exceedances in this depth interval occur across much of the Haley upland and the northeastern portion of the Cornwall upland.

The northern lateral extent of TPH screening level exceedances has been identified and generally coincides with the northern end of the former large drying shed (near the present-day City storm drain, Figure 6-9). The southern lateral extent of TPH screening level exceedances has been generally identified. The southernmost TPH exceedance on the Cornwall property was encountered in boring AF-MW02, approximately 550 feet south of the Haley property boundary. TPH concentrations were less than the screening level in boring AF-SB02 (Figure 3-2b), approximately 240 feet south of AF-MW02. The extent of TPH screening level exceedances in the northeastern portion of the Cornwall property is not bounded to the west by analytical data because the landfill refuse horizon was not sampled. Refuse horizons typically are not sampled in landfill investigations.

Elevated TPH concentrations in soil generally coincide with the estimated extent of the petroleum smear zone (Section 6.2.5; Figures 6-4 through 6-11). TPH concentrations are generally greatest in the shoreline (LNAPL Plume) area and the northern portion of the Cornwall property, south of the former Haley wood treatment equipment. Petroleum hydrocarbon occurrence on the Cornwall property is discussed further below.

The vertical profile of TPH concentrations in soil reflects the presence of the smear zone in the 5-10 foot depth interval, with decreasing concentrations at greater depths. Average TPH concentrations and associated EFs are summarized by depth below.

TPH PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (mg/kg)	Average EF
0-5	4,242	3
5-10	8,800	6
10-15	5,864	4
>15	133	<1
Screening Level	1,534	1.0

At depths between 10 and 15 feet, the greatest TPH concentrations were detected near the shoreline (Figure 6-10). This likely is because the thicknesses and depths of the smear zone are greatest near the shoreline as a result of tidally-influenced groundwater fluctuations and water table depression caused by LNAPL accumulation (Figures 6-1 through 6-7; Section 6.2.2). The deepest TPH screening level exceedance near the shoreline is at 12 feet bgs (TL-MW-10; Figure 6-10). TPH was detected at substantially lower concentrations (less than the screening level) between 12 and 29 feet bgs near the shoreline (Figure 6-11). A single deeper detection in this area slightly above the analytical reporting limit (9.5 mg/kg at 43 feet bgs in TL-MW-13) may be a sampling anomaly. Soil analytical results for depths greater than 15 feet bgs are not available in the eastern portion of the Site because the thickness of soil/fill above bedrock in this area is limited.

6.3.3. Haley/Cornwall Overlap Area

The extent of the petroleum smear zone (Figure 6-1) on the northern portion of the Cornwall property is referred to in the Cornwall RI report (Landau 2013) as the "overlap" area. The Cornwall RI report attributes petroleum impacts in this area to the southerly migration of petroleum hydrocarbons from the former Haley facility. This interpretation conflicts with the inferred present-day groundwater flow direction beneath the southern end of the Haley property, which is toward the shoreline and slightly away from the Cornwall property (Figures 4-8, 4-9 and 4-13, Appendix B Exhibit B-2 and Cornwall RI Figure 4-11). It is postulated in the Cornwall RI report, however, that historical groundwater flow directions in the past may have been different for two reasons: due to groundwater mounding caused by the discharge of process wastewater to the Haley wastewater seepage pit (Figure 6-1), or due to tidal influences associated with a shoreline that was historically located farther east than the present-day shoreline.

Groundwater level measurements and the groundwater flow model developed for the Haley RI (Section 4.2.2) support that groundwater beneath the southern portion of the Haley property does not currently flow in a southerly direction onto the Cornwall property. Southerly flow onto the Cornwall property is prevented by a groundwater mound located beneath the northeastern corner of the Cornwall property (Figures 4-8 and 4-9). The groundwater mound appears to be caused by the infiltration of stormwater at this location (Figure 2-2). Therefore, the Haley Site groundwater level measurements and groundwater flow model corroborate the present-day groundwater flow pattern described in the Cornwall RI report, and argue against the southerly transport of LNAPL and dissolved-phase constituents from the Haley property onto the northern portion of the Cornwall property.

It is possible that groundwater flow directions in the past were different than today. If different, the most likely cause would have been potential groundwater mounding associated with operation of the Haley wastewater seepage pit. It is less likely that past groundwater flow directions were influenced by historical shoreline location. Historical aerial photographs indicate that the shoreline was already located west of the Inner Harbor Line in the northern portion of the Cornwall property by 1953 (Appendix A, Figure A-6). The wood treatment facilities appear in the southeast corner of the Haley property in the 1953 photograph, but are not present in the 1950 photograph. Consequently, historical tidal fluctuations likely had little, if any, influence on groundwater flow direction beneath the Haley wood treatment process area.

Alternative explanations exist that could explain the extent of the petroleum smear zone in the northern portion of the Cornwall property including petroleum associated with historical lumber mill facilities (Figure 2-3). For example, petroleum releases could have occurred on the Cornwall property. Additionally, as discussed in Sections 2.2.7, oil was reportedly dumped in the area leased by Brooks in the late 1960s, after closure of the Cornwall landfill (DNR 1970). In addition to the Haley upland west of the Inner Harbor Line, the areas leased by Brooks at that time included areas west and south of the Haley property which includes the Haley-Cornwall overlap area; however, the specific location of the reported dumping could not be confirmed based on RI research.

Further investigation into the potential source(s) of petroleum impacts in the overlap area was not conducted as part of this RI. The nature and extent of petroleum hydrocarbons in this area have been sufficiently evaluated to develop compatible remedies for the Cornwall and Haley sites, as discussed in Section 8.0.

6.3.4. Noncarcinogenic PAHs

Two noncarcinogenic PAHs, 1-methylnaphthalene and 2-methylnaphthalene, were selected as IHSs because of their mobility and widespread occurrence in soil and groundwater. 2-Methylnaphthalene was one of the most prevalent compounds detected in samples of UST oil and LNAPL collected from the Haley upland and the northeastern portion of the Cornwall upland (Table 6-2; Section 6.2.3). Analytical results for 1-methylnaphthalene were not reported by the laboratory for the UST oil and LNAPL samples.

1-METHYLNAPHTHALENE

This IHS was detected in soil at a maximum concentration of 870,000 µg/kg (EF=20,714). Elevated concentrations of methylnaphthalenes are collocated with elevated TPH concentrations because residual LNAPL is the source of the methylnaphthalenes. Seventy-one percent of the 61 soil samples analyzed for 1-methylnaphthalene contained this compound at concentrations exceeding the screening level (Table 5-6). The exceedances in soil were detected at 18 upland exploration locations (Figures 6-12 through 6-15).

Similar to TPH, the lateral extent of screening level exceedances for 1-methylnaphthalene generally coincides with the footprint of the petroleum smear zone (Figure 6-13). Screening level exceedances in the 5-10 foot depth interval occur across much of the Haley upland and the northeastern portion of the Cornwall upland. Screening level exceedances are generally bounded to the north, but not to the south on the Cornwall property. The concentration of 1-methylnaphthalene in soil at AF-SB02 (the location of this exploration is shown in Figure 3-2b) exceeds the screening level, although it is substantially lower than at AF-MW02 farther north. The extent of screening level exceedances beneath the northeastern portion of the Cornwall upland is not bounded to the west by chemical analytical results because the landfill refuse horizon was not sampled.

Concentrations of 1-methylnaphthalene are highest between 5 and 15 feet bgs (Figures 6-13 and 6-14), and decrease below 15 feet bgs (Figure 6-15). Average 1-methylnaphthalene concentrations and EFs in soil are summarized below by depth interval.

1-METHYLNAPHTHALENE PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (µg/kg)	Average EF
0-5	25,443	606
5-10	71,396	1,700
10-15	83,627	1,991
>15	456	11
Screening Level	42	1.0

Screening level exceedances were detected at depths as great as 28 feet bgs near the shoreline (e.g., TL-MW-14). A single deeper exceedance (43 feet bgs in TL-MW-13) appears to be a sampling anomaly. As with other constituents, analytical results for soil depths greater than 15 feet are not available in the eastern portion of the Site because bedrock is shallower in this area.

2-METHYLNAPHTHALENE

This IHS was detected in soil at a maximum concentration of 1,920,000 µg/kg (EF=46,829). Seventy-seven percent of the 95 soil samples analyzed for 2-methylnaphthalene exceeded the screening level (Table 5-6). More soil samples were analyzed for 2-methylnaphthalene than 1-methylnaphthalene. As a result, the widespread occurrence of this constituent is exhibited by exceedances in soil at 38 upland exploration locations (Figures 6-16 through 6-19).

The lateral extent of 2-methylnaphthalene screening level exceedances generally coincides with the footprint of the petroleum smear zone (Figure 6-17). The affected area covers most of the Haley upland and the northeastern portion of the Cornwall upland. The highest concentrations were detected in the LNAPL Plume area (near the shoreline), and likely reflect the presence of residual LNAPL in the soil samples. Several UST oil and LNAPL samples contained elevated concentrations of 2-methylnaphthalene (Table 6-2). Screening level exceedances for 2-methylnaphthalene are generally bounded to the north, but not to the south on the Cornwall property. The concentration of 2-methylnaphthalene in soil at AF-SB02 (Figure 3-2b) exceeds the screening level, although it is substantially lower than at AF-MW02 farther north. Screening level exceedances beneath the northeastern portion of the Cornwall upland are not bounded to the west by chemical analytical results because the landfill refuse horizon was not sampled.

Concentrations of 2-methylnaphthalene are highest between 0 and 15 feet bgs, and decrease below 15 feet bgs as summarized below.

2-METHYLNAPHTHALENE PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (µg/kg)	Average EF
0-5	147,305	3,593
5-10	293,659	7,162
10-15	127,070	3,099
>15	7,051	171
Screening Level	41	1.0

Concentrations of 2-methylnaphthalene exceed the screening level at most locations tested in the 10-15 foot depth interval (Figure 6-18), and at depths up to 28 feet bgs at two locations near the shoreline (TL-MW-13 and TL-MW-14; Figure 6-19). A single deeper exceedance (43 feet bgs in TL-MW-13) appears to be a sampling anomaly.

6.3.5. Carcinogenic PAHs

BENZO(A)ANTHRACENE

Benzo(a)anthracene was detected in soil at a maximum concentration of 5,600 µg/kg (EF=862). Fifty-seven percent of the 108 soil samples analyzed for this constituent exceeded the screening level (Table 5-6). The exceedances in soil were detected at 35 upland exploration locations (Figures 6-20 through 6-23).

Similar to other compounds, the lateral extent of benzo(a)anthracene screening level exceedances (Figure 6-21) covers most of the Haley upland and the northeastern portion of the Cornwall upland. The screening level exceedances are generally bounded to the north (HS-MW-15) and south (AF-MW02), although analytical reporting limits for some soil samples are greater than the screening level (Figure 6-21). Benzo(a)anthracene was detected at a concentration greater than the screening level farther south on the Cornwall property (AF-SB02; Figure 3-2b); however, impacted soil at this location does not appear to be contiguous with impacts located farther north based on concentration gradients. The extent of screening level exceedances beneath the northeastern portion of the Cornwall upland is not bounded to the west by chemical analytical results because the landfill refuse horizon was not sampled.

Compared to the constituents discussed above, average benzo(a)anthracene concentrations vary less by depth. Additionally, as summarized below, the average concentration is greatest in the shallowest depth interval (0-5 feet bgs) rather than the smear zone (5-10 feet bgs).

BENZO(A)ANTHRACENE PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (µg/kg)	Average EF
0-5	610	94
5-10	408	63
10-15	461	71
>15	120	19
Screening Level	6.5	1.0

Benzo(a)anthracene concentrations decrease at depths greater than 15 feet bgs; however, concentrations exceed the screening level at depths up to 23 feet bgs near the shoreline (e.g., TL-MW-13 and TL-MW-14; Figure 6-23). Benzo(a)anthracene was not detected at depths greater than 23 feet bgs.

cPAHs

cPAHs, expressed as a TEQ concentration, was detected in soil at a maximum concentration of 6,272 µg/kg (EF=46). Twenty-eight percent of the 107 soil samples analyzed for this constituent group exceeded the screening level (Table 5-6). The exceedances in soil were detected at 22 upland exploration locations (Figures 6-24 through 6-27).

The geographic footprint of cPAH screening level exceedances covers much of the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-25); however, cPAH concentrations less than the screening level are interspersed throughout this footprint. Screening level exceedances for this IHS are generally bounded to the north and south. Similar to benzo(a)anthracene, a cPAH exceedance farther south on the Cornwall property (AF-SB02; Figure 3-2b) does not appear to be contiguous with exceedances farther north. The extent of screening level exceedances beneath the northeastern portion of the Cornwall upland is not bounded to the west by chemical analytical results because the landfill refuse horizon was not sampled.

The magnitude of screening level exceedances is substantially less for cPAH than for other IHSs; the EF exceeds 10 in only three soil samples. The average concentration of cPAH TEQ is highest in the shallowest depth interval (0-5 feet bgs) and decreases with increasing depth, as shown below.

cPAH TEQ PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (µg/kg)	Average EF
0-5	917	7
5-10	553	4
10-15	275	2
>15	167	1.2
Screening Level	137	1.0

The broadest footprint of screening level exceedances occurs in the 5-10 foot depth interval (Figure 6-25). Several exceedances occur near the shoreline in the 10-15 foot depth interval (Figure 6-26). Only two exceedances occur at greater depths (17 feet bgs in TL-MW-11 and 22 feet bgs in TL-MW-15; Figure 6-27). The cPAH concentration at 17 feet bgs in TL-MW-11 (2,265 µg/kg) was the second highest cPAH concentration detected in Site soil. This soil sample was collected near the bottom of the sheet pile barrier, beneath the LNAPL Plume, and coincides with the approximate bottom of the petroleum smear zone (Figure 6-6). cPAHs were detected in soil at 43 feet bgs near the shoreline (TL-MW-13; Figure 6-27); as previously discussed, the constituent detections reported at 43 feet bgs in TL-MW-13 are believed to be a sampling anomaly.

6.3.6. Pentachlorophenol

PCP was detected in soil at a maximum concentration of 221,000 µg/kg (EF=35,079). Fifty-seven percent of the 147 soil samples analyzed for this constituent exceeded the screening level (Table 5-6). PCP exceeded the screening level at more upland exploration locations (51) than any other soil IHS (Figures 6-28 through 6-31).

PCP concentrations exceed the screening level across most of the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-29). The broadest footprint of PCP screening level exceedances occurs in the 5-10 foot depth interval (Figure 6-29), similar to other IHSs. PCP exceedances are less extensive in the 10-15 foot depth interval (Figure 6-30), although the sample coverage also is less extensive in this depth interval. In shallow soil (0-5 foot depth interval), PCP concentrations are greatest in the vicinity of the former wood treatment process equipment (retort, storage tanks, etc.) and the shoreline (former drip pads and existing LNAPL Plume).

The PCP screening level exceedances are generally bounded to the north and south (Figure 6-29); however, the exceedances beneath the northeastern portion of the Cornwall upland are not bounded to the west by chemical analytical results because the landfill refuse horizon was not sampled. PCP was detected at a concentration exceeding the screening level in a shallow soil sample (SP-J in Table 6-4) collected east of the Site during a previous study (Edde 1985a); the previous study referred to

this sample as a "background" sample. Sample SP-J is not shown in Figure 6-28 because its specific location is uncertain.

The average concentration of PCP varies significantly with depth, and is greatest in the 5-10 foot depth interval. The average PCP concentration decreases substantially at depths greater than 10 feet bgs, as summarized below.

PCP PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (µg/kg)	Average EF
0-5	7,565	1,201
5-10	12,074	1,917
10-15	857	136
>15	9.7	1.5
Screening Level	6.3	1.0

In the vicinity of the shoreline, PCP concentrations detected in soil deeper than 12 feet bgs are substantially lower than concentrations detected in shallower soil. There are only three screening level exceedances in soil deeper than 15 feet bgs (20 feet bgs in TL-MW-16, and 18 and 23 feet bgs in TL-MW-13; Figure 6-31). Detected PCP concentrations are less than the screening level at depths greater than 23 feet bgs.

6.3.7. Dioxins/Furans

Dioxins/furans were detected in soil at a maximum TEQ concentration of 98,550 nanograms per kilogram (ng/kg, or parts per trillion). This represents an EF of 7,580 (Table 5-6). Eighty-five percent of the 13 samples analyzed for dioxins/furans exceeded the screening level. The exceedances in soil were detected at 12 upland exploration locations (Figures 6-32 through 6-35).

Concentrations of dioxins/furans exceeded the screening level in all five shallow soil samples analyzed for this constituent. These shallow soil samples were collected from widely dispersed locations across the Haley upland (Figure 6-32). Additionally, the highest dioxin/furan concentrations were detected in the 0-5 foot depth interval; average concentrations decrease by roughly an order of magnitude or more in each successive deeper interval, as summarized below.

DIOXIN TEQ PROFILE IN SOIL

Depth Interval (feet bgs)	Average Concentration (ng/kg)	Average EF
0-5	20,487	1,576
5-10	1,412	108
10-15	241	18
>15	2.07	<1
Screening Level	13	1.0

The highest dioxins/furans concentration (98,550 ng/kg TEQ) was in shallow soil at HS-MW-19, near the former wood treatment process equipment and wastewater seepage pit (Figure 6-32). At the depth interval corresponding to the petroleum smear zone (5-10 feet bgs), dioxin/furan concentrations are greatest in soil near the LNAPL Plume (TL-MW-2; Figure 6-33). Analytical results for deeper soil at TL-MW-14 (Figures 6-34 and 6-36) are informative relative to the vertical profile of dioxins/furans near the shoreline. The dioxins/furans concentration exceeds the screening level at 15 feet bgs at this location (241 ng/kg TEQ), but is less than the screening level at a depth of 28 feet bgs (3.3 ng/kg TEQ).

The primary source of dioxins/furans at the Site is the wood treatment solution historically used at the Haley facility. The wood treatment solution consisted of P-9 carrier oil that contained approximately 5 percent PCP (Edde 1985a), which historically contained dioxins/furans as an impurity (EPA 1997b). Analyses of UST oil samples obtained from the Haley facility UST detected both PCP and dioxins/furans (Table 6-2). Dioxins/furans also were detected in samples of oil obtained from the beach oil seep in 2000, and in a sample of LNAPL obtained from monitoring well TL-MW-3. Monitoring well TL-MW-3 is located within the footprint of the LNAPL Plume upgradient of the sheet pile barrier (Figure 6-1). More details concerning the components of the carrier oil are presented in Section 6.2.

6.4. Groundwater

6.4.1. Overview

The nature and extent of groundwater contamination at the Haley Site has been interpreted using the most recent and geographically extensive data set available, as discussed in Section 3.6. This data set was derived from groundwater sampling events conducted between May and September 2012 to support the Haley and Cornwall RIs. Selected Cornwall wells were sampled twice during this period; other Cornwall wells, and wells on the Haley upland, were sampled once during this period. Groundwater analytical results from these sampling events are presented in Table 6-8. Chemical analytical results for previous Haley groundwater sampling events are included in Appendix B (Table B-3). A discussion of earlier (pre-2012) groundwater data and concentration trends over time is presented in Section 6.4.6.

The 2012 groundwater data discussed in this section were collected from 32 monitoring wells distributed throughout the Haley upland and Cornwall upland (Figures 6-36 through 6-42). The well network includes both shallow and deep monitoring wells (Table 3-2). The shallow monitoring wells generally have longer screens positioned at or near the groundwater table. The deep monitoring wells have shorter screens positioned below the groundwater table, and are generally collocated with shallow wells. The shallow/deep well pairs are located near the shoreline.

Certain PAHs (1-methylnaphthalene, acenaphthene and phenanthrene) and dioxins/furans were detected most frequently in groundwater; these constituents were detected in 80 percent or more of the samples tested (Table 5-5). Detection frequencies for diesel-range hydrocarbons, 2-methylnaphthalene and fluorene were lower, although still relatively high (>50 percent). Other frequently detected constituents are not associated with historical Haley operations, or were detected at concentrations less than their respective screening levels.

Twenty-two constituents exceeded their respective screening levels in one or more groundwater samples. Twenty-one constituents were not detected above screening levels; the TPH fractions analyzed (gasoline-, diesel-, and heavy oil-range hydrocarbons) do not have groundwater screening levels for protection of marine surface water. The greatest EFs were reported for 1- and 2-methylnaphthalene, cPAHs and PCP. The EF for these constituents ranged from 33 to 45. Mercury also had a high EF (800), but this constituent exceeded the screening level only on the Cornwall site, and is associated with that site, not the Haley Site.

As discussed in Section 5.0, the following constituents were selected as groundwater IHSs for the Haley Site (Table 5-5):

- Three noncarcinogenic PAHs (1-methylnaphthalene, 2-methylnaphthalene and acenaphthene)
- cPAHs and the individual cPAH compound benzo(a)anthracene
- PCP
- Dioxins/furans

TPH (sum of diesel- and heavy oil-range hydrocarbons) was not selected as an IHS in groundwater because a screening level protective of marine surface water does not exist for this chemical mixture. However, TPH was evaluated based on its individual constituents. All detections of diesel- and heavy oil-range hydrocarbons co-occurred with PAH exceedances, including 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, benzo(a)anthracene, and cPAHs. This surrogate approach captures the extent and magnitude of TPH impacts in groundwater at the Site.

The 2012 groundwater analytical results for IHSs are displayed in Figures 6-36 through 6-42; for wells sampled twice in 2012, the higher detection of the two results is depicted in these figures. The most recent groundwater quality data available for inland Cornwall monitoring wells AF-MW01 and AF-MW02 were obtained in July 2004; the July 2004 data for these wells are presented in Figures 6-36 through 6-38. Figures 6-36 through 6-41 include colors that show the estimated lateral extent of IHS concentrations relative to screening levels (i.e., the spatial distribution of EFs). The estimated EF (color) boundaries show general areas of the Site where EFs are estimated to be 1 or less (green), between 1 and 10 (yellow), and 10 or greater (red). The color patterns are based on analytical results for shallow monitoring well data only, and exclude the 2004 data for Cornwall wells AF-MW01 and AF-MW02. Other information also was used to interpret the extent of the color patterns, such as the geographic footprint of the petroleum smear zone, the distribution of other IHSs in groundwater, and whether LNAPL was present in the well at the time of sampling.

The following sections discuss the nature and extent of individual IHSs in groundwater at the Haley Site. The cumulative distribution of all IHSs in groundwater and soil at the Site is discussed later in terms of the CSM (Section 8.0). Contaminant migration pathways between media (soil, groundwater and sediment) are discussed in Section 6.8.

6.4.2. Noncarcinogenic PAHs

Three noncarcinogenic PAHs (1-methylnaphthalene, 2-methylnaphthalene and acenaphthene) were selected as IHSs because of their mobility and widespread occurrence in soil and groundwater. As previously indicated, 2-methylnapthalene and naphthalene were two of the most prevalent

compounds detected in samples of UST oil and LNAPL collected from the Site (Section 6.3.2); 1-methylnaphthalene was not reported for the UST oil/LNAPL analyses.

1-METHYLNAPHTHALENE

This IHS was detected in groundwater at a maximum concentration of 520 µg/L (EF=35). Elevated concentrations of methylnaphthalenes are collocated with elevated TPH concentrations because residual LNAPL is the source of the methylnaphthalenes. Thirty percent of the 50 groundwater samples analyzed for 1-methylnaphthalene contained this constituent at concentrations exceeding the screening level (Table 5-5). The exceedances were detected in 15 monitoring wells on the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-36).

The lateral extent of 1-methylnaphthalene screening level exceedances in groundwater (Figure 6-36) generally corresponds with the geographic footprint of the petroleum smear zone in soil. Constituent concentrations are greatest (170 to 520 µg/L) in the central portion of the wood treatment and storage area, with the single greatest concentration detected in the vicinity of the former drip pads (well TL-MW-12; Figure 6-1). The footprint of screening level exceedances is bounded laterally to the north, and to the south on the western and eastern boundaries of the Cornwall upland (Figure 6-36). There are no recent (2012) groundwater data to estimate the southerly extent of the screening level exceedance at CL-MW-101. Monitoring well AF-MW02 was not available for use during the 2012 sampling events. When this well was last sampled (in 2004), the concentration of 1-methylnaphthalene in AF-MW02 (120 µg/L) exceeded the screening level. It is anticipated, however, that considerable attenuation has occurred since 2004, as suggested by the lateral extent of 2-methylnaphthalene (discussed below). For this reason, the southerly extent of 1-methylnaphthalene in this portion of the Cornwall upland is interpreted to not extend as far south as AF-MW02.

Concentrations of 1-methylnaphthalene decrease substantially with depth; concentrations are less than the screening level in three of the deep wells screened below LNAPL accumulation areas near the shoreline (TL-MW-11, TL-MW-15 and TL-MW-16). One of these wells (TL-MW-11) is screened below the center of the sheet pile barrier (Figures 6-6 and 6-7), which was designed to allow groundwater to flow under the barrier while preventing migration of the shallower LNAPL. Concentrations of 1-methylnaphthalene are greater than the screening level in two deep monitoring wells near the shoreline (TL-MW-13 and TL-MW-14). The tops of the screen intervals in these wells are approximately 43 feet and 27 feet bgs, respectively (Figure 4-7; Table 3-2). These wells are screened a short distance above bedrock, in the native marine unit. Additional discussion about the vertical profile of contaminants in groundwater, soil and sediment at the Site is presented in Section 6.8.

2-METHYLNAPHTHALENE

This IHS was detected in groundwater at a maximum concentration of 680 µg/L (EF=45). Fifteen percent of the 74 groundwater samples analyzed for 2-methylnaphthalene contained this constituent at concentrations exceeding the screening level (Table 5-5). The exceedances were detected in 11 monitoring wells on the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-37).

Similar to 1-methylnaphthalene, the greatest concentrations of this constituent occur within the geographic footprint of the petroleum smear zone. These elevated concentrations (170 to 680 µg/L)

are present in the central portion of the wood treatment and storage area, with the single greatest concentration detected in the vicinity of the former drip pads (well TL-MW-12). The lateral extent of 2-methylnaphthalene screening level exceedances in groundwater is bounded to the north and south (Figure 6-37).

Monitoring well AF-MW02 was not available for sampling in 2012, as discussed above. When well AF-MW02 was last sampled (in 2004), 2-methylnaphthalene was detected at a concentration exceeding the screening level (97 µg/L). In 2012, the 2-methylnaphthalene plume did not extend as far south as CL-MW-101 (Figure 6-37). This suggests a substantial decrease in the southerly extent of the 2-methylnaphthalene plume, assuming the 2004 detection in AF-MW02 was associated with the Haley plume rather than a separate Cornwall source.

This constituent was detected in all deep monitoring wells adjacent to the Haley and Cornwall shorelines. However, concentrations exceeded the screening level in only one of these deep wells (TL-MW-13; Figure 6-37). Additional discussion about the vertical profile of contaminants in groundwater, soil and sediment at the Site is presented in Section 6.8.

A comparison of 2-methylnaphthalene exceedances in soil and groundwater (Figures 6-17 and 6-37) suggests that the soil screening levels used in this RI, which are based on protection of groundwater, are overly conservative (stringent) in some upland areas. 2-Methylnaphthalene concentrations exceed the soil screening level in the northern portion of the Cornwall property (Figure 6-17), yet there are only limited exceedances of the groundwater screening level in this area (Figure 6-37).

ACENAPHTHENE

Acenaphthene was detected in groundwater at a maximum concentration of 24 µg/L (EF=7). Twenty-four percent of the 50 groundwater samples analyzed for acenaphthene contained this constituent at concentrations exceeding the screening level (Table 5-5). The exceedances were detected in 12 monitoring wells on the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-38).

The greatest concentrations of this constituent coincide with the geographic footprint of the petroleum smear zone, similar to the constituents described above. Elevated concentrations are present in the central portion of the wood treatment and storage area, with the single greatest concentration (24 µg/L at well HS-MW-4) detected in the former wood storage area near the north end of the former tram tracks. The tram tracks were used to remove treated wood from the retort (Section 2.2.5).

Acenaphthene concentrations in groundwater are, in general, one to two orders of magnitude lower than concentrations of 1-methylnaphthalene and 2-methylnaphthalene. This disparity also exists in soil, and may reflect the relative concentrations of these compounds in LNAPL at the Site (Table 6-2; Section 6.2.2). Concentrations of 2-methylnapthalene were two orders of magnitude greater than concentrations of acenaphthene in UST oil/LNAPL samples (Table 6-2). Concentrations of 1-methylnaphthalene were not reported for UST oil/LNAPL samples.

The footprint of acenaphthene screening level exceedances in groundwater is bounded to the north, and to the south along the western and eastern boundaries of the Cornwall upland (Figure 6-38). The concentration of acenaphthene in CL-MW-101 only marginally exceeds the screening level,

suggesting that the footprint of screening level exceedances does not extend much farther south in this area.

This constituent was detected in all deep monitoring wells adjacent to the Haley and Cornwall shorelines. However, detected concentrations exceeded the screening level in only one of these deep monitoring wells (TL-MW-14). Additional discussion about the vertical profile of contaminants in groundwater, soil and sediment at the Site is presented in Section 6.8.

6.4.3. Carcinogenic PAHs

BENZO(A)ANTHRACENE

Benzo(a)anthracene was detected in groundwater at a maximum concentration of 0.58 µg/L (EF=32). Twenty percent of the 50 groundwater samples analyzed for benzo(a)anthracene contained this constituent at concentrations exceeding the screening level (Table 5-5). The exceedances were detected in ten monitoring wells on the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-39).

Detected concentrations of this constituent exceed the screening level in the vicinity of the former drip pads and LNAPL Plume near the shoreline, in wood storage areas in the central portion of the Haley facility, and at two isolated locations near the eastern boundary of the Cornwall property (Figure 6-39); a third isolated exceedance near the northern Site boundary is discussed below. The estimated lateral extent of screening level exceedances (Figure 6-39) is based on the conservative assumption that several samples with elevated reporting limits (CL-MW-103, HS-MW-7 and HS-MW-19) exceed the screening level. This is a reasonable assumption, considering the presence of LNAPL and elevated concentrations of other constituents in these areas. The two screening level exceedances near the eastern boundary of the Cornwall property (Figure 6-39) may not be geographically isolated as shown, but rather, may only appear to be isolated as a result of elevated reporting limits in surrounding samples.

In addition to the two apparent isolated exceedances discussed above, a third isolated exceedance of benzo(a)anthracene was detected near the northern Site boundary in 2012 (well HS-MW-16). This exceedance does not appear to be related to historical Site activities, based on analytical results farther south for this and other constituents, the known locations of historical Haley operations, and the fact that the petroleum hydrocarbons detected in soil at HS-MW-16 (Table 6-7) did not resemble diesel-range hydrocarbons.

Benzo(a)anthracene concentrations in groundwater are considerably lower than concentrations of the IHSs described above, likely for two reasons: benzo(a)anthracene concentrations in soil in the petroleum smear zone are lower than the other IHSs (Figure 6-21), and benzo(a)anthracene partitions into groundwater less readily, as indicated by its relatively Koc value (360,000 L/kg) compared to, for example, 1-methylnaphthalene (2,528 L/kg; Table 5-5). Benzo(a)anthracene concentrations in LNAPL samples also are less than those reported for naphthalenes (Table 6-2).

The footprint of benzo(a)anthracene screening level exceedances in groundwater is bounded to the north and south, although the analytical reporting limits for samples obtained from the Cornwall shoreline monitoring wells exceeded the screening level. The concentration of this constituent exceeds the screening level in only one deep monitoring well (TL-MW-11) near the shoreline; well

TL-MW-11 is screened below the center of the sheet pile barrier (Figures 6-6 and 6-7). Additional discussion about the vertical profile of contaminants in groundwater, soil and sediment at the Site is presented in Section 6.8.

6.4.3.1. cPAHs

Total cPAHs, calculated as a TEQ, were detected in groundwater at a maximum concentration of 0.59 µg/L (EF=33). Sixteen percent of the 50 groundwater samples analyzed for cPAHs contained this constituent at concentrations exceeding the screening level (Table 5-5). The exceedances were detected in eight monitoring wells on the Haley upland and the northeastern portion of the Cornwall upland (Figure 6-40).

The lateral and vertical extent of cPAHs screening level exceedances is similar to that described above for benzo(a)anthracene, except there is only one apparent isolated exceedance of cPAHs (well CL-MW-6, in the northeast corner of the Cornwall property). Other observations of benzo(a)anthracene occurrence discussed above also generally apply to cPAHs.

6.4.4. Pentachlorophenol

PCP was detected in groundwater at a maximum concentration of 100 µg/L (EF=33). Only two percent (one sample) of the 50 groundwater samples analyzed for PCP contained this constituent at a concentration exceeding the screening level (Table 5-5). The single exceedance was detected in well CL-MW-6 in the northeast corner of the Cornwall property (Figure 6-41).

Excluding the single screening level exceedance (CL-MW-6), the greatest concentrations of PCP occur in the former wood treatment area and LNAPL Plume area. PCP concentrations are generally one to two orders of magnitude higher in these areas (e.g., HS-MW-19 and TL-MW-7) than in areas to the north (e.g., HS-MW-15) and south (e.g., CL-MW-1). The geographic footprint of PCP screening level exceedances in groundwater is extremely small relative to the footprint of PCP exceedances in soil (Figure 6-29), which is based on the protection of groundwater.

TL-MW-14 was the only deep well near the Haley shoreline with a detected PCP concentration of the same order of magnitude as shallower samples collected in the former wood treatment area and LNAPL Plume area (PCP was not detected in TL-MW-11, but at an elevated reporting limit). PCP concentrations are relatively low (<0.1 µg/L) in other deep wells adjacent to the Haley shoreline (TL-MW-13, TL-MW-15 and TL-MW-16).

6.4.5. Dioxins/Furans

Dioxins/furans were detected in all five groundwater samples tested (Figure 6-42). Each result represents a screening level exceedance because the screening level for this constituent is based on the PQL. Dioxin/furan concentrations expressed as a TEQ ranged from 3.99 to 243 picograms per liter (pg/L). The lowest concentrations were detected south and north of the former wood treatment and storage areas (wells CL-MW-101 and HS-MW-15, respectively) and in deep shoreline well TL-MW-16. The greatest dioxin/furan concentrations were detected near the center of the former Haley facility (HS-MW-13) and in the LNAPL Plume area (TL-MW-11). Deep well TL-MW-11 is screened below the center of the sheet pile barrier, beneath the LNAPL Plume. Shallow well HS-MW-13 also is located in an area where LNAPL in a monitoring well has been observed in the past.

Several lines of evidence suggest that the dioxins/furans detected in these upland monitoring wells are associated with suspended solids in the groundwater samples, as opposed to existing in the dissolved phase. Dioxins/furans have exceptionally low solubilities (Section 7.3.4). Solubilities decrease as the molecular weight increases with the more heavily chlorinated homolog groups. The congeners detected most frequently and at the greatest concentrations in groundwater samples from the Site belong to the heptachlorinated and octachlorinated homolog groups. For example, OCDD was detected in the groundwater samples at concentrations that are two to three orders of magnitude greater than its solubility (74 pg/L). This behavior is indicative of groundwater samples containing entrained particulates with strongly sorbed dioxins/furans.

Turbidity of the groundwater samples also supports that dioxins/furans occur as suspended particulates that are an artifact of the sampling process. As shown in the table below, groundwater samples containing the highest concentrations of dioxins/furans (HS-MW-13 and TL-MW-11), excluding equivalency factors, had relatively higher turbidity readings. The sample containing the highest turbidity (HS-MW-15) had a relatively low total dioxins/furans concentration. HS-MW-15, however, is located outside of the most heavily impacted area. Suspended solids in groundwater samples obtained from this portion of the Site would not be expected to contain high concentrations of dioxins/furans.

Sample Location	Sample Date	Total Dioxins/furans Concentration[1] (pg/L)	Turbidity (NTU)	2-Methyl-naphthalene Concentration (ug/L)
CL-MW-101	7/18/12	2,848	7.2	1.8
TL-MW-16	7/17/12	3,773	4.3	0.13
HS-MW-13	5/9/12	23,404	57.7	200
TL-MW-11	5/8/12	125,280	12.4	2
HS-MW-15	5/9/12	3,893	87.3	0.13U

Notes:

[1] Total dioxins/furans based on the sum of detected homolog groups (Appendix K, Table K-2); toxic equivalency factors have not been applied.

While dioxins/furans are extremely hydrophobic and generally stable when adsorbed to organics in soil and sediment, they are capable of mobilizing in the presence of cosolvents that may exist in groundwater or LNAPL (Section 7.3.4). Some of the more mobile compounds characteristic of wood-treating sites, including 2-methylnaphthalene, have been shown to mobilize dioxins/furans by cosolvent processes (Puri et al. 1990). The concentration of 2-methylnaphthalene (and other PAHs) was elevated in one of the monitoring wells (HS-MW-13) that contained dioxins/furans at an elevated concentration, as shown in the table above. However, this well also had an elevated turbidity. The potential cosolvent relationship between elevated 2-methylnaphthalene and increased dioxin/furan concentrations was not observed at the monitoring well that contained the greatest dioxins/furans concentration (TL-MW-11). These data suggest that cosolvent processes are not substantially influencing dioxins/furans mobility in groundwater at the Site.

In summary, dioxins/furans detected in Site groundwater appear to be an artifact of the sampling process, which unavoidably entrains minute quantities of suspended solids. Data do not suggest that

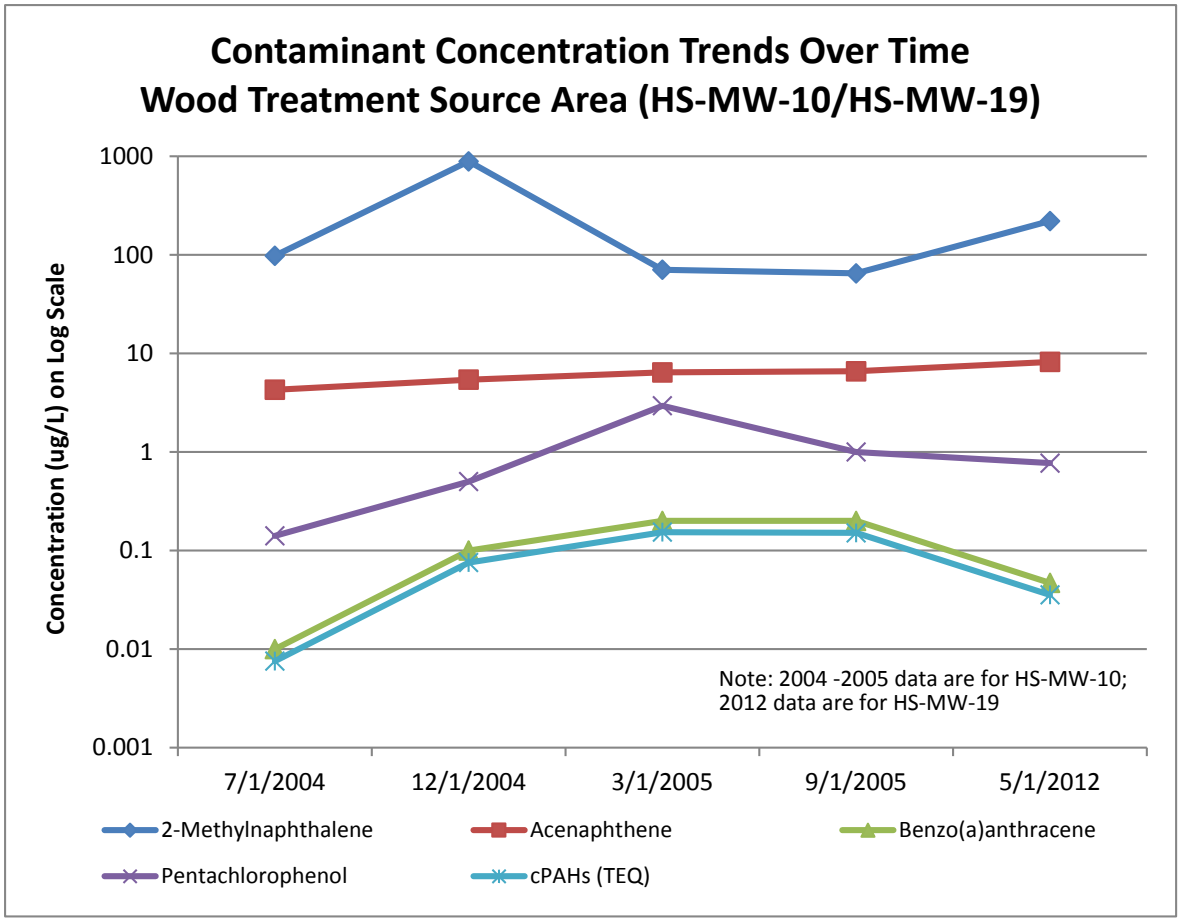
the dioxins/furans are mobile in shallow groundwater either as a dissolved phase contaminant or a cosolvent mixture.

6.4.6. Historical Groundwater Quality

The previous discussion of groundwater contaminants (Sections 6.4.1 through 6.4.5) is based primarily on groundwater quality data collected during the 2012 supplemental investigation. This section summarizes observations of seasonal and long-term contaminant trends for five of the seven groundwater IHSs; historical data are generally not available for 1-methynaphthalene and dioxins/furans.

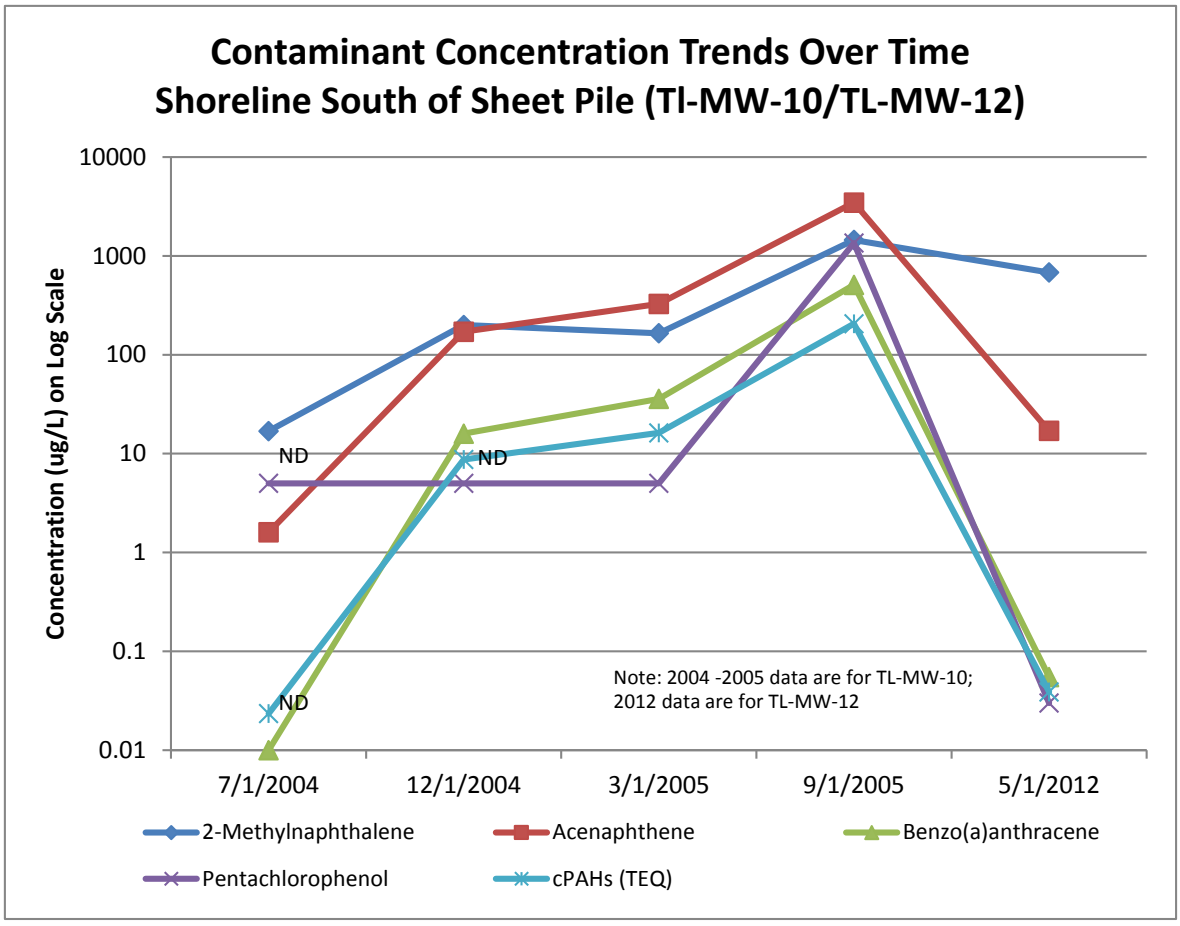
Available historical groundwater analytical data for Haley RI wells include four seasonal sampling events in 2004/2005 for wells distributed widely across the Haley upland (Table B-3, Appendix B). Three areas of the Haley upland (the wood treatment source area, the shoreline south of the sheet pile barrier and deep shoreline well TL-MW-11) were selected for this discussion of historical trends to support the understanding of groundwater conditions over time. These three areas were selected for discussion because they are representative of the source area and the upland/marine transition area, and because there are considerable groundwater data through time in these areas.

Wood Treatment Source Area: Groundwater quality near the former above- and below-ground wood treatment equipment can be evaluated using data collected from HS-MW-10 (2004-2005) and HS-MW-19 (2012) (Figure 3-1). The most recent (2012) groundwater contaminant concentrations

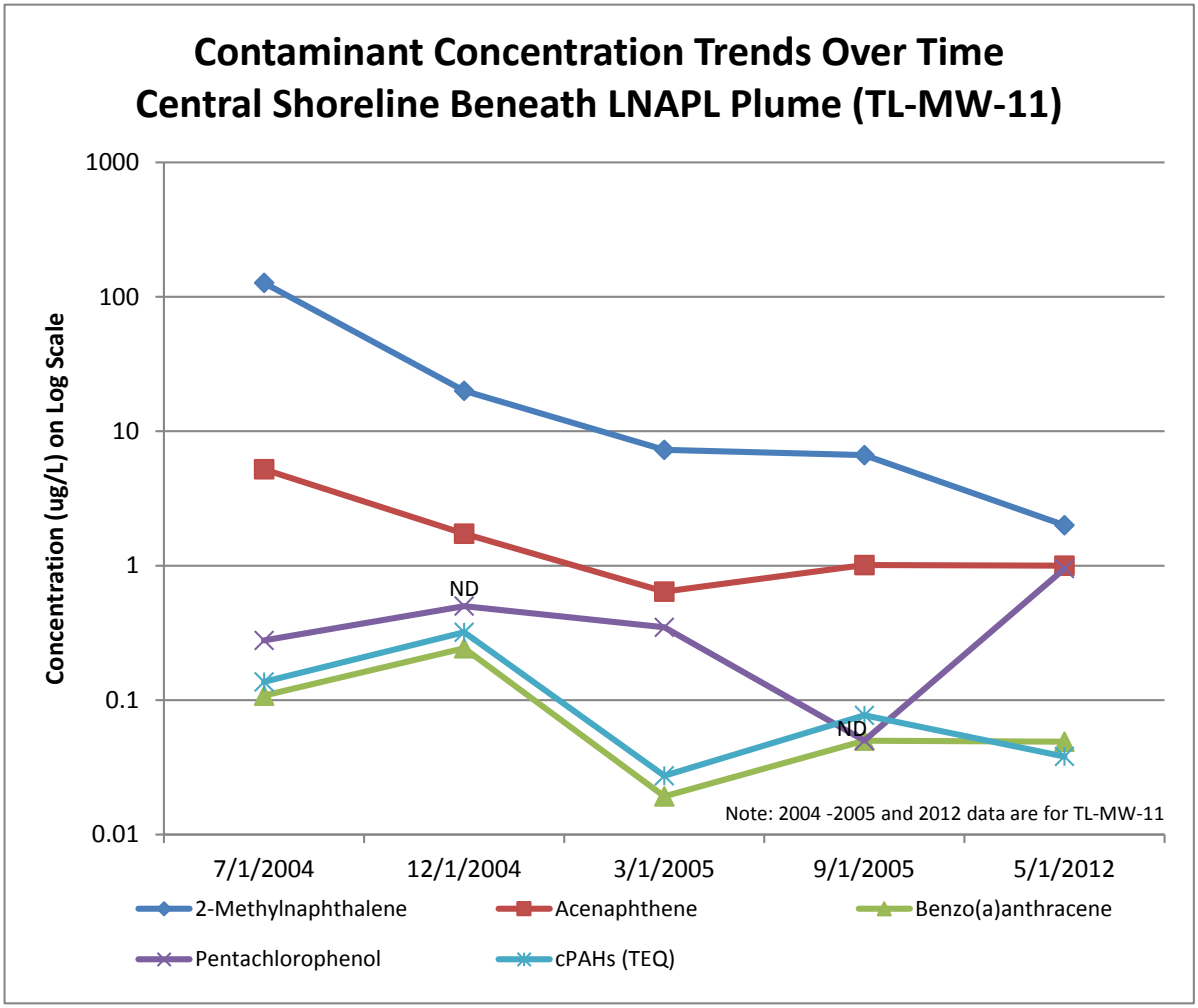


for the IHSs in this area are within the historical low and high concentration ranges from 2004 and 2005 except for acenaphthene; however, none of the IHSs show a substantial or consistent change between 2004 and 2012, or any obvious seasonal trends based on the 2004-2005 data.

Shoreline South of Sheet Pile Barrier: Groundwater quality at the shoreline south of the sheet pile barrier is represented by data collected from TL-MW-10 (2004-2005) and TL-MW-12 (2012) (Figure 3-1). IHS concentrations in this area generally increased during the consecutive quarterly samping events between July 2004 and September 2005; however, contaminant concentrations in 2012 were less than they were during most of the previous (2004-2005) sampling events, with the exception of 2-methylnaphthalene. No clear seasonal trends are apparent based on the data.



Central Shoreline Beneath the LNAPL Plume: Concentrations of IHSs beneath the LNAPL Plume are represented by data collected from deep shoreline monitoring well TL-MW-11 in 2004-2005 and 2012. IHS concentrations generally decreased over time at this location, with the exception of PCP, which was detected at an elevated concentration during the 2012 sampling event.



6.5. Soil Vapors

Analytical results and summary statistics for the Haley RI soil vapor data set are presented in Table 6-9; these data were obtained in 2005. The eight locations selected for soil vapor sampling (Figure 6-43) were near previous explorations where elevated concentrations of diesel-range petroleum hydrocarbons and VOCs including naphthalene and 2-methylnaphthalene had been identified in soil and groundwater samples. These locations are broadly distributed within the geographic footprint of the petroleum smear zone on the Haley upland. Soil vapor samples were obtained at a depth of approximately 5 feet bgs, which corresponds to the lower portion of the vadose zone and the upper portion of the smear zone. The soil vapor data allow a qualitative comparison between subsurface impacts and the presence/absence and magnitude of petroleum-related volatiles in soil vapor. This information is used in the FS to evaluate remedial alternatives.

Based on the limited number of analytes evaluated in soil vapor (Table 6-9), IHSs were not selected for soil vapor as was done for soil, groundwater and sediment. The nature and extent of contaminants in soil vapor were evaluated by reviewing the summary statistics for the analytes and comparing the detected analyte concentrations to soil vapor screening levels. Soil vapor screening levels are discussed in Section 5.0 and presented in Table 6-9 as MTCA Method B shallow soil vapor screening levels. The analytical results for the individual soil vapor analytes are discussed below.

6.5.1. Aliphatic and Aromatic Hydrocarbons

The highest concentrations of aromatic and aliphatic hydrocarbons were detected in soil vapor samples HS-SV-2, HS-SV-3, HS-SV-5, HS-SV-6 and HS-SV-7 (Figure 6-43). These samples were collected in the lower portion of the vadose zone at locations just above where LNAPL is present in monitoring wells (HS-SV-2) and/or where elevated concentrations of diesel-range petroleum hydrocarbons and VOCs including naphthalene and 2-methylnaphthalene are present (HS-SV-1 through HS-SV-8) in soil and/or groundwater. The highest EF for aliphatic and aromatic hydrocarbon analytes was calculated for the C9 to C12 aliphatic hydrocarbons (EF=700).

The concentrations of aromatic and aliphatic hydrocarbons detected in soil vapor samples HS-SV-1 and HS-SV-4 were less than screening levels; both of these locations are within the footprint of the smear zone and in areas where LNAPL is intermittently present in monitoring wells. The results for these two soil vapor samples are indicative of the potential variability in soil vapor concentrations, even in areas where similar concentrations might be expected based on available soil and groundwater analytical data.

6.5.2. BETX

BETX compounds have the lowest maximum EFs relative to other soil vapor analytes, ranging from <1 (toluene) to 66 (benzene) (Table 6-9). One or more BETX compounds were detected in soil vapor samples HS-SV-2, HS-SV-3, HS-SV-5, HS-SV-6, HS-SV-7 and HS-SV-8 at concentrations greater than their respective soil vapor screening levels. BETX data in soil and groundwater samples were reviewed to evaluate the potential correlations between BETX data in soil vapor and BETX data in soil and groundwater: three of the soil vapor samples were collected near explorations with BETX data in soil and/or groundwater samples.

- HS-SV-3 is near two wells (HS-MW-7 and HS-MW-11) where groundwater samples were analyzed for BETX. Benzene (5.13 µg/L, which is greater than the groundwater screening level of 2.4 µg/L for indoor air vapor intrusion) and ethylbenzene (161 µg/L, which is less than the groundwater screening level of 2,800 µg/L for indoor air vapor intrusion) were detected in the June 2004 HS-MW-11 groundwater sample, and xylenes (0.13 µg/L, which is less than the groundwater screening level of 310 µg/L for indoor air vapor intrusion) were detected in the May 2012 HS-MW-7 groundwater sample (Appendix B, Table B-3).
- HS-SV-5 is near well HS-MW-10, where BETX compounds were not detected in the soil sample obtained from 12 feet bgs (Table 6-4), and where only benzene (1.76 µg/L, less than the groundwater screening level of 2.4 µg/L protective of indoor air vapor intrusion) was detected in the June 2004 groundwater sample (Appendix B, Table B-3).
- HS-SV-7 is near boring HS-DP-6, where BETX compounds were not detected in the soil sample obtained from 8 feet bgs (Table 6-4).

Although the soil vapor, soil and groundwater sampling results from these locations constitute a very small data set, the data suggest that BETX concentrations in soil vapor are variable, and not strongly correlated to BETX values in soil and groundwater that would be predicted to exceed screening levels protective of indoor air vapor intrusion.

6.5.3. PAHs

2-methylnaphthalene, an IHS in soil, groundwater and sediment, was detected in four of the eight soil vapor samples. A MTCA Method B shallow soil vapor screening level is not available for 2-methylnaphthalene because inhalation toxicity factors for this compound are not provided by EPA. However, naphthalene (discussed below) is an effective surrogate for 2-methylnaphthalene exposure, as concentrations of these two analytes appear to be correlated (Table 6-9), and naphthalene is toxic (and potentially carcinogenic) via the inhalation pathway.

Naphthalene has the highest maximum EF of the soil vapor analytes (EF=1,857). Naphthalene is a sediment IHS, but it is not an IHS in soil or groundwater because its geographic footprint in these media is similar to 1- and 2-methylnaphthalene. Naphthalene was detected in seven of the eight soil vapor samples, and the detected concentrations in five of the samples exceeded the soil vapor screening level.

The soil vapor data for aromatic and aliphatic hydrocarbons, BETX and naphthalene suggest that the extent of soil vapor screening level exceedances for indoor air may be correlated with the extent of the smear zone and LNAPL Plume where lighter fractions of petroleum hydrocarbons are present.

6.5.4. Other Petroleum-Related Analytes

Methyl tertiary-butyl ether (MTBE) and 1,3-butadiene were not detected in the soil vapor samples. The analytical reporting limits for 1,3-butadiene were greater than the soil vapor screening level; however, there are no known historical sources of MTBE or 1,3-butadiene at the Site, so these volatile constituents are not expected to be present. MTBE was analyzed in select soil samples and not detected; MTBE was not analyzed in groundwater samples. 1,3-Butadiene was not analyzed in either soil or groundwater samples.

6.6. Sediment

6.6.1. Overview

The description of the nature and extent of contamination in the aquatic lands adjacent to the Haley upland is based on the results of sediment sampling at 60 locations: 31 surface sediment sampling locations and 28 subsurface sediment coring locations. The sediment samples were collected as part of this RI and studies by others (Hart Crowser 2009b; Anchor 2003). Surface sediment samples were collected from the biologically active zone, defined in Bellingham Bay as 0 to 12 cm (0.39 feet) below the mudline (RETEC 2006). Some surface sediment samples from earlier studies extended to depths of 15 cm (0.5 feet); these samples were incorporated in this RI and are considered representative of the biologically active zone. Subsurface samples consisted of 1- to 3-foot long core sections (most commonly 2 feet long) collected at various depths beginning at and below the mudline. The top of the core sections ranged from the sediment surface (mudline) to 16 feet below the mudline. Subsurface samples collected from 0 to 2 feet below the mudline are considered indicative of subsurface sediment quality, because this interval extends considerably deeper than

the biologically active zone. Samples were analyzed for conventional parameters (grain size, total organic carbon), inorganic and organic constituents regulated under SMS, and those constituents without promulgated criteria but related to upland historical releases (e.g., petroleum hydrocarbons and dioxins/furans). A qualitative assessment of the amount and type of wood waste or debris was made at the time of collection for all surface and subsurface samples obtained in 2012; casual observations of the presence or absence of wood waste or debris were available for most samples collected prior to 2012.

Of the 46 constituents or constituent groups (e.g., total LPAHs) analyzed in sediment, 30 exceeded sediment screening levels (Section 5.1.1) in one or more samples, 9 did not exceed screening levels, 4 (chlorinated benzenes and hexachlorobutadiene) were not detected in any samples, and 3 (diesel- and heavy oil-range petroleum hydrocarbons and 1,3-dichlorobenzene) have no sediment screening levels. Six constituents (1,4-dichlorobenzene, two phthalates, n-nitrosodiphenylamine, benzoic acid and benzyl alcohol) were rarely detected (detection frequencies ≤10 percent). A summary of constituent detection frequencies, screening-level exceedance frequencies, and maximum EFs for sediment is presented in Table 5-4.

The most frequently detected constituents in sediment (>90 percent detection frequency) were dioxins/furans, TPH, three PAHs (fluoranthene, phenanthrene and pyrene), cPAHs, LPAHs, HPAHs, and mercury. Other frequently detected constituents (>50 percent detection frequency) included other PAHs, dibenzofuran, PCP and bis(2-ethylhexyl)phthalate. Mercury was detected more frequently (94 percent) than most other constituents; however, mercury is a contaminant of concern for the Whatcom Waterway site and there are no known sources of mercury at the Haley Site. Phthalates are likely associated with the Cornwall site; there are no known sources of phthalates associated with wood treatment at the Haley Site. The only phthalate exceedances in sediment occurred near the boundary between the Haley Site and Cornwall site within an area of overlapping contamination. Mercury and phthalates are not discussed further with respect to the nature and extent of sediment contamination at the Haley Site.

Of the frequently detected constituents that have sediment screening levels, each constituent exceeded its respective screening level in less than 20 percent of the samples analyzed for the constituent except for dioxins/furans (88 percent), cPAHs (78 percent), TPH (39 percent) and PCP (46 percent). The constituent with the greatest maximum EF was cPAH (EF=575). Other frequently detected constituents with maximum EFs greater than 10 included TPH (EF = 192), dioxins/furans (EF = 140), 2-methylnaphthalene (EF = 18), phenanthrene (EF=28), acenaphthene (EF=44), 2-methylnaphthalene (EF=18), fluoranthene (EF=14), total LPAH (EF = 12), dibenzofuran (EF = 19), and PCP (EF=47).

As discussed in Section 5.0, the following constituents were selected as sediment IHSs for the Haley Site:

- Petroleum hydrocarbons (TPH)
- 2-Methylnaphthalene
- Acenaphthene
- Naphthalene

- Phenanthrene
- Benzo(a)anthracene
- Fluoranthene
- cPAHs
- PCP
- Dioxins/furans

The following sections discuss the nature and extent of the sediment IHSs in Bellingham Bay adjacent to the Haley upland.

6.6.2. Sediment Chemical Analytical Results

6.6.2.1. TOTAL PETROLEUM HYDROCARBONS

The distribution of TPH in surface sediment is depicted in Figure 6-44. TPH was detected in all 14 surface sediment samples analyzed for this constituent (Table 6-10), at concentrations ranging from 54 to 50,000 mg/kg (average = 6,860 mg/kg[9]). Six of the TPH detections in surface sediment exceeded the screening level. TPH EFs for surface sediment samples ranged from <1 to 192.

The highest TPH concentrations in surface sediment were detected in three samples collected in the intertidal zone west of the upland LNAPL Plume (samples PS-7, PS-16 and PS-20; Figure 6-44). This is the same general area where petroleum sheens or seeps have been observed on the upper portion of the beach. TPH concentrations reported in subtidal surface sediment samples are several orders of magnitude lower than those detected in the intertidal samples. Average detected TPH concentrations and EFs in surface sediment in the intertidal and subtidal zones are summarized below.

DISTRIBUTION OF TPH DETECTED IN SURFACE SEDIMENT BY TIDAL ZONE

Tidal Zone	Average TPH Concentration (mg/kg DW)	Average TPH EF
Intertidal (+10 to -4 feet NAVD88)	12,764	49
Shallow Subtidal (-4 to -15 feet NAVD88)	129	<1
Deeper Subtidal (deeper than -15 feet NAVD88)	77	<1
Screening Level	260	--

DW = dry weight EF = exceedance factor TPH = total petroleum hydrocarbons

Seventy-three subsurface sediment samples from 23 coring locations were analyzed for TPH; 17 of the coring locations had at least one subsurface sediment sample with a TPH concentration exceeding the screening level (Table 6-11). TPH concentrations in subsurface sediment were generally lower than in surface sediment (Figure 6-45). Detected TPH concentrations in subsurface sediment samples ranged from 8.3 to 5,480 mg/kg (average = 578 mg/kg); EFs in these samples

[9] This average is strongly influenced by three intertidal "hot spots." Removal of the three hot spot samples results in an average TPH value of 535 mg/kg.

ranged from <1 to 21. The maximum TPH concentration in subsurface sediment was detected in the 2-4 foot depth interval (below the mudline) at intertidal zone locations IZ-MW-2 and IZ-MW-3, west of the upland LNAPL Plume (Figure 6-45).

The average TPH concentrations and EFs in subsurface sediment are summarized below by tidal zone and sample depth interval. The highest average TPH concentrations in the intertidal and shallow subtidal zones were detected in the 2-4 foot depth interval.

DISTRIBUTION OF TPH DETECTED IN SUBSURFACE SEDIMENT BY TIDAL ZONE AND SAMPLE DEPTH INTERVAL

Tidal Zone and Depth Interval (feet below mudline)	Average TPH Concentration (mg/kg DW)	Average TPH EF
Intertidal (+10 to -4 feet NAVD88)		
0-2	1,017	4
2-4	2,465	9
4-6	414	1.6
8-14	120	<1
Shallow Subtidal (-4 to -15 feet NAVD88)		
0-2	334	1.3
2-4	514	2
4-6	653	3
9-18	90	<1
Deeper Subtidal (deeper than -15 feet NAVD88)		
0-2	214	<1
2-4	42	<1
4-6	138	<1
12-14	ND	<1
Screening Level	260	--

DW = dry weight EF = exceedance factor ND = not detected TPH = total petroleum hydrocarbons

Exceedances of the TPH screening level in subsurface sediment occurred only at sampling locations in the intertidal and shallow subtidal zones. The maximum depth at which the screening level was exceeded was 6.8 feet below the mudline (RGH-SC-07); deeper sediment samples were not available to identify the maximum depth of screening level exceedance at this location. At other locations where deeper intervals were analyzed, TPH exceedances were no deeper than 8 feet, and often shallower (as shallow as 2 feet below the mudline).

6.6.2.2. PAHs

Six individual PAHs were selected as IHSs for sediment; four are LPAHs and two are HPAHs (Section 5.0). For regulatory decision-making, as specified in SMS, PAHs are evaluated on a carbon-normalized basis. However, carbon normalization is applied over a relatively limited range of organic carbon concentrations (0.5 to 3.5 percent total organic carbon in sediment). Multiple sediment samples at the Haley Site fell outside this range. Sediment samples with organic carbon

concentrations outside of this range are compared to LAET values on a dry-weight basis. Tables 6-10 and 6-11 present both the TOC-normalized and dry-weight PAH concentrations for each sample and highlight exceedances of the appropriate screening level (i.e., TOC-normalized or dry-weight) based on the organic carbon concentration in the sample. However, for consistency with and comparison to other media discussed here in Section 6.0, the sediment PAH concentrations and EFs presented within this section are on a dry-weight basis.

Figure 6-46 shows the magnitude of PAH contamination (i.e., EFs for IHSs) in surface sediment; the magnitude of PAH contamination in subsurface sediment is shown in Figure 6-47. The average PAH concentrations and EFs in surface and subsurface sediment are summarized below by tidal zone and sample depth interval. The distribution of the individual PAHs in sediment is discussed in the following sections.

DISTRIBUTION OF PAHs DETECTED IN SURFACE AND SUBSURFACE SEDIMENT BY TIDAL ZONE AND SAMPLE DEPTH INTERVAL

Tidal Zone and Depth Interval (feet below mudline)	Average Concentration and (Average EF) (concentrations in ug/kg DW)					
	2-Methyl-naphthalene	Acenaph-thene	Naphthalene	Phenanthrene	Benzo(a) anthracene	Fluoranthene
Intertidal (+10 to -4 feet NAVD88)						
Surface	44 (<1)	1,875 (4)	302 (<1)	5,816 (4)	1,206 (<1)	2,837 (1.7)
0-2	482 (<1)	1,516 (3)	409 (<1)	4,178 (3)	1,188 (<1)	2,762 (1.6)
2-4	274 (<1)	745 (1.5)	393 (<1)	2,753 (1.8)	1,220 (1.0)	2,201 (1.4)
4-6	1,439 (2)	892 (1.8)	1,941 (<1)	1,157 (<1)	433 (<1)	1,2(<1)
8-14	186 (<1)	76 (<1)	1,437 (<1)	334 (<1)	220 (<1)	354 (<1)
Shallow Subtidal (-4 to -15 ft NAVD88)						
Surface	118 (<1)	73 (<1)	362 (<1)	1,120 (<1)	526 (<1)	1,369 (<1)
0-2	53 (<1)	81 (<1)	131 (<1)	660 (<1)	173 (<1)	674 (<1)
2-4	65 (<1)	32 (<1)	672 (<1)	289 (<1)	184 (<1)	664 (<1)
4-6	121 (<1)	82 (<1)	234 (<1)	810 (<1)	562 (<1)	1,113 (<1)
9-18	ND	ND	190 (<1)	98 (<1)	54 (<1)	140 (<1)
Deeper Subtidal (deeper than -15 feet NAVD88)						
Surface	ND	ND	23 (<1)	103 (<1)	127 (<1)	222 (<1)
0-2	23 (<1)	4.4 (<1)	34 (<1)	52 (<1)	51 (<1)	105 (<1)
2-4	6 (<1)	ND	48 (<1)	31 (<1)	9 (<1)	45 (<1)
4-6	45 (<1)	ND	48 (<1)	70 (<1)	29 (<1)	100 (<1)
12-14	ND	ND	ND	ND	ND	ND
Screening Level (LAET)	670	500	2,100	1,500	1,300	1,700

EF = exceedance factor DW = dry weight ND = not detected
LAET = lowest apparent effects threshold; equivalent to the Sediment Cleanup Objective (SCO)

2-METHYLNAPHTHALENE

Concentrations of 2-methylnaphthylene in surface sediment samples ranged from 15 to 430 µg/kg (average = 87 µg/kg); the maximum concentration was detected at subtidal zone location COB-SS-05. None of the detected concentrations in surface sediment exceeded the screening level.

Concentrations of 2-methylnaphthalene in subsurface sediment samples ranged from 4.4 to 12,000 µg/kg (average = 394 µg/kg). The screening level was exceeded in samples collected at three intertidal zone locations (COB-SC-08, 4-6 feet below mudline; COB-SC-01, 0-2 and 2-4 feet below mudline; and IZ-MW-3, 2-4 feet below mudline). The EFs for these samples ranged from 1.3 to 18 (Figure 6-47).

ACENAPHTHENE

Concentrations of acenaphthene in surface sediment samples ranged from 4 to 11,000 µg/kg (average = 1,239 µg/kg). The screening level was exceeded in samples collected at three intertidal zone locations (PS-4, PS-13 and PS-20). The EFs for these samples ranged from 4 to 44 (Figure 6-46).

Concentrations of acenaphthene in subsurface sediment samples ranged from 4.4 to 5,000 µg/kg (average = 489 µg/kg). The screening level was exceeded in samples collected at six intertidal zone locations; the maximum concentration was detected at COB-SC-08 (4-6 feet below mudline). The EFs for these samples ranged from 2 to 16 (Figure 6-47).

NAPHTHALENE

Concentrations of naphthalene in surface sediment samples ranged from 5.1 to 1,700 µg/kg (average = 313 µg/kg); the maximum concentration was detected at subtidal zone location COB-SS-05. None of the detected concentrations in surface sediment exceeded the screening level.

Concentrations of naphthalene in subsurface sediment samples ranged from 2.3 to 8,600 µg/kg (average = 639 µg/kg). The screening level was exceeded in samples collected at three intertidal and one subtidal zone locations (COB-SC-08, 4-6 feet below mudline; COB-SC-02, 4-6 feet and 8-10 feet below mudline; IZ-MW-1, 4-5 feet below mudline; and RGH-SC-07, 2-4 feet below mudline). The EFs for these samples ranged from 1.6 to 4 (Figure 6-47).

PHENANTHRENE

Phenanthrene was detected in all surface sediment samples analyzed for this constituent, at concentrations ranging from 11 to 42,000 µg/kg (average = 2,845 µg/kg). The screening level was exceeded in samples collected at three intertidal and two subtidal zone locations (COB-SS-04, COB-SS-05, PS-13, PS-20 and PS-4). The EFs for these samples ranged from 1.5 to 28 (Figure 6-46).

Concentrations of phenanthrene in subsurface sediment samples ranged from 2.8 to 13,000 µg/kg (average = 1,231 µg/kg). The screening level was exceeded in samples collected at 11 locations; the maximum concentration was detected at COB-SC-01 (0-2 feet below mudline). The EFs for these samples ranged from 1.1 to 9 (Figure 6-47).

BENZO(A)ANTHRACENE

Benzo(a)anthracene was detected in all surface sediment samples analyzed for this constituent, at concentrations ranging from 7.5 to 10,000 µg/kg (average = 729 µg/kg). The screening level was

exceeded in samples collected at four locations (COB-SS-04, COB-SS-05, PS-4 and PS-13). The EFs for these samples ranged from 1.1 to 8 (Figure 6-46).

Concentrations of benzo(a)anthracene in subsurface sediment samples ranged from 5.2 to 4,900 µg/kg (average = 471 µg/kg). The screening level was exceeded in samples collected at three intertidal and one subtidal zone locations (COB-SC-02, 0-2 feet below mudline; IZ-MW-2, 2-4 feet below mudline; IZ-MW-3, 2-4 feet below mudline; and RGH-SC-06, 4-6 feet below mudline). The EFs for these samples ranged from 1.6 to 3 (Figure 6-47).

FLUORANTHENE

Fluoranthene was detected in all surface sediment samples analyzed for this constituent, at concentrations ranging from 17 to 23,000 µg/kg (average = 1,755 µg/kg). The screening level was exceeded in samples collected at four locations (COB-SS-04, COB-SS-05, PS-4 and PS-13). The EFs for these samples ranged from 2.1 to 14 (Figure 6-46).

Concentrations of fluoranthene in subsurface sediment samples ranged from 1.7 to 11,000 µg/kg (average = 1,091 µg/kg). The screening level was exceeded in samples collected at ten locations; the maximum concentration was detected at COB-SC-02 (0-2 feet below mudline). The EFs for these samples ranged from 1.1 to 6 (Figure 6-47).

6.6.2.3. CARCINOGENIC PAHs

The distribution of cPAHs in surface sediment is depicted in Figure 6-48. cPAHs were detected in all 27 surface sediment samples analyzed for this constituent (Table 6-10), at concentrations ranging from 17 to 12,080 µg/kg (average = 973 µg/kg). All surface sediment samples exceeded the screening level based on natural background (21 µg/kg), which is based on a survey of pristine areas within Puget Sound (Ecology 2015b).

The cPAH TEQ EFs for surface sediment samples ranged from 1.1 to 575. The highest concentration of cPAHs in surface sediment was detected in the intertidal area bayward of the upland LNAPL Plume (sample PS-13; Figure 6-48). This sample location is near the 2001 sediment removal area where a petroleum seep had been observed in 2000 (Figure 3-2A).

The concentrations of cPAHs in subtidal surface sediment samples are generally an order of magnitude lower than those detected in the intertidal surface sediment samples. The average cPAH concentrations and EFs in surface sediment in the intertidal and subtidal zones are summarized below.

DISTRIBUTION OF cPAHs DETECTED IN SURFACE SEDIMENT BY TIDAL ZONE

Tidal Zone	Average cPAH TEQ Concentration (µg/kg DW)	Average cPAH EF
Intertidal (+10 to -4 feet NAVD88)	1,477	70
Shallow Subtidal (-4 to -15 feet NAVD88)	781	37
Deeper Subtidal (deeper than -15 feet NAVD88)	161	8
Screening Level	21	--

DW = dry weight EF = exceedance factor cPAH = carcinogenic polycyclic aromatic hydrocarbons

Seventy-four subsurface sediment samples from 27 coring locations were analyzed for cPAHs; all the coring locations had at least one subsurface sediment sample with a concentration of cPAHs exceeding the screening level (Table 6-11). Concentrations of cPAHs in subsurface sediment were generally lower than in surface sediment (Figure 6-49). Concentrations of cPAHs in subsurface sediment samples ranged from 1.1 to 6,045 µg/kg (average = 508 µg/kg); EFs in these samples ranged from <1 to 288. The maximum concentrations of cPAHs in subsurface sediment were detected in the 0-2 foot depth interval (below the mudline) at intertidal zone location COB-SC-02, west of the upland LNAPL Plume (Figure 6-49); a similar concentration also occurred at another sample location in the upper intertidal zone (IZ-MW-2) in the 2-4 foot depth interval.

The average cPAH concentrations and EFs in subsurface sediment are summarized below by tidal zone and sample depth interval. The highest average concentrations of cPAHs in the intertidal and shallow subtidal zones were detected in the top four feet of sediment.

DISTRIBUTION OF cPAHs DETECTED IN SUBSURFACE SEDIMENT BY TIDAL ZONE AND SAMPLE DEPTH INTERVAL

Tidal Zone and Depth Interval (feet below mudline)	Average cPAH TEQ Concentration (µg/kg DW)	Average cPAH EF
Intertidal (+10 to -4 feet NAVD88)		
0-2	1,519	72
2-4	1,638	78
4-6	396	19
8-14	303	14
Shallow Subtidal (-4 to -15 feet NAVD88)		
0-2	307	15
2-4	277	13
4-6	613	29
9-18	65	3
Deeper Subtidal (deeper than -15 feet NAVD88)		
0-2	46	2
2-4	13	<1
4-6	41	2
12-14	ND	<1
Screening Level	21	--

DW = dry weight EF = exceedance factor cPAH = carcinogenic polycyclic aromatic hydrocarbons

The screening level for cPAHs was exceeded in all but a few subsurface sediment samples. The deepest sample exceeding the screening level for cPAHs (COB-SC-01) was obtained from a depth of 12 feet below the mudline in the intertidal zone.

6.6.2.4. PENTACHLOROPHENOL

Concentrations of PCP in surface sediment samples ranged from 26 to 4,700 µg/kg (average = 591 µg/kg). Sediment samples collected at most intertidal and nearshore subtidal locations exceeded the SCO screening level of 100 µg/kg (Figure 6-50). Average PCP concentrations and EFs in surface sediment in the intertidal and subtidal zones are summarized below.

DISTRIBUTION OF PCP DETECTED IN SURFACE SEDIMENT BY TIDAL ZONE

Tidal Zone	Average PCP Concentration (µg/kg DW)	Average PCP EF
Intertidal (+10 to -4 feet NAVD88)	1,072	11
Shallow Subtidal (-4 to -15 feet NAVD88)	315	3
Deeper Subtidal (deeper than -15 feet NAVD88)	316	3
Screening Level	100	--

DW = dry weight EF = exceedance factor PCP = pentachlorophenol

Seventy-four subsurface sediment samples from 27 coring locations were analyzed for PCP. PCP was detected in 41 of these samples, at concentrations ranging from 5.6 to 4,100 µg/kg (average = 450 µg/kg). PCP was detected in 49 subsurface sediment samples at concentrations exceeding the SCO screening level; the maximum exceedance occurred in the 4 to 6 foot interval at RGH-SC-08 (Figure 6-51); no deeper samples were available to assess the extent of the subsurface exceedance at this location. At other locations where deeper intervals were analyzed, PCP exceedances were no deeper than 12 feet, and often shallower (as shallow as 6 feet below the mudline). The EFs in individual subsurface sediment samples ranged from <1 to 40.

The average PCP concentrations and EFs in subsurface sediment are summarized below by tidal zone and sample depth interval.

DISTRIBUTION OF PCP DETECTED IN SUBSURFACE SEDIMENT BY TIDAL ZONE AND SAMPLE DEPTH INTERVAL

Tidal Zone and Depth Interval (feet below mudline)	Average PCP Concentration (µg/kg DW)	Average PCP EF
Intertidal (+10 to -4 feet NAVD88)		
0-2	1,006	10
2-4	1,027	10
4-6	392	4
8-14	74	<1
Shallow Subtidal (-4 to -15 feet NAVD88)		
0-2	547	5
2-4	313	3
4-6	1,613	16
9-18	ND	ND
Deeper Subtidal (deeper than -15 feet NAVD88)		
0-2	222	2
2-4	ND	<1
4-6	6	<1
12-14	ND	<1
Screening Level	100	--

DW = dry weight EF = exceedance factor PCP = pentachlorophenol ND = not detected

6.6.2.5. DIOXINS/FURANS

The dioxin/furan concentrations detected in surface sediment samples ranged from 23.6 to 200.8 ng/kg TEQ (average = 85.9 ng/kg TEQ) (Figure 6-52). The highest concentrations (>100 ng/kg TEQ) were detected at several locations within 100 feet of the shoreline bank. Average dioxin/furan concentrations and EFs in surface sediment in the intertidal and subtidal zones are summarized below.

DISTRIBUTION OF DIOXINS/FURANS DETECTED IN SURFACE SEDIMENT BY TIDAL ZONE

Tidal Zone	Average Dioxins/Furans Concentration (ng/kg TEQ DW)	Average Dioxin/Furan EF
Intertidal (+10 to -4 feet NAVD88)	150	38
Shallow Subtidal (-4 to -15 feet NAVD88)	86	22
Deeper Subtidal (deeper than -15 feet NAVD88)	53	13
Screening Level	4	--

DW = dry weight EF = exceedance factor TEQ = toxic equivalent concentration

Natural background (4 ng/kg TEQ) was used as the screening level for dioxins/furans in sediment at the Haley Site. Natural background is based on a survey of pristine areas within Puget Sound (Ecology 2015b).

Dioxin/furan concentrations in subsurface sediment ranged from 0.46 to 558.9 ng/kg TEQ (average = 139.6 ng/kg TEQ) (Figure 6-53). The highest concentrations (>500 ng/kg TEQ) were detected in the upper 4 feet of sediment at several locations within 100 feet of the shoreline bank. The average dioxin/furan concentrations and EFs in subsurface sediment are summarized below by tidal zone and sample depth interval.

DISTRIBUTION OF DIOXINS/FURANS DETECTED IN SUBSURFACE SEDIMENT BY TIDAL ZONE AND SAMPLE DEPTH INTERVAL

Tidal Zone and Depth Interval (feet below mudline)	Average Dioxins/Furans Concentration (ng/kg TEQ DW)	Average Dioxins/Furans EF
Intertidal (+10 to -4 feet NAVD88)		
0-2	188	47
2-4	271	68
4-6	31	8
8-14	5	1.2
Shallow Subtidal (-4 to -15 feet NAVD88)		
0-2	271	68
2-4	70	18
4-6	23	6
9-12	7	2
Deeper Subtidal (deeper than -15 feet NAVD88		
0-2	79	20
2-4	11	3
4-6	73	18
12-14	No data	--
Screening Level	4	--

DW = dry weight EF = exceedance factor TEQ = toxic equivalent concentration

6.6.3. Sediment Biological Testing Results

The toxicity of sediment samples collected in the vicinity of the Haley Site was evaluated during several studies, including the 2012 supplemental investigation, (GeoEngineers 2007) Hart Crowser 2009, and Anchor 2003. Fourteen surface sediment bioassays were conducted according to Puget Sound Estuary Program protocols; the bioassays evaluated survival and/or growth of larval mussels, juvenile polychaete worms and amphipods. Results of relevant bioassays are presented in Table 6-12. The bioassay results were compared to SMS criteria defining thresholds for adverse biological effects. Seven sediment samples passed the biological effects criteria for all endpoints; these samples bound the maximum western extent of the area where benthic invertebrates may be adversely affected by sediment contaminants (Figure 6-54). Seven other samples, all within 100 feet of the shoreline bank, failed the SCO criterion for larval mussel growth (but passed for all others); two of these seven samples also failed the CSL criterion for mussel growth (Figure 6-54).

Bioassay results did not correlate well with chemical results. Bioassays passing SCO criteria had a number of SMS chemicals elevated up to 4 times above the SCO threshold. SCO level bioassay failures had no SMS chemicals exceeding their respective SCO thresholds. This lack of correlation could be due to the conservatism built into the development of the chemical standards, site-specific conditions that alter the bioavailability of the contaminants being tested, the variability in the bivalve larval response itself (the only endpoint that failed), or the presence of other chemicals not regulated by the SMS or not tested. At the CSL effect level, only three chemicals were elevated above their respective CSL standards: mercury, butylbenzylphthalate, and dimethylphthalate. These chemicals are not associated with the Haley Site. However, bioassays passing all SMS criteria account for all potential chemical stressors and the bioassay results are appropriate for determining the lateral extent of biological impacts.

6.6.4. Summary of Nature and Extent of Sediment Contamination

The potential extent of Site-related contamination in the aquatic lands adjacent to the Haley upland is characterized by the distribution of the sediment IHSs (petroleum hydrocarbons, select PAHs, cPAHs, PCP and dioxins/furans) in surface and subsurface sediments. Other sediment contaminants (e.g., mercury and phthalates) co-occur with Site-related constituents, but are associated with other sites (e.g., the Whatcom Waterway and Cornwall Landfill sites) that are currently undergoing cleanup. The magnitude of Site-related contamination is represented by the concentrations of the sediment IHSs relative to SMS criteria (i.e., SCO and CSL chemical criteria, where available; these criteria are not available for dioxins/furans) and the site-specific screening level for TPH.

For the purpose of the RI, the areal extent of surface sediment with a potential adverse effect on benthic invertebrates consists of all locations where detected IHS concentrations in surface sediment exceed either the SCO or CSL, except where bioassay testing indicates no adverse biological effects. Figure 6-55 shows the approximate extent of SMS chemical and/or toxicity criteria exceedances in surface sediment at the Site. All surface sediment samples collected in the intertidal zone exceeded at least one SMS criterion for one or more constituents. The lateral extent of sediment posing a potential risk to the benthic community in the intertidal zone has not been fully defined, and will be further evaluated by sampling intended to support remedial design. SMS exceedances also occurred in surface sediment at some locations in the shallow subtidal zone (-4 feet to -15 feet NAVD88). Exceedances of bioaccumulative contaminants of concern occurred in surface sediment throughout the marine area of the Site and extend into the deeper subtidal zone (deeper than -15 feet NAVD88); the outermost boundary has not yet been established and will be further evaluated during design-level sampling.

Subsurface sediment data also were compared to SMS criteria, although the top 12 cm of sediment represent the point of compliance for SMS. Similar to surface sediment, most subsurface sediment samples collected in the intertidal zone had one or more constituents exceeding SMS criteria. With two exceptions, SMS exceedances in the intertidal zone are generally limited to 6 feet below mudline; one location has an exceedance at 10 feet below mudline and another has an exceedance at 14.5 feet below mudline. One or more IHSs in subsurface sediment also exceed SMS criteria at some locations in the shallow subtidal zone. The exceedances in the shallow subtidal zone also generally occur in the upper 6 feet below mudline, with the exception of one location with exceedances of screening levels at a depth of 11.6 feet below mudline based on available subsurface sediment data. No bioassay testing was performed to assess subsurface sediment quality relative to SMS toxicity

criteria. However, the constituents exceeding SMS criteria in subsurface sediment are unlikely to pose a risk to aquatic organisms/biota or human health, because there is no known exposure pathway for the elevated concentrations detected in subsurface sediment. The subsurface sediment data will be considered during development of remedial alternatives in the FS, including an evaluation of the potential for subsurface sediment to recontaminate surface sediment following Site cleanup.

6.7. City Storm Drain Stormwater Sample

Historical monitoring data from the Site indicate that the groundwater table is most often, but not always, lower than the bottom (invert) elevation of the City's 30-inch diameter storm drain pipe (Section 3.3; Figure 2-2). The smear zone present beneath much of the Haley upland does not extend beneath the northern portion of the Haley property, where the City storm drain is located (Figures 6-1 and 6-7).

Stormwater discharging from the City outfall was sampled in March 2013 to evaluate whether groundwater contamination from the Site might be entering the storm drain pipe even though a video survey identified no visible holes or cracks in the pipe. The outfall sample was obtained several hours after high tide, at a time when the outfall was not inundated by tidal water and sufficient time had passed for tidal water to drain from the pipe. The sample was obtained approximately 72 hours after measureable precipitation. The groundwater elevation in the nearest monitoring well was approximately 1 foot lower than the storm drain pipe invert elevation at the time of sampling.

The stormwater sample was analyzed for diesel- and heavy oil-range hydrocarbons, total suspended solids, and PAHs and PCP by EPA Method 8270 (Table 6-13). In addition, water quality parameters (dissolved oxygen, pH, conductivity, temperature, turbidity and oxidation/reduction potential) were measured in the outfall sample and the same parameters were simultaneously measured in groundwater in the shoreline monitoring well closest to the storm drain pipe (well HS-MW-6; Figure 2-2).

The conventional water quality parameters for the stormwater sample differ significantly and in expected ways from the HS-MW-6 groundwater sample. The conductivity of the groundwater sample was greater than that of the outfall sample, as would be expected due to the elevated salinity of groundwater near the shoreline (due to saltwater intrusion). Both samples had relatively low turbidity, but the turbidity of the outfall sample was greater, as would be expected due to the presence of some particulates in any stormwater system. The most substantial differences were observed in dissolved oxygen and redox potential. Groundwater at HS-MW-6 had a substantially lower dissolved oxygen content and lower redox value versus the outfall sample. The lower dissolved oxygen concentration in groundwater at HS-MW-6 likely reflects the biological degradation of organics in the shallow aquifer beneath the Site. Collectively, the conventional parameters for the outfall and groundwater samples vary significantly and in expected ways, and provide no evidence that groundwater is entering the storm drain pipe in significant quantities.

Several noncarcinogenic PAHs, four cPAHs (benzo[a]anthracene, chrysene, benzo[b]fluoranthene and benzo[a]pyrene) and PCP were detected in the stormwater sample at relatively low concentrations (Table 6-13). Diesel- and heavy oil-range petroleum hydrocarbons were not detected in the sample. Although the detected constituents are present on the Haley Site, several lines of evidence suggest they may not be originating from the Site. The groundwater table was lower than the pipe at the time

of sampling, and conventional water quality parameters of the stormwater sample varied substantially from the groundwater sample. In addition, stormwater runoff entering the pipe from nearby urban areas (streets) and the adjacent railroad tracks could be sources of these contaminants. The existing data do not allow a definitive conclusion to be made as to whether the constituents detected in the stormwater outfall sample originated from off-site or on-site sources, or a combination of these potential sources.

6.8. Cross-media Impacts

MTCA requires that cleanup actions account for the migration of contaminants between media (WAC 173-340-702[8]). This section summarizes the relationship between soil, groundwater and sediment contamination, with a focus on three IHSs (2-methylnaphthalene, acenaphthene and benzo[a]anthracene). These constituents were selected to illustrate potential cross-media impacts because each one exceeded the groundwater screening level in a different deep monitoring well near the shoreline. In addition, they are prevalent in all three media and representative of PAHs that are either relatively more mobile (2-methylnaphthalene and acenaphthene), or are less mobile (benzo[a]anthracene). The soil and groundwater screening levels for 2-methylnaphthalene and acenaphthene are based on the protection of sediment via soil leaching and groundwater transport. The soil and groundwater screening levels for benzo(a)anthracene are based on the protection of surface water via soil leaching and groundwater transport. Collectively, the distribution of these constituents in soil, groundwater and sediment provides the basis for evaluating the soil to groundwater to sediment transport pathway.

Soil, groundwater and sediment analytical data for 2-methylnaphthalene, acenaphthene and benzo(a)anthracene are displayed on three different cross sections each (Figures 6-56 through 6-64). The locations of these cross sections are shown in Figure 6-4. Dry-weight analytical results are posted for sediment to enable direct comparison to upland soil data.

As previously discussed in Section 6.3, IHS concentrations in soil are greatest at depths corresponding to the petroleum smear zone. The elevated soil concentrations reflect impacts by residual LNAPL and concentrations decrease several orders of magnitude with increasing depth below the smear zone. The greatest IHS concentrations in soil near the shoreline generally occur at elevations above MLLW (see cross sections A-A' [Figures 6-56, 6-59 and 6-62] and B-B' [Figures 6-57, 6-60 and 6-63]). The greatest IHS concentrations in sediment also generally occur at elevations near or above MLLW. Concentrations decrease substantially with increasing depth below MLLW in soil and sediment near the shoreline.

The estimated vertical (depth) extent of soil and sediment screening level exceedances is shown in all cross sections for the three IHSs. In general, soil screening level exceedances appear to extend down through the deepest fill horizon (wood fill) beneath the Site (Figures 6-59 through 6-64). Screening level exceedances for 2-methylnaphthalene extend to a greater depth beneath the upland. This constituent was detected at concentrations exceeding the soil screening level in the native marine sediment horizon beneath upland fill at two locations (TL-MW-13 and TL-MW-14; Figures 6-57 and 6-58). These deepest soil exceedances, however, may be an artifact of drilling as discussed below.

The IHSs in LNAPL and residual LNAPL in soil in the petroleum smear zone provide a source for contaminant partitioning into groundwater, as discussed in Section 7.0. This is evident based on the substantial variation of constituent concentrations in groundwater as displayed on the cross sections. Groundwater concentrations decrease by several orders of magnitude outside the lateral limits of the smear zone (Figure 6-4), as shown, for example, on cross section C-C' for 2-methylnaphthalene and acenaphthene (Figures 6-58 and 6-61). Groundwater concentrations also decrease substantially with increasing depth below the groundwater table and smear zone (e.g., Figure 6-57 and 6-58).

There are only a limited number of groundwater screening level exceedances in deep monitoring wells near the shoreline. As shown below, six constituents (five groundwater IHSs and fluorene) exceeded screening levels in three of the seven deep monitoring wells adjacent to the shoreline. All but one of the groundwater screening level exceedances in deep monitoring wells had relatively low EFs (≤3).

EXCEEDANCE FACTORS FOR GROUNDWATER SCREENING LEVEL EXCEEDANCES IN DEEP MONITORING WELLS NEAR SHORELINE

Constituent	Deep Monitoring Wells Adjacent to Haley Shoreline and Northern Portion of Cornwall Shoreline						
	MW-15D	MW-16D	TL-MW-13	TL-MW-16	TL-MW-15	TL-MW-11	TL-MW-14
1-methyl-naphthalene	--	--	1.8	--	--	--	11
2-methyl-naphthalene	--	--	1.5	--	--	--	--
Acenaph-thene	--	--	--	--	--	--	2
Fluorene	--	--	--	--	--	--	1.6
Benzo(a)-anthracene	--	--	--	--	--	3	--
cPAHs	--	--	--	--	--	2	--

Notes:

"--" = EF<1.0 (no groundwater screening level exceedance).

The deep monitoring wells referenced above are shown in Figures 6-56 through 6-64.

No other constituents exceeded groundwater screening levels in deep shoreline monitoring wells, except dioxins/furans. Dioxins/furans were excluded from this discussion because they are hydrophobic compounds that do not readily partition to groundwater. Dioxins/furans were detected in groundwater in deep wells TL-MW-11 and TL-MW-16, but these detections are likely associated with suspended solids.

Monitoring wells TL-MW-13, TL-MW-14, TL-MW-15 and TL-MW-16 are screened in the deepest horizon (native marine sediment) along the Haley shoreline, slightly above underlying bedrock (Figure 6-58). Monitoring well TL-MW-11 is screened at a shallower depth, in a wood fill horizon below the bottom of the sheet pile barrier (Figure 6-58). Cornwall shoreline monitoring wells MW-15D and MW-16D are screened in, or immediately below, the landfill debris horizon.

Only the more mobile PAHs (1- and 2-methylnaphthalene, acenaphthene and fluorene) exceed groundwater screening levels in the deepest monitoring wells (TL-MW-13 and TL-MW-14). It is

possible that the PAH exceedances in TL-MW-13 are a result of shallower contaminated soil being carried downward as a result of drilling. This is suggested by the irregular vertical profile of 2-methylnaphthalene in soil in the deeper portion of TL-MW-13 (Figure 6-58). In addition, there is no evidence of a strong downward vertical groundwater gradient that might explain the transport of 2-methylnaphthalene to this depth in TL-MW-13 (Section 4.2.2). The soil and groundwater screening level exceedances in both TL-MW-11 and TL-MW-14 likely reflect the presence of the thick smear zone and LNAPL Plume at this location.

There are very few sediment screening level exceedances for 2-methylnaphthalene, acenaphthene and benzo(a)anthracene in cross-sections A-A' and B-B'. It should be noted that although sediment concentrations in the cross sections are displayed as dry weight values, any SMS exceedances are identified, regardless of whether the applicable SMS criteria are based on dry weight- or carbon-normalized analytical results. The only exceedances of SMS criteria are as follows:

- Acenaphthene and benzo(a)anthracene at a depth of 0-2 feet in the intertidal zone immediately west of the sheet pile barrier (COB-SC-02; Figures 6-60 and 6-63).
- 2-Methylnaphthalene at depths of 0-4 feet in the intertidal zone west of the former drip pads (COB-SC-01; Figure 6-56), and acenaphthene at depths between 0 and 2 feet in the intertidal zone (COB-SC-01 and PS-20; Figure 6-59).

These screening level exceedances occur at relatively shallow depths above MLLW, and at intertidal locations near the shoreline. Sediment IHS concentrations shown in cross sections A-A' and B-B' decrease substantially with increasing depth below MLLW near the shoreline, and with increasing lateral distance from the shoreline. The elevated IHS concentrations at shallow depths in the intertidal zone are likely caused, in part, by historical groundwater seepage and LNAPL migration from the adjacent upland. Sediment impacts in the intertidal zone also may have originated from the erosion and deposition of contaminated soil from the shoreline bank and historic Haley storm drain discharges.

The vertical and lateral extent of groundwater and sediment screening level exceedances near the shoreline suggest that the groundwater to sediment pathway is complete primarily at shallow aquifer depths. Although there are a few groundwater screening level exceedances at greater depths near the shoreline, there is no evidence that a deeper groundwater pathway is impacting sediment. IHS concentrations in sediment at greater depths and distances from the shoreline do not exhibit an apparent gradient toward the upland, where contaminated groundwater is present. The diffuse sediment impacts in the subtidal zone and deeper portions of the intertidal zone are likely the result of erosion and deposition of contaminated upland fill, along with contributions from other sources not related to the former Haley facility (e.g., treated pilings in the adjacent aquatic lands and urban background sources).

Table 6-1a

Summary of LNAPL Thickness in Monitoring Wells TL-MW-1 through TL-MW-16

R.G. Haley Site

Bellingham, Washington

Date	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
01/02/01	0	3.61	1.7	2.31	0.2	--	--	--	--	--	--	--	--	--	--	--
01/04/01	0	4.84	2.89	0.57	0.02	--	--	--	--	--	--	--	--	--	--	--
01/09/01	0	1.47	0.01	0.17	0.02	--	--	--	--	--	--	--	--	--	--	--
01/15/01	0	4.25	3.1	3.25	0.01	--	--	--	--	--	--	--	--	--	--	--
01/24/01	0	4.13	2.96	4.6	0.22	--	--	--	--	--	--	--	--	--	--	--
02/01/01	0	5.75	2.7	6.77	1.29	--	--	--	--	--	--	--	--	--	--	--
02/06/01	0	3.84	2.2	3.98	0.01	--	--	--	--	--	--	--	--	--	--	--
02/12/01	0	4.6	3.6	5.94	0.5	--	--	--	--	--	--	--	--	--	--	--
02/19/01	0	3.29	2.73	6.31	0.38	--	--	--	--	--	--	--	--	--	--	--
03/02/01	0	1.45	5.8	6.55	--	--	--	--	--	--	--	--	--	--	--	--
03/14/01	0	2.1	4.3	6.9	0.6	0	0	0	0	--	--	--	--	--	--	--
03/23/01	0	2.6	4.95	6.5	0.35	0.05	0	0	0	--	--	--	--	--	--	--
03/28/01	0	3.4	4.75	6.3	0.3	0.4	0	0	0	--	--	--	--	--	--	--
04/06/01	0	2.1	4.08	6.95	0.02	0.1	0	0	0	--	--	--	--	--	--	--
04/13/01	0	3.31	4.65	6.41	0.02	0.7	0	0	0	--	--	--	--	--	--	--
04/21/01	0	2.1	4.54	6.57	0.5	0.05	0	0	0	--	--	--	--	--	--	--
04/26/01	0	3.45	4.85	6.8	0.01	0.01	0	0	0	--	--	--	--	--	--	--
05/02/01	0	2.4	4.8	6.25	0.01	1	0	0	0	--	--	--	--	--	--	--
05/10/01	0	0.9	3.16	6.53	0.55	0.75	0	0	0	--	--	--	--	--	--	--
05/17/01	0	2.3	3.15	6.95	0.51	0.84	0	0	0	--	--	--	--	--	--	--
05/25/01	0	1.88	3.15	6.95	0.01	0.95	0	0	0	--	--	--	--	--	--	--
06/01/01	0	1.85	3.24	6.56	0.02	0.85	0	0	0	--	--	--	--	--	--	--
06/06/01	0	1.9	3.35	6.75	0.02	1.75	0	0	0	--	--	--	--	--	--	--
06/13/01	0	2.15	3.33	6.59	0.42	0.81	0	0	0	--	--	--	--	--	--	--
06/22/01	0	1.77	5.94	5.64	0.01	0	0	0	0	--	--	--	--	--	--	--
06/27/01	0	2.27	4	6.75	0.01	0.95	0	0	0	--	--	--	--	--	--	--
07/09/01	0	0.9	3.1	6.45	0.3	0.6	0	0	0	--	--	--	--	--	--	--
07/18/01	0	1.15	4.5	5.5	0.01	0	0	0	0	--	--	--	--	--	--	--
07/27/01	0	0	3.1	5.55	0.05	0.48	0	0	0	--	--	--	--	--	--	--
08/03/01	0	0.38	1	6.85	0.1	0.38	0	0	0	--	--	--	--	--	--	--
08/10/01	0	1.3	3.18	6.2	0.25	0.04	0	0	0	--	--	--	--	--	--	--
08/16/01	0	3.1	4.55	5.45	0.1	0	0	0	0	--	--	--	--	--	--	--
08/24/01	0	1.7	2.95	5.25	0.13	0.12	0	0	0	--	--	--	--	--	--	--
08/31/01	0	2.82	3.48	6.88	0.1	0.5	0	0	0	--	--	--	--	--	--	--
09/06/01	0	2.75	3.55	6.55	2.5	0.6	0	0	0	--	--	--	--	--	--	--
09/14/01	0	2.9	5.05	5.8	--	0.05	0	0	0	--	--	--	--	--	--	--
09/19/01	0	2	3.8	6.1	0.01	0.08	0	0	0	--	--	--	--	--	--	--
09/28/01	0	2.6	3.9	6.05	0.1	0.01	0	0	0	--	--	--	--	--	--	--
10/03/01	0	1.17	3.18	6.1	0.3	0.36	0	0	0	--	--	--	--	--	--	--
10/12/01	0	0.2	2.15	5.49	0.01	0	0	0	0	--	--	--	--	--	--	--
10/17/01	0	2.05	3.75	6.07	0.06	0.15	0	0	0	--	--	--	--	--	--	--
10/25/01	0	2.4	3.4	3.28	0.04	0	0	0	0	--	--	--	--	--	--	--
11/01/01	0	2.95	3.65	4.52	0.03	0.1	0	0	0	--	--	--	--	--	--	--
11/09/01	0	2.65	3.85	4.48	0.07	0.24	0	0	0	--	--	--	--	--	--	--
11/14/01	0	1.65	2.28	4.5	0.01	0.02	0	0	0	--	--	--	--	--	--	--

Date	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
11/21/01	0	1.8	2.48	1	0.01	0.01	0	0	0	--	--	--	--	--	--	--
11/30/01	0	3.15	3.9	2.8	0.05	0.01	0	0	0	--	--	--	--	--	--	--
12/04/01	0	4.62	6	2.57	0	0	0	0	0	--	--	--	--	--	--	--
12/16/01	0	1.34	2.8	0.1		0	0	0	0	--	--	--	--	--	--	--
12/26/01	0	1.55	5.18	4.01	0.1	0.13	0	0	0	--	--	--	--	--	--	--
01/04/02	0	2.33	3.69	2.19	0.08	0.01	0	0	0	--	--	--	--	--	--	--
01/10/02	0	0.32	4.95	2.54	0.01	0.09	0	0	0	--	--	--	--	--	--	--
01/16/02	0	0.34	4.74	4.51	0.25	0.66	0	0	0	--	--	--	--	--	--	--
01/23/02	0	5.12	4.75	5.67	0.2	1.05	0	0	0	--	--	--	--	--	--	--
01/29/02	0	0.1	6.04	3.42	0.16	0	0	0	0	--	--	--	--	--	--	--
02/06/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/02	0	5.9	4.33	3.75	0.01	0.2	0	0	0	--	--	--	--	--	--	--
02/13/02	0	6.2	4.85	7.15	0.25	0.03	0	0	0	--	--	--	--	--	--	--
02/21/02	0	1.56	2.2	4.35	0	0.01	0	0	0	--	--	--	--	--	--	--
02/26/02	0	0.17	4.7	6.26	0.14	0.05	0	0	0	--	--	--	--	--	--	--
03/15/02	0	3.05	2.83	7.55	0.25	0.4	0	0	0	--	--	--	--	--	--	--
03/20/02	0	7	4.03	6.35	0.2	0.54	0	0	0	--	--	--	--	--	--	--
03/27/02	0	3.95	4.52	5.55	0.25	0.45	0	0	0	--	--	--	--	--	--	--
04/03/02	0	1.85	3.38	5.2	0.33	0.35	0	0	0	--	--	--	--	--	--	--
04/12/02	0	3.47	3.35	4.55	0.26	0.8	0	0	0	--	--	--	--	--	--	--
06/03/02	0	1.77	0.22	5.05	0.18	0.49	0	0	0	--	--	--	--	--	--	--
06/10/02	0	3.55	3.3	1.63	1.3	0.58	0	0	0	--	--	--	--	--	--	--
06/25/02	0	0.07	0.27	0.1	1.88	0.43	0	0	0	--	--	--	--	--	--	--
07/02/02	0	1.38	1.2	1.18	3.05	0.47	0	0	0	--	--	--	--	--	--	--
07/09/02	0	0.4	1.31	0.9	2.24	0.26	0	0	0	--	--	--	--	--	--	--
07/18/02	0	0.3	1.35	0.54	0.33	0.01	0	0	0	--	--	--	--	--	--	--
07/31/02	0	0.3	1.42	0.88	0.77	0.05	0	0	0	--	--	--	--	--	--	--
08/09/02	0	0.3	1.65	1.07	0.33	0.01	0	0	0	--	--	--	--	--	--	--
08/22/02	0	0.5	1.65	0.65	0.65	0	0	0	0	--	--	--	--	--	--	--
08/28/02	0	0.75	1	2.23	1.37	0.1	0	0	0	--	--	--	--	--	--	--
09/06/02	0	0.67	0.7	1.45	0.3	0.01	0	0	0	--	--	--	--	--	--	--
09/13/02	0	0.71	0.44	0.65	0.45	0	0	0	0	--	--	--	--	--	--	--
10/04/02	0	1.35	0.4	2.83	1.28	0	0	0	0	--	--	--	--	--	--	--
10/18/02	0	0.3	0.49	3	1.98	0.03	0	0	0	--	--	--	--	--	--	--
11/07/02	0	0.12	0.2	0.01	0	0	0	0	0	--	--	--	--	--	--	--
11/15/02	0	0.02	0.01	0.38	0.5	0	0	0	0	--	--	--	--	--	--	--
11/27/02	0	0.1	2.15	1.43	0.01	0	0	0	0	--	--	--	--	--	--	--
12/13/02	0	0.1	0.4	1.19	0.01	0.01	0	0	0	--	--	--	--	--	--	--
01/06/03	0	0.07	1.95	3.14	0.14	0.08	0	0	0	--	--	--	--	--	--	--
01/21/03	0	2.46	1.73	2.59	0.2	0.48	0	0	0	--	--	--	--	--	--	--
02/04/03	0	4.08	1.92	1.75	0.22	0.64	0	0	0	--	--	--	--	--	--	--
02/11/03	0	1.5	2.12	0.95	0.12	0.48	0	0	0	--	--	--	--	--	--	--
02/17/03	0	1.06	1.04	0.33	0.05	0.06	0	0	0	--	--	--	--	--	--	--
02/26/03	0	1.3	1.62	1.45	0.18	0.52	0	0	0	--	--	--	--	--	--	--
03/04/03	0	2.15	2.31	0.43	0.3	0.35	0	0	0	--	--	--	--	--	--	--
03/13/03	0	0.33	0.21	0.2	0.02	0.29	0	0	0	--	--	--	--	--	--	--
03/17/03	0	1.39	1.85	1.16	0.01	0.02	0	0	0	--	--	--	--	--	--	--
03/26/03	0	2.37	1.15	0.73	0.3	0.52	0	0	0	--	--	--	--	--	--	--
04/16/03	0	3.37	2.44	1.51	0.25	0.01	0	0	0	--	--	--	--	--	--	--
04/29/03	0	2.89	2.05	0.8	0.25	0.32	0	0	0	--	--	--	--	--	--	--
05/09/03	0	2.56	2.46	0.8	0.01	0.25	0	0	0	--	--	--	--	--	--	--

Date	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
05/22/03	0	1.33	1.37	0.38	0.46	0.5	0	0	0	--	--	--	--	--	--	--
06/06/03	0	0.15	0.76	0.58	0.87	0.38	0	0	0	--	--	--	--	--	--	--
06/12/03	0	0.14	0.48	0.06	0.23	0.06	0	0	0	--	--	--	--	--	--	--
06/19/03	0	0.26	0.33	0.02	0.55	0.48	0	0	0	--	--	--	--	--	--	--
07/01/03	0	0.22	0.25	0.01	0.02	0.23	0	0	0	--	--	--	--	--	--	--
08/22/03	0	0.63	0.77	0.05	1.24	0.01	0	0	0	--	--	--	--	--	--	--
09/04/03	0	0.4	0.39	0.11	0.27	0.01	0	0	0	--	--	--	--	--	--	--
09/17/03	0	0.27	0.22	0.28	0.45	0	0	0	0	--	--	--	--	--	--	--
10/03/03	0	0.47	0.27	0.3	0.01	0	0	0	0	--	--	--	--	--	--	--
10/24/03	0	0.01	3.68	1	0.29	0.27	0	0	0	--	--	--	--	--	--	--
11/03/03	0	3.14	2.28	1.02	0.09	0.04	0	0	0	--	--	--	--	--	--	--
11/26/03	0	3.67	1.89	0.07	0.01	0.01	0	0	0	--	--	--	--	--	--	--
12/11/03	0	2.6	1.44	0.53	0.17	0.37	0	0	0	--	--	--	--	--	--	--
12/22/03	0	0.97	0.73	0.1	0	0.01	0	0	0	--	--	--	--	--	--	--
01/09/04	0	1.92	0.36	0.74	0.02	0.49	0	0	0	--	--	--	--	--	--	--
01/23/04	0	3.23	1.51	0.8	0.06	0.2	0	0	0	--	--	--	--	--	--	--
02/06/04	0	4.15	3.54	0.74	0.09	0.31	0	0	0	--	--	--	--	--	--	--
02/19/04	0	3.24	1.29	1.26	0.08	0.31	0	0	0	--	--	--	--	--	--	--
03/05/04	0	2.99	1.25	1.41	0.15	0.52	0	0	0	--	--	--	--	--	--	--
03/19/04	0	2.61	1.17	0.78	0.14	0.65	0	0	0	--	--	--	--	--	--	--
04/02/04	0	2.42	1.77	0.47	0.3	0.25	0	0	0	--	--	--	--	--	--	--
04/16/04	0	1.28	1.72	0.45	0.24	0.29	0	0	0	--	--	--	--	--	--	--
04/29/04	0	0.9	1.76	0.62	0.08	0.9	0	0	0	--	--	--	--	--	--	--
05/13/04	0	0	0	0.43	0.23	0.39	0	0	0	--	--	--	--	--	--	--
05/27/04	0	4.07	0.02	1.83	0.15	0.6	0	0	0	--	--	--	--	--	--	--
06/14/04	0	4.58	2.91	1.07	0	0	0	0	0	--	--	--	--	--	--	--
07/09/04	0	0.1	1.19	0.03	0.18	0.22	0	0	0	--	--	--	--	--	--	--
07/22/04	0	0.23	0.87	0.01	0.15	0.13	0	0	0	--	--	--	--	--	--	--
08/09/04	0	0.47	0.45	0.01	0.1	0	0	0	0	0.01	0	--	--	--	--	--
08/27/04	0	1.19	0.03	3.5	0.02	0	0	0	0	--	0	--	--	--	--	--
09/10/04	0	2.75	2.18	0.7	0.01	0.03	0	0	0	--	0	--	--	--	--	--
09/22/04	0	2.99	0.79	1.49	0.01	0.01	0	0	0	0.01	0	--	--	--	--	--
10/19/04	0	1.1	0.39	1.33	0.02	0.03	0	0	0	--	0	--	--	--	--	--
11/05/04	0	4.04	1.21	4.17	0.05	0	0	0	0	--	0	--	--	--	--	--
11/19/04	0	9.10	1.91	5.28	0.1	0	0	0	0	--	0	--	--	--	--	--
12/03/04	0	4.47	2.4	1.72	0.04	0.43	0	0	0	--	0	--	--	--	--	--
12/09/04	0	2.13	0.37	1.35	0	0	0	0	0	0	0	--	--	--	--	--
12/17/04	0	5.29	1.6	2.02	0.09	0.26	0	0	0	--	0	--	--	--	--	--
12/28/04	0	3.9	1.21	0.39	0.05	0.29	0	0	0	--	0	--	--	--	--	--
01/14/05	0	2.1	0.52	1.64	0.09	0.28	0	0	0	--	0	--	--	--	--	--
01/28/05	0	6.12	1.24	0.53	0.2	0.79	0	0	0	--	0	--	--	--	--	--
02/11/05	0	6.39	0.9	1.17	0.33	0.55	0	0	0	--	0	--	--	--	--	--
03/04/05	0	1.12	0.41	1.09	0.81	0.78	0	0	0	--	0	--	--	--	--	--
03/17/05	0	0.82	0.73	0.69	0.02	0.35	0	0	0	--	0	--	--	--	--	--
03/30/05	0	6.14	0.44	1.41	0.19	0.03	0	0	0	0	0	--	--	--	--	--
04/15/05	0	5.15	0.72	3.15	0.21	0.89	0	0	0	--	0	--	--	--	--	--
04/29/05	0	3.44	0.75	1.03	0.35	0.6	0	0	0	--	0	--	--	--	--	--
05/11/05	0	4.35	1.85	0.76	0.56	0.5	0	0	0	--	0	--	--	--	--	--
05/25/05	0	6.87	1.53	0.45	0.04	0.29	0	0	0.01	--	0	--	--	--	--	--
06/09/05	0	0.56	1.1	0.6	0.15	0.55	0	0	0.03	--	0	--	--	--	--	--
06/24/05	0	0.63	0.76	0.02	0.1	0.06	0	0	0	--	0	--	--	--	--	--

Date	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
07/05/05	0	1.5	0.58	0.03	0.1	0.37	0	0	0.01	--	0	--	--	--	--	--
07/22/05	0	1.88	0.43	0	0.06	0.03	0	0	0	--	0	--	--	--	--	--
08/05/05	0	2.4	0.35	0.04	0.22	0.26	0	0	0.01	--	0	--	--	--	--	--
08/19/05	0	1.49	0.27	0.05	0.03	0.02	0	0	0	--	0	--	--	--	--	--
09/02/05	0	2.2	0.4	0.06	0.11	0	0	0	0.02	--	0	--	--	--	--	--
09/14/05	0	2.22	0.38	0.08	0.09	0	0	0	0.04	0	0	--	--	--	--	--
10/07/05	0	1.99	0.25	0.05	0.07	0	0.01	0	0	--	0	--	--	--	--	--
10/18/05	0	0.3	0.11	0.08	0.12	0	0	0	0	--	0	--	--	--	--	--
11/04/05	0	1.02	0.6	0.02	0.02	0	0	0	0	--	0	--	--	--	--	--
11/18/05	0	3.85	1.86	1.13	0.12	0	0	0	0	--	0	--	--	--	--	--
12/02/05	0	2.53	1.1	0.02	0.04	0.1	0	0	0	--	0	--	--	--	--	--
12/16/05	0	1.59	1.66	0.16	0.39	0.02	0	0	0	--	0	--	--	--	--	--
01/06/06	0	4.51	1.92	0.05	0.01	0.04	0	0	0	--	0	--	--	--	--	--
01/19/06	0	6.59	2.39	0.59	0.11	0.32	0	0	0	0	0	--	--	--	--	--
02/03/06	0	5.75	1.3	0.5	0.18	0.34	0	0.01	0	0.07	0	--	--	--	--	--
02/17/06	0	7.9	1.41	1.52	1.43	0.96	0	0	0	0	0	--	--	--	--	--
03/09/06	0	0.77	0.29	0.7	0.02	0.42	0	0	0	0	0	--	--	--	--	--
03/31/06	0	0.57	0.43	0.39	0.26	0.73	0	0	0	0.07	0	--	--	--	--	--
04/14/06	0	0.34	0.38	1.17	0.14	0.76	0	0	0	0.05	0	--	--	--	--	--
04/27/06	0	5.92	0.61	3.62	0.4	1.05	0	0	0	0.12	0	--	--	--	--	--
05/11/06	0	3.34	0.6	1.16	0.43	1.18	0	0	0	0.14	0	--	--	--	--	--
05/25/06	0	1.68	0.14	0.27	0.31	0.22	0	0	0	0.22	0	--	--	--	--	--
06/06/06	0	1.41	0.13	0.22	0.65	0.15	0	0	0	0.3	0	--	--	--	--	--
07/07/06	0	1.64	0.51	0.4	0.58	0	0	0	0	0.15	0	--	--	--	--	--
07/21/06	0	1.35	0.22	0.6	0.58	0.45	0	0	0.01	0.03	0	--	--	--	--	--
08/02/06	0	0.79	0.25	0.02	0.18	0.06	0	0	0.01	0.02	0	--	--	--	--	--
08/15/06	0	1.16	0.21	0.02	0.22	0	0	0	0.02	0.01	0	--	--	--	--	--
09/01/06	0	2.48	0.28	0.02	0.23	0.02	0	0	0	0.14	0	--	--	--	--	--
09/15/06	0	1.17	0.13	0.01	0.01	0	0	0	0.01	0	0	--	--	--	--	--
09/29/06	0	2.12	0.31	0.04	0.41	0	0	0	0	0.01	0	--	--	--	--	--
10/21/06	0	1.89	0.16	0.02	0.16	0.01	0.01	0	0.01	0.14	0	--	--	--	--	--
11/10/06	0	0	0.08	0.08	0	0.01	0	0	0	0	0	--	--	--	--	--
12/08/06	0	5.25	0.74	1	0.02	0	0	0	0	0	0	--	--	--	--	--
01/18/07	0	4.86	1.36	1.48	0.35	0.24	0	0	0	0	0	--	--	--	--	--
03/30/07	0	6	1.6	2.33	2.34	1.01	0	0	0	0	0	--	--	--	--	--
04/13/07	0	3.58	0.59	0.08	0.65	0.82	0	0	0	0.01	0	--	--	--	--	--
04/25/07	0	4.34	0.46	0.12	0.62	0.74	0	0	0	0.03	0	--	--	--	--	--
07/06/07	0	1.94	0.83	0.21	0.95	0.4	0	0	0	0.02	0	--	--	--	--	--
07/27/07	0	0.58	0.6	0.02	0.21	0.08	0	0	0	0.02	0	--	--	--	--	--
08/07/07	0	1.17	0.39	0.02	0.45	0.05	0	0	0	0.02	0	--	--	--	--	--
08/24/07	0	1.83	0.37	0.02	0.18	0	0	0	0	0.02	0	--	--	--	--	--
09/07/07	0	2.35	0.48	0.11	0.02	0.02	0	0	0	0	0	--	--	--	--	--
09/28/07	0	2.72	0.4	0.02	0	0	0	0	0	0.02	0	--	--	--	--	--
10/19/07	0	0.3	0.02	0.01	0.22	0	0	0	0	0	0	--	--	--	--	--
11/03/07	0	0.3	0.14	0.08	0.15	0	0	0	0	0	0	--	--	--	--	--
11/15/07	0	0.29	0.18	0.02	0.27	0	0	0	0	0	0	--	--	--	--	--
11/30/07	0	0.18	0.3	0.02	0.38	0	0	0	0	0	0	--	--	--	--	--
01/04/08	0	2.84	0.68	0.05	0.2	0	0	0.04	0	0	0	--	--	--	--	--
04/09/08	0	3.4	1.11	1.28	0.83	1.35	0	0	0	0	0	--	--	--	--	--
07/08/08	0	1.62	0.85	0.3	0.42	0.42	0	0.2	0	0	0	--	--	--	--	--
11/03/08	0	0.2	0.2	0.2	0.2	0.01	0.4	0.08	0	0	0	--	--	--	--	--

Date	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
02/05/09	0	1.95	1	0.78	0	0.22	0	0	0	0	0	--	--	--	--	--
06/01/09	0	3.63	1.12	1.24	1.09	0.9	0	0.1	0	0	0	--	--	--	--	--
12/14/10	0	2.22	0.57	2.49	0.97	0.01	0	0	0	0	0	--	--	--	--	--
03/21/11	0	6.21	0.86	4.59	1.2	1.23	0.02	0.28	0	0.08	0	--	--	--	--	--
06/15/11	0	3.69	0.62	3.52	2.13	1.92	0	0.41	0	0	0	--	--	--	--	--
09/22/11	0	0.97	1.05	1.48	1.17	0.22	0	0.11	0	0	0	--	--	--	--	--
12/13/11	0	1.04	0.66	1.01	0.14	0	0	0.14	0	0.13	0	--	--	--	--	--
03/26/12	0	5.18	0.68	1.4	0.29	0.79	0	0.18	0	0.44	0	--	--	--	--	--
05/03/12	0	4.99	0.69	0.81	0.73	0.86	0	1.06	0	0.06	0	--	--	--	--	--
05/08/12	--	--	--	--	--	--	Trace	--	--	--	--	--	--	--	--	--
07/17/12	0	--	--	--	--	--	--	--	0	--	0	0	0	0	0	0
08/09/12	0	2.93	1.02	0.61	0.78	0.03	0.02	0.45	0	0.19	0	0.03	0	0	0	0
09/24/12	0	2.38	0.51	0	0.55	0	0	0.59	0	0.35	0	--	--	--	--	--
12/12/12	0	4.86	0.24	0.87	0.25	0	0	0.03	0	0.39	0	--	--	--	--	--
01/15/13	0	5.92	--	--	--	--	--	0	0	0.60	--	0.48	0	--	--	0
01/22/13	0	3.81	--	--	--	0.05	--	0	0	0.44	--	0.30	0	--	--	0
01/29/13	0	5.04	--	--	--	0.04	--	0.02	0	0.05	--	0.58	0	--	--	0
02/06/13	0	3.90	--	--	--	0	--	0	0	0	--	0.16	0	--	--	0
02/14/13	0	4.47	--	--	--	0.09	--	Trace	0	0.05	--	0.73	0	--	--	0
02/20/13	0	4.29	--	--	--	0.15	--	Trace	0	0.02	--	0.36	0	--	--	0

LNAPL Frequency Statistics	TL-MW-1	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-7	TL-MW-8	TL-MW-9	TL-MW-10	TL-MW-11	TL-MW-12	TL-MW-13	TL-MW-14	TL-MW-15	TL-MW-16
# Occasions Checked	216	215	209	209	206	204	200	205	206	61	87	8	8	2	2	8
0 feet LNAPL (%)	100%	1%	0%	1%	4%	22%	97%	92%	95%	43%	100%	13%	100%	100%	100%	100%
Trace LNAPL (%)	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
0.01 to 0.5 feet (%)	0%	17%	26%	31%	78%	57%	3%	6%	5%	56%	0%	63%	0%	0%	0%	0%
> 0.5 to 1 feet (%)	0%	7%	16%	15%	10%	17%	0%	0%	0%	2%	0%	25%	0%	0%	0%	0%
> 1 feet (%)	0%	74%	57%	53%	8%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Measurements are in feet. LNAPL thickness measured with a Solonist electric water/product interface meter.

Trace refers to indication of LNAPL on probe but thickness not measureable (less than 0.01 feet)

-- = not measured

Refer to Appendix B, Table B-6, for historical depth to groundwater elevation measurements

Table 6-1b

Summary of LNAPL Thickness in Monitoring Wells RW-1 through RW-6, HS-MW-2 through HS-MW-19, CL-MW-1H and CL-MW-103

R.G. Haley Site

Bellingham, Washington

Date	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	HS-MW-2	HS-MW-3	HS-MW-4	HS-MW-5	HS-MW-6	HS-MW-7	HS-MW-8	HS-MW-9	HS-MW-10	HS-MW-11	HS-MW-13	HS-MW-15	HS-MW-16	HS-MW-17	HS-MW-19	CL-MW-1H	CL-MW-103
01/02/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/04/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/09/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/15/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/24/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/01/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/06/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/12/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/19/01	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/02/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/14/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/23/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/28/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/06/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/13/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/21/01	0	0	0.02	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/26/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/02/01	0	0.01	0.1	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/10/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/17/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/25/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/01/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/06/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/13/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/22/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/27/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/09/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/18/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/27/01	0	0	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/03/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/10/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/16/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/24/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/31/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/06/01	0.01	0.01	0.01	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/14/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/19/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/28/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/03/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/12/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/17/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/25/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/01/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/09/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/14/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/21/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/30/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/04/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/16/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/26/01	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--

Date	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	HS-MW-2	HS-MW-3	HS-MW-4	HS-MW-5	HS-MW-6	HS-MW-7	HS-MW-8	HS-MW-9	HS-MW-10	HS-MW-11	HS-MW-13	HS-MW-15	HS-MW-16	HS-MW-17	HS-MW-19	CL-MW-1H	CL-MW-103
01/04/02	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/10/02	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/16/02	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/23/02	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/29/02	0	0	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/06/02	--	--	--	0.35	0.02	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/02	0	0	0	0.12	0.01	0.88	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/13/02	0	0	0	0.19	0.63	2.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/21/02	0	0	0	0.04	0.01	0.4	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/26/02	0	0	0	0.28	0.03	1	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/15/02	0	0	0	0.5	0.21	1.1	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/20/02	0	0	0	1.28	0.13	1.63	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/27/02	0	0	0	1.85	1.27	2.6	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/03/02	0	0	0	1.3	1.48	2.07	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/12/02	0	0	0	1.75	0.57	1.54	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/03/02	0.05	0	0	0.73	1.04	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/10/02	0.17	0	0	0.73	1.04	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/25/02	0.28	0	0.1	0.51	1.6	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/02/02	0.15	0	0.03	0.67	1.3	0.01	0	0	0	0	0	0	0.04	0	--	--	--	--	--	--	--	0.1	--
07/09/02	0.15	0	0.1	0.76	1.47	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/18/02	0.19	0	0.02	0.72	0.64	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/31/02	0.33	0	0.05	0.4	0.02	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/09/02	0.39	0	0.06	0.04	0.67	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/22/02	0.38	0	0.1	0.01	0.66	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/28/02	0.54	0	0.17	0.01	0.68	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/06/02	0.22	0	0.35	0.01	0.3	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/13/02	0.27	0	0.16	0.01	0.11	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/04/02	0.17	0	0.2	0.1	0.01	0.05	0	0	0	0	0	0	0.13	0	--	--	--	--	--	--	--	0.32	--
10/18/02	0.15	0	0.34	0.15	0.09	0.14	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/07/02	0.09	0.01	0.53	0.01	0.03	0.02	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/15/02	0.01	0	0.01	0.12	0	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/27/02	0.01	0	0.01	0.35	0.47	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/13/02	0.01	0	0.01	0.1	0.01	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/06/03	0	0	0.02	0.06	0.02	0.04	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/21/03	0	0	0.01	0.39	0.84	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/04/03	0	0	0.01	0.61	1.16	0.97	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0.09	--
02/11/03	0.01	0	0.01	0.13	2.57	0.65	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/17/03	0	0	0.01	0.01	0.01	0.45	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/26/03	0	0	0.02	0.24	1.28	0.45	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/04/03	0	0	0.02	0.31	1.34	0.57	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/13/03	0	0	0.01	0.1	0.01	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/17/03	0	0	0.01	0.52	0.65	0.11	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/26/03	0	0	0	0.24	0.42	0.27	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/16/03	0	0	0	0.52	2.12	0.81	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/29/03	0.01	0	0	0.16	1.05	0.28	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/09/03	0.01	0	0.01	0.36	1.01	0.27	0	0	0	0	0	0	0.02	0	--	--	--	--	--	--	--	0.02	--
05/22/03	0	0	0.01	0.37	1.06	0.24	--	--	--	--	0	--			--	--	--	--	--	--	--	--	--
06/06/03	0	0	0.01	0.28	0.51	0.29	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/12/03	0	0	0.01	0.02	0.36	0.35	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/19/03	0	0	0	0.02	0.26	0.21	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/01/03	0	0	0.02	0.02	0.31	0.18	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/22/03	0.08	0	0.05	0.01	0.49	0.03	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/04/03	0.15	0	0.08	0.01	0.17	0.06	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/17/03	0.13	0	0.15	0	0.06	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	0.1	0	0.2	0.01	0.09	0.02	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/24/03	0.2	0	0.01	1	0.17	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--

Date	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	HS-MW-2	HS-MW-3	HS-MW-4	HS-MW-5	HS-MW-6	HS-MW-7	HS-MW-8	HS-MW-9	HS-MW-10	HS-MW-11	HS-MW-13	HS-MW-15	HS-MW-16	HS-MW-17	HS-MW-19	CL-MW-1H	CL-MW-103
11/03/03	0	0	0.01	0.37	0.33	1.25	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/26/03	0	0	0.07	0.01	0.08	2.02	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/11/03	0	0	0.04	0.25	0.13	2.06	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/22/03	0	0	0.04	0	0	0.49	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	0.05	--
01/09/04	0.02	0	0.03	0.22	0.01	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/23/04	0	0	0.03	0.05	0	2.15	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/06/04	0	0	0.01	0.21	0.02	1.93	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/19/04	0	0	0.01	0.31	0.01	1.12	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/05/04	0	0	0.01	0.4	0.01	0.9	0	0	0	0	0	0	0.17	0	--	--	--	--	--	--	--	0.06	--
03/19/04	0	0	0.01	0.81	1.07	2.03	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/02/04	0	0	0.03	0.4	2.52	1.36	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/16/04	0	0	0.02	0.38	1.77	0.84	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/29/04	0	0	0.02	0.44	1.59	1.76	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/13/04	0	0	0.01	0.18	0.02	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/27/04	0	0	0.02	0.38	0.01	0.1	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/14/04	0	0.01	0.06	0.25	1.67	0.88	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/09/04	0	0.05	0.32	0.2	0.7	0.35	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/22/04	0	0.01	0.22	0.26	0.41	0.3	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/09/04	0	0.01	0.24	0.09	0.25	0.35	0	0	0	0	0	0	0.13	0	0	0	0	0	0	--	--	0.04	--
08/27/04	0	0.01	0.05	0.26	0.02	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/10/04	0.01	0.01	0.05	0.43	0.31	0.36	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/22/04	0.01	0.01	0.13	0.69	0.22	0.17	0	0	0	0	0	0	0.01	0	0	0	0	0	0	--	--	0.05	--
10/19/04	0	0.03	0.08	0.65	0.02	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/05/04	0	0.03	0.07	0.75	0.06	0.18	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/19/04	0	0.1	0.07	0.97	0.03	1.28	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/03/04	0	0.06	0.05	0.44	0.03	3.36	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/09/04	0	0.01	0.09	0.51	0.19	0.17	0	0	0	0	0	0	0.01	0	0	0	0	0	0	--	--	0.08	--
12/17/04	0	0.04	0.03	0.26	0.07	2.79	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/28/04	0	0.03	0.03	0.18	0.05	1.85	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/14/05	0	0.05	0.03	0.34	0.58	1.35	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/28/05	0	0.02	0.03	0.13	0.02	2.82	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/11/05	0	0.03	0.05	0.13	0.11	1.82	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/04/05	0	0.07	0.1	0.13	0.98	1.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/17/05	0	0.11	0.16	0.12	1.1	1.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/30/05	0	0.15	0.25	0.44	0.07	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0.11	--
04/15/05	0	0.1	0.14	0.40	0.02	1.87	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/29/05	0	0.15	0.22	0.49	1.23	2.29	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/11/05	0	0.2	0.28	0.24	1.59	1.72	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/25/05	0	0.02	0.33	0.24	0.74	0.69	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/09/05	0	0.28	0.44	0.19	0.37	0.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/24/05	0	0.27	0.52	0.19	0.31	0.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/05/05	0	0.28	0.25	0.29	0.46	0.36	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/22/05	0	0.3	0.42	0.08	0.49	0.38	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/05/05	0	0.32	0.55	0.11	0.12	0.43	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/19/05	0	0.27	0.17	0.02	0.1	0.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/02/05	0	0.31	0.25	0.12	0.17	0.36	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/14/05	0	0.28	0.26	0.14	0.2	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0.04	--
10/07/05	0	0.28	0.25	0.04	0.06	0.25	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/18/05	0	0.23	0.01	0.18	0.32	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/04/05	0	0.18	0.02	0.16	0.35	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/18/05	0	0.17	0.03	0.32	0.25	1.17	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/02/05	0	0.10	0.09	0.35	0.42	0.84	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/16/05	0	0.07	0.11	0.39	0.31	1.05	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/06/06	0	0.03	0.15	0.09	0.18	2.02	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--

Date	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	HS-MW-2	HS-MW-3	HS-MW-4	HS-MW-5	HS-MW-6	HS-MW-7	HS-MW-8	HS-MW-9	HS-MW-10	HS-MW-11	HS-MW-13	HS-MW-15	HS-MW-16	HS-MW-17	HS-MW-19	CL-MW-1H	CL-MW-103
01/19/06	0	0.03	0.18	0.16	0.3	3.96	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/03/06	0	0.03	0.2	0.02	0.13	2.75	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/17/06	0	0.01	0.21	0.08	0.71	4.73	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/09/06	0	0.01	0.2	0.09	0.6	0.75	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/31/06	0	0.03	0.27	0.16	0.29	0.74	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/14/06	0	0.01	0.24	0.10	0.37	0.25	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/27/06	0	0.02	0.26	0.2	0.59	0.25	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/11/06	0	0.02	0.37	0.23	0.5	0.35	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/25/06	0	0.01	0.19	0.15	0.12	0.32	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/06/06	0	0.02	0.17	0.26	0.15	0.21	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/07/06	0	0.03	0.31	0.3	0.43	0.28	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/21/06	0	0.05	0.09	0.24	0.43	0.18	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/02/06	0	0.07	0.18	0.03	0.39	0.21	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/15/06	0	0.07	0.2	0.01	0.32	0.24	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/01/06	0	0.08	0.16	0.02	0.47	0.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/15/06	0	0.07	0.19	0.01	0.28	0.12	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/29/06	0	0.05	0.18	0.03	0.24	0.3	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/21/06	0	0.1	0.2	0.03	0.14	0.11	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/10/06	0	0.04	0.03	0	0.05	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/08/06	0	0.03	0.2	0.04	0.33	2.23	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/18/07	0	0.01	0.08	0	0.09	3.07	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/30/07	0	0.01	0.26	0.05	0.25	1.3	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/13/07	0	0.02	0.3	0.1	0.58	1.19	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/25/07	0	0.01	0.23	0.11	0.33	0.58	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/06/07	0	0.03	0.08	0.08	0.32	0.29	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/27/07	0	0.02	0.02	0.03	0.32	0.17	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/07/07	0	0.01	0.04	0.06	0.35	0.26	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
08/24/07	0	0.02	0.06	0.07	0.57	0.25	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/07/07	0	0.02	0.03	0.09	0.1	0.38	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/28/07	0	0.02	0.03	0.02	0.13	0.33	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
10/19/07	0	0.01	0	0.13	0.03	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/03/07	0	0.35	0.01	0.1	0.18	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/15/07	0	0.02	0	0.14	0.21	0.03	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/30/07	0	0.03	0.03	0.19	0.23	0.02	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/04/08	0	0.02	0.02	0.01	0.08	0.01	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
04/09/08	0	0.01	0.15	0.2	0.2	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07/08/08	0	0.03	0	0.21	0.27	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
11/03/08	0	0.2	0	0.21	0.2	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
02/05/09	0	0.22	0	0.13	0.09	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
06/01/09	0	0.03	0	0.21	0.25	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/14/10	0.01	0.11	0.05	1.03	0.47	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/21/11	0	0.15	0	0.26	0.21	0.05	--	--	--	--	0.06 (Note 1)	--	--	--	--	--	--	--	--	--	--	--	--
06/15/11	0	1.09	0.02	0.09	0.06	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
09/22/11	0	0.43	0.06	0.28	0.28	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/13/11	0.01	0.35	0	0.19	0.08	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
03/26/12	0	0.11	0.33	0.07	0.42	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
05/03/12	--	--	--	--	--	--	--	--	0	0	0	0	--	0	--	--	0	0	0	0	--	0	--
05/08/12	--	--	--	--	--	--	--	--	Trace	--	--	Trace	--	--	--	--	--	--	--	--	--	--	--
07/17/12	--	--	--	--	--	--	--	--	0	0	0	0	0.16	0	--	--	0	0	0	0	0	0	Trace
08/09/12	--	--	--	--	--	--	--	--	0	0	0	0	0.19	0	--	--	0	0	0	0	0	0	0
09/24/12	0	0	0	0.46	0.1	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
12/12/12	0.01	0.5	0.02	0.01	1.00	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
01/15/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/22/13	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--

Date	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	HS-MW-2	HS-MW-3	HS-MW-4	HS-MW-5	HS-MW-6	HS-MW-7	HS-MW-8	HS-MW-9	HS-MW-10	HS-MW-11	HS-MW-13	HS-MW-15	HS-MW-16	HS-MW-17	HS-MW-19	CL-MW-1H	CL-MW-103
01/29/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/06/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LNAPL Frequency Statistics	**RW-1**	**RW-2**	**RW-3**	**RW-4**	**RW-5**	**RW-6**	**HS-MW-2**	**HS-MW-3**	**HS-MW-4**	**HS-MW-5**	**HS-MW-6**	**HS-MW-7**	**HS-MW-8**	**HS-MW-9**	**HS-MW-10**	**HS-MW-11**	**HS-MW-13**	**HS-MW-15**	**HS-MW-16**	**HS-MW-17**	**HS-MW-19**	**CL-MW-1H**	**CL-MW-103**
# Occasions Checked	198	198	198	153	153	153	11	11	15	14	210	15	12	13	5	5	8	8	8	3	2	14	2
0 feet LNAPL (%)	83%	55%	30%	3%	2%	14%	100%	100%	93%	100%	100%	93%	25%	100%	100%	100%	100%	100%	100%	100%	100%	21%	50%
Trace LNAPL (%)	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%
0.01 to 0.5 feet (%)	16%	44%	68%	84%	71%	52%	0%	0%	0%	0%	0%	0%	75%	0%	0%	0%	0%	0%	0%	0%	0%	79%	0%
> 0.5 to 1 feet (%)	1%	0%	2%	10%	12%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
> 1 feet (%)	0%	1%	0%	3%	15%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

[1] LNAPL reading at HS-MW-6 is presumed to be anomalous (field instrument error) based on absence of LNAPL in this well in all preceeding and successive dates measured.

Measurements are in feet. LNAPL thickness measured with a Solonist electric water/product interface meter.

Trace refers to indication of LNAPL on probe but thickness not measureable (less than 0.01 feet)

-- = not measured

Refer to Appendix B, Table B-6, for historical depth to groundwater elevation measurements

Table 6-2
Summary of Analytical Results for Oil and LNAPL Samples
R.G. Haley Site
Bellingham, Washington

Analytical Group (Units, see Notes)	Sample Source	UST Oil Samples			LNAPL/Oil From Seep, Monitoring Well or Test Pit				
	Sample Source	UST Oil (Sampled by Douglas Management)	UST Oil (Sampled by GeoEngineers)	UST Oil (Sampled by GeoEngineers)	TL-MW-2 (Sampled by GeoEngineers)	Beach Oil Seep (Sampled by Ecology)	TL-MW-3 (Sampled by GeoEngineers)	TL-MW-4 (Sampled by GeoEngineers)	Cornwall RITP-7 (Sampled by Landau)
	Laboratory Report Sample I.D	"Tank," 68089	BWT-TS-01	UST-061504	BWT-MW02-P01	"Beach Oil Seep," 108020	TL-MW-3-P01	TL-MW-4-P01	TP-7
	Sample Date	02/10/00	03/03/00	06/15/04	03/03/00	03/07/00	04/18/00	05/03/00	06/24/05
PCDDs (parts per trillion)	OCDD	--	--	**10,800,000 B**	--	**200,000,000**	**40,000,000 E**	--	--
	1,2,3,4,6,7,8- HpCDD	--	--	**2,890,000**	--	**19,000,000**	**8,100,000**	--	--
	1,2,3,4,7,8-HxCDD	--	--	**4,530**	--	500,000 U	**2,900**	--	--
	1,2,3,6,7,8-HxCDD	--	--	**183,000**	--	440,000 U	**310,000 E**	--	--
	1,2,3,7,8,9-HxCDD	--	--	**20,500**	--	380,000 U	**18,000**	--	--
	1,2,3,7,8-PeCDD	--	--	**764**	--	360,000 U	**700**	--	--
	2,3,7,8-TCDD	--	--	5 U	--	340,000 U	**140**	--	--
PCDFs (parts per trillion)	1,2,3,4,6,7,8-HpCDF		--	**167,000**	--	**1,300,000**	**1,400,000**	--	--
	1,2,3,4,7,8,9-HpCDF	--	--	**6,630**	--	240,000 U	**82,000**	--	--
	1,2,3,4,7,8-HxCDF	--	--	**12,900**	--	440,000 EMPC	**140,000**	--	--
	1,2,3,6,7,8-HxCDF	--	--	**6,850**	--	230,000 U	**25,000**	--	--
	1,2,3,7,8,9-HxCDF	--	--	**14,700**	--	230,000 U	**4,500**	--	--
	1,2,3,7,8-PeCDF	--	--	**7,150**	--	680,000 EMPC	**26,000**	--	--
	2,3,4,6,7,8-HxCDF	--	--	**17,200**	--	210,000 U	**22,000**	--	--
	2,3,4,7,8-PeCDF	--	--	**5,170**	--	130,000 U	**28,000**	--	--
	2,3,7,8-TCDF	--	--	**1,810 F**	--	290,000 U	**7,500 CON**	--	--
	OCDF	--	--	**93,000**	--	**6,300,000**	**7,500,000**	--	--
SVOCs (parts per billion)	1,2,4-Trichlorobenzene	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	1,2-Dichlorobenzene	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	1,4-Dichlorobenzene	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	2,3,4,5-Tetrachlorophenol	--	--	--	--	340 U	--	--	--
	2,3,5,6-Tetrachlorophenol	--	--	--	--	--	--	--	--
	2,4,5-Trichlorophenol	--	375,000 U	--	1,240 U	380 U	--	4,300 U	--
	2,4,6-Trichlorophenol	--	375,000 U	--	1,240 U	380 U	--	4,300 U	--
	2,4-Dichlorophenol	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	2,4-Dimethylphenol	--	750,000 U	--	1,240 U	--	--	4,300 U	--
	2,4-Dinitrophenol	--	1,880,000 U	--	2,490 U	--	--	4,300 U	--
	2,4-Dinitrotoluene	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	2,6-Dinitrotoluene	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	2-Chloronaphthalene	--	375,000 U	--	1,240 U	--	--	**130,000**	--
	2-Chlorophenol	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	2-Methylnaphthalene	--	**8,530,000**	--	**1,790**	--	--	**2,500,000**	**17,000,000**
	2-Nitroaniline	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	2-Nitrophenol	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	3,3'-Dichlorobenzidine	--	1,880,000 U	--	1,240 U	--	--	**71,000**	--
	3,5,5-Trimethyl-2-cyclohexene-1-one	--	--	--	--	--	--	--	--
	3-Nitroaniline	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	4,6-Dinitro-o-cresol	--	--	--	--	--	--	4,300 U	--
	4-Bromophenyl phenyl ether	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	4-Chlorophenyl phenyl ether	--	375,000 U	--	1,240 U	--	--	4,300 U	--

Analytical Group (Units, see Notes)	Sample Source	UST Oil Samples			LNAPL/Oil From Seep, Monitoring Well or Test Pit				
	Sample Source	UST Oil (Sampled by Douglas Management)	UST Oil (Sampled by GeoEngineers)	UST Oil (Sampled by GeoEngineers)	TL-MW-2 (Sampled by GeoEngineers)	Beach Oil Seep (Sampled by Ecology)	TL-MW-3 (Sampled by GeoEngineers)	TL-MW-4 (Sampled by GeoEngineers)	Cornwall RITP-7 (Sampled by Landau)
	Laboratory Report Sample I.D	"Tank," 68089	BWT-TS-01	UST-061504	BWT-MW02-P01	"Beach Oil Seep," 108020	TL-MW-3-P01	TL-MW-4-P01	TP-7
	Sample Date	02/10/00	03/03/00	06/15/04	03/03/00	03/07/00	04/18/00	05/03/00	06/24/05
SVOCs (parts per billion)	4-Nitrophenol	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	4-Nitroquinoline-n-oxide	--	--	--	--	--	--	--	--
	Acenaphthene	--	375,000 U	--	1,240 U	--	--	870 U	**670,000**
	Acenaphthylene	--	375,000 U	--	1,240 U	--	--	**950**	100,000 U
	Aniline	--	375,000 U	--	1,240 U	--	--	--	--
	Anthracene	--	**2,730,000**	--	1,240 U	--	--	**140,000**	100,000 U
	Benzo(ghi)perylene	--	375,000 U	--	1,240 U	--	--	**24,000**	100,000 U
	Benzoic acid	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	Benzyl alcohol	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Benzyl butyl phthalate	--	375,000 U	--	1,240 U	--	--	--	--
	Bis(2-chloroethoxy)methane	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Bis(2-chloroisopropyl) ether	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Carbazole	--	375,000 U	--	1,240 U	--	--	--	--
	Chlorophenols	--	--	--	--		--	--	--
	Di(2-ethylhexyl) phthalate	--	--	--	--	--	--	4,300 U	--
	Dibenzofuran	--	**390,000**	--	1,240 U	--	--	4,300 U	**280,000**
	Dibutyl phthalate	--	--	--	--	--	--	--	--
	Diethyl phthalate	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Dimethyl phthalate	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Di-n-octyl phthalate	--	375,000 U	--	1,240 U	--	--	**41,000**	--
	Fluoranthene	--	375,000 U	--	1,240 U	--	--	**130,000**	100,000 U
	Fluorene	--	**1,100,000**	--	**1,450**	--	--	**870,000**	**720,000**
	Hexachloro-1,3-butadiene	--	--	--	--	--	--	--	--
	Hexachlorobenzene	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	Hexachlorocyclopentadiene	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	Hexachloroethane	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	M-dichlorobenzene	--	--	--	--	--	--	4,300 U	--
	Naphthalene	--	**1,490,000**	--	1,240 U	--	--	**2,800,000**	**2,200,000**
	N-nitrosodi-n-propylamine	--	375,000 U	--	1,240 U	--	--	4,300 U	--
	N-nitrosodiphenylamine	--	1,880,000 U	--	1,240 U	--	--	4,300 U	--
	O-cresol	--	--	--	--	--	--	4,300 U	--
	P-chloroaniline	--	--	--	--	--	--	--	--
	P-chloro-m-cresol	--	--	--	--	--	--	4,300 U	--
	Pentachlorophenol	**62,000,000**	**68,500,000 J**	--	1,240 U	**2,100**	--	4,300 U	--
	Phenanthrene	--	**2,680,000**	--	**2,260**	--	--	**2,500,000**	**1,900,000**
	Pyrene	--	375,000 U	--	1,240 U	--	--	**100,000**	**120,000**
	Total phenol	--	375,000 U	--	1,240 U	--	--	--	--

Analytical Group (Units, see Notes)	Sample Source	UST Oil Samples			LNAPL/Oil From Seep, Monitoring Well or Test Pit				
	Sample Source	UST Oil (Sampled by Douglas Management)	UST Oil (Sampled by GeoEngineers)	UST Oil (Sampled by GeoEngineers)	TL-MW-2 (Sampled by GeoEngineers)	Beach Oil Seep (Sampled by Ecology)	TL-MW-3 (Sampled by GeoEngineers)	TL-MW-4 (Sampled by GeoEngineers)	Cornwall RITP-7 (Sampled by Landau)
	Laboratory Report Sample I.D	"Tank," 68089	BWT-TS-01	UST-061504	BWT-MW02-P01	"Beach Oil Seep," 108020	TL-MW-3-P01	TL-MW-4-P01	TP-7
	Sample Date	02/10/00	03/03/00	06/15/04	03/03/00	03/07/00	04/18/00	05/03/00	06/24/05
CPAHs (parts per billion)	Benzo(a)anthracene		375,000 U	--	1,240 U		--	**56,000**	100,000 U
	Benzo(a)pyrene	--	375,000 U	--	1,240 U	--	--	**49,000**	100,000 U
	Benzo(b)fluoranthene	--	375,000 U	--	1,240 U	--	--	**41,000**	100,000 U
	Benzo(k)fluoranthene	--	375,000 U	--	1,240 U	--	--	**21,000**	100,000 U
	Chrysene	--	375,000 U	--	1,240 U	--	--	870 U	100,000 U
	Dibenz(a,h)anthracene	--	1,880,000 U	--	1,240 U	--	--	**5,600**	100,000 U
	Indeno(1,2,3-cd)pyrene	--	375,000 U	--	1,240 U	--	--	**24,000**	100,000 U

Notes:

U = Not Detected

J = Estimated

CON = confirmation analysis

EMPC = estimated maximum probable concentration

B = analyte present in Method Blank

F = analyte confirmation on second column

Units shown have been converted from reporting units in corresponding lab reports in order to provide comparable units for interpretation purposes.

Dioxin data were originally reported in pg/g (picograms per gram) for UST-061504 and TL-MW3-P01 and in ug/g for Beach Oil Seep.

SVOC data were reported in ug/kg for TL-MW-4-P01 and "Beach Oil Seep," mg/kg for BWT-TS-01 and RITP-7; and in ug/l for "Tank" and BWT-MW02-P01

Unit conversions are as follows:

mg/kg and ug/g equivalent to parts per million; multiplied by 1,000 to convert to parts per billion and multiplied by 1,000,000 to convert to parts per trillion.

ug/kg and ug/l are equivalent to parts per billion (ppb)

pg/g and ng/kg are equivalent to parts per trillion

RITP-7 from Landau, 2013; Cornwall Landfill Site Remedial Investigation Report. RITP-7 sample also analyzed for PCBs (not detected <1 mg/kg), BETX (benzene 0.1U mg/kg, toluene 0.1U mg/kg, ethylbenzene 3.7 mg/kg and xylenes 18.7 mg/kg); and diesel-range hydrocarbons (990,000 mg/kg) and motor oil (10,000 mg/kg).

In several cases, samples were diluted due to elevated concentrations and matrix interference; refer to laboratory report for specifics.

Bolded values represent detected results

Analytical reports included in Appendix J

Table 6-3

Summary of LNAPL Recovery 2001 through February 2013

R.G. Haley Site

Bellingham, Washington

Well/Dates	TL-MW-2	TL-MW-3	TL-MW-4	TL-MW-5/5A	TL-MW-6	TL-MW-10	TL-MW-12	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	Total (Gallons)
2002 to 2009	80	78.3	56	5.8	9	0	0	3	0	21	13.3	59.3	78	
2010 to February 2013	9.2	2.2	4.0	2.6	2.0	0.8	2.1	0.0	0.6	0	0.3	0.3	0	
Total (Gallons) LNAPL and Oily Water Recovered by Manual Bailing	**89**	**81**	**60**	**8**	**11**	**1**	**2**	**3**	**1**	**21**	**14**	**60**	**78**	**428**

Notes:

Approximately 106 gallons of LNAPL were recovered in 2001/2002 from the oil recovery system utilizing pumping in selected wells.

Approximately 200 gallons of oil were recovered during the Soil Agitation Pilot Test in 2007

Total LNAPL recovered (2001 through February 2013) through oil recovery system, soil agitation pilot test and manual oil recovery is approximately 734 gallons

Quarterly oil recovery occurred in March, June, September and December. Field protocol involved removing LNAPL in wells with >0.5 feet of measureable LNAPL.

Quantity estimates based on recovered fluids using measuring cup or similar.

No recovery between June 2009 and November 2010 due to property ownership transition.

Table 6-4

Soil Analytical Data

R.G. Haley Site

Bellingham, Washington

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	AF-MW01-2 7/19/2004 2.5 - 4 ft	AF-MW01-5 7/19/2004 10 - 11.5 ft	AF-MW02-3 7/19/2004 5 - 6.5 ft	AF-MW02-5 7/19/2004 10 - 11.5 ft	AF-MW02-7 7/19/2004 15 - 16.5 ft	AF-SB01-2 7/19/2004 4 - 8 ft	AF-SB02-1 7/22/2004 0 - 4 ft	AF-SB04-1 7/22/2004 0 - 4 ft	AF-SB04-2 7/22/2004 4 - 8 ft	AF-SB04-3 7/22/2004 8 - 12 ft	AF-SB04-8 DUPE 7/22/2004 8 - 12 ft
METALS													
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	0.2 U	0.4 U	0.2 U	0.3 U	0.7 U	0.3 U	**0.6**	0.5 U	--	**0.3**	0.2 U
Chromium	mg/kg	**120000**	**37.7**	**23**	**50.2**	**43.1**	**19**	**39.5**	**38**	**51**	--	**34.4**	**41.9**
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	**60.8**	**29.5**	**31.7**	**47.3**	**70.5**	**31.4**	**75.2**	**56.7**	--	**48**	**44.1**
Lead	mg/kg	**81**	**29 J**	**15 J**	**5 J**	**19 J**	**14 J**	**89 J**	**84 J**	**27**	--	**42**	**44**
Mercury	mg/kg	**0.07**	**0.04**	0.1 U	0.04 U	0.06 U	0.07 U	0.08 U	**0.07**	**0.18**	--	**0.09**	**0.08**
Nickel	mg/kg	**1600**	**35**	**36**	**55**	**48**	**19**	**31**	**50**	**31**	--	**29**	**45**
Zinc	mg/kg	**85**	**62.9**	**58**	**43.3**	**75.5**	**46**	**87**	**237**	**64**	--	**77.5**	**76.8**
TPH													
Gasoline-range hydrocarbons	mg/kg	**100**	5.2 U	18 U	**500**	**80**	7.5 U	6.5 U	5.6 U	--	**490**	**170**	--
Diesel-range Hydrocarbons	mg/kg		**10 J**	--	**7100**	**270**	**160**	**19 J**	**200**	**55**	**1700**	**4200**	**2500**
Lube Oil-range Hydrocarbons	mg/kg		**43 J**	--	**310**	**22**	**76**	**120 J**	**150**	**300**	**940**	**1700**	**1100**
TPH (Sum)	mg/kg	**1534**	**53 JT**	--	**7410 T**	**292 T**	**236 T**	**139 JT**	**350 T**	**355 T**	**2640 T**	**5900 T**	**3600 T**
BTEX													
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	0.026 U	0.092 U	0.41 U	0.031 U	0.038 U	0.032 U	0.028 U	--	**0.82**	**0.093**	--
Toluene	mg/kg	**6.4**	0.026 U	0.092 U	**0.42**	0.031 U	0.038 U	0.032 U	0.028 U	--	0.028 U	0.029 U	--
Total Xylenes	mg/kg	**0.16**	0.039 U	0.136 U	**0.39**	0.0465 U	0.0565 U	0.0485 U	0.042 U	--	**0.222**	**0.0815**	--
D/F_COMBINED													
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--	--
PAHs													
1-Methylnaphthalene	ug/kg	**42**	**18**	15 U	--	**7100**	**160**	--	**120**	--	**52000**	**120000**	**73000**
2-Methylnaphthalene	ug/kg	**41**	**32**	15 U	--	**12000**	**260**	--	**110**	--	**96000**	**240000**	**140000**
Acenaphthene	ug/kg	**17**	**49**	15 U	--	**420**	**11**	--	9.4 U	--	**2600**	**4300**	**2500**
Acenaphthylene	ug/kg	**69**	7.2 U	15 U	--	**100**	9.8 U	--	**16**	--	**660**	**1100**	**620**
Anthracene	ug/kg	**220**	**51**	15 U	--	**120**	**12**	--	**24**	--	**650 J**	**1200 J**	**750 J**
Benzo(ghi)perylene	ug/kg	**31**	**11**	15 U	--	21 U	9.8 U	--	**110**	--	**210**	**70**	**61**
Fluoranthene	ug/kg	**160**	**280**	15 U	--	**65**	**13**	--	**240**	--	**870**	**1500**	**850**
Fluorene	ug/kg	**24**	**63**	15 U	--	**490**	**20**	--	**14**	--	**3700**	**7500**	**3500**
Naphthalene	ug/kg	**120**	7.2 U	15 U	--	21 U	**17**	--	**63**	--	**2000**	**15000**	**9200**
Phenanthrene	ug/kg	**100**	**310**	15 U	--	**1100**	**42**	--	**130**	--	**10000**	**20000**	**12000**
Pyrene	ug/kg	**1000**	**200**	15 U	--	**120**	**17**	--	**340**	--	**1500**	**2500**	**1500**

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	AF-MW01-2 7/19/2004 2.5 - 4 ft	AF-MW01-5 7/19/2004 10 - 11.5 ft	AF-MW02-3 7/19/2004 5 - 6.5 ft	AF-MW02-5 7/19/2004 10 - 11.5 ft	AF-MW02-7 7/19/2004 15 - 16.5 ft	AF-SB01-2 7/19/2004 4 - 8 ft	AF-SB02-1 7/22/2004 0 - 4 ft	AF-SB04-1 7/22/2004 0 - 4 ft	AF-SB04-2 7/22/2004 4 - 8 ft	AF-SB04-3 7/22/2004 8 - 12 ft	AF-SB04-8 DUPE 7/22/2004 8 - 12 ft
cPAHs													
Benzo(a)anthracene	ug/kg	**6.5**	**51**	15 U	--	21 U	9.8 U	--	**180**	--	**360**	**380**	**220**
Benzo(a)pyrene	ug/kg	**17**	**22**	15 U	--	21 U	9.8 U	--	**280**	--	**320**	**180**	**120**
Benzo(b)fluoranthene	ug/kg	**22**	**32**	15 U	--	21 U	9.8 U	--	**190**	--	**360**	**160**	**100**
Benzo(j,k)fluoranthene	ug/kg	**22**	**25**	15 U	--	21 U	9.8 U	--	**220**	--	**290**	**150**	**120**
Chrysene	ug/kg	**7.2**	**52**	15 U	--	**29**	9.8 U	--	**250**	--	**490**	**580**	**350**
Dibenzo(a,h)anthracene	ug/kg	**18**	7.2 U	15 U	--	21 U	9.8 U	--	**36**	--	**57**	60 U	38 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	**8.7**	15 U	--	21 U	9.8 U	--	**100**	--	**180**	60 U	**41**
cPAH TEQ	ug/kg	**137**	**34.55 T**	11.325 UT	--	**16.04 T**	7.399 UT	--	**355.1 T**	--	**449.6 T**	**260.8 T**	**173.5 T**
SVOCs													
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	**100**	150 U	280 U	**110**	98 U	--	94 U	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		72 U	150 U	280 U	91 U	98 U	--	94 U	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	72 U	150 U	**2000**	91 U	98 U	--	94 U	--	--	--	--
Dibutyl phthalate	ug/kg		72 U	150 U	280 U	91 U	98 U	--	94 U	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		72 U	150 U	280 U	91 U	98 U	--	94 U	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	AF-MW01-2 7/19/2004 2.5 - 4 ft	AF-MW01-5 7/19/2004 10 - 11.5 ft	AF-MW02-3 7/19/2004 5 - 6.5 ft	AF-MW02-5 7/19/2004 10 - 11.5 ft	AF-MW02-7 7/19/2004 15 - 16.5 ft	AF-SB01-2 7/19/2004 4 - 8 ft	AF-SB02-1 7/22/2004 0 - 4 ft	AF-SB04-1 7/22/2004 0 - 4 ft	AF-SB04-2 7/22/2004 4 - 8 ft	AF-SB04-3 7/22/2004 8 - 12 ft	AF-SB04-8 DUPE 7/22/2004 8 - 12 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	360 U	740 U	1400 U	450 U	490 U	--	470 U	--	400 U	**610 J**	**650 J**
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--	--
VOCs													
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	CL-MW-101-6-7 6/29/2012 6 - 7 ft	CL-MW-102-6-7 6/29/2012 6 - 7 ft	CL-MW-103-5-6.5 7/10/2012 5 - 6.5 ft	CL-MW-103-10-11.5 7/10/2012 10 - 11.5 ft	CL-MW-103-12.5-14 7/10/2012 12.5 - 14 ft	CL-MW-1D-8-10 6/17/2004 8 - 10 ft	CL-MW-1D-12-13 6/17/2004 12 - 13 ft	CL-MW-1H-6-7.5 (BH#1) 11/11/1985 6 - 7.5 ft	CL-MW-1H-7.5-9 (BH#1) 11/11/1985 7.5 - 9 ft	CL-MW-1H-9-10.5 (BH#1) 11/11/1985 9 - 10.5 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		100 J	3900	13000	3000 J	820 J	--	1270	--	--	--
Lube Oil-range Hydrocarbons	mg/kg		600	200	1700 J	21000	4700	--	2910	--	--	--
TPH (Sum)	mg/kg	**1534**	700 JT	4100 T	14700 JT	24000 JT	5520 JT	--	4180 T	--	--	--
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	3800	22000	180000	18000	2400	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	860	19000	260000	25000	3300	666000	--	--	--	--
Acenaphthene	ug/kg	**17**	210	2800	9700	1200	110	16200	--	--	--	--
Acenaphthylene	ug/kg	**69**	120	400	1900	270	27	4650	--	--	--	--
Anthracene	ug/kg	**220**	57	130 U	32 U	120	7.8	5550	--	--	--	--
Benzo(ghi)perylene	ug/kg	**31**	260	19	72	230	10	1810 U	--	--	--	--
Fluoranthene	ug/kg	**160**	330	300	1300	110	8.1	1820	--	--	--	--
Fluorene	ug/kg	**24**	110	1900	11000	1400	120	21200	--	--	--	--
Naphthalene	ug/kg	**120**	260	1300	4200	1400	390	54600	--	--	--	--
Phenanthrene	ug/kg	**100**	250	5200	34000	2000	160	49300	--	--	--	--
Pyrene	ug/kg	**1000**	370	620	3700	660	18	4050	--	--	--	--

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Analyte	Unit	Soil Screening Levels	CL-MW-101-6-7 6/29/2012 6 - 7 ft	CL-MW-102-6-7 6/29/2012 6 - 7 ft	CL-MW-103-5-6.5 7/10/2012 5 - 6.5 ft	CL-MW-103-10-11.5 7/10/2012 10 - 11.5 ft	CL-MW-103-12.5-14 7/10/2012 12.5 - 14 ft	CL-MW-1D-8-10 6/17/2004 8 - 10 ft	CL-MW-1D-12-13 6/17/2004 12 - 13 ft	CL-MW-1H-6-7.5 (BH#1) 11/11/1985 6 - 7.5 ft	CL-MW-1H-7.5-9 (BH#1) 11/11/1985 7.5 - 9 ft	CL-MW-1H-9-10.5 (BH#1) 11/11/1985 9 - 10.5 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	**250**	**82**	**270**	**320**	**7**	1810 U	--	--	--	--
Benzo(a)pyrene	ug/kg	**17**	**320**	**33**	**93**	**930**	**15**	1810 U	--	--	--	--
Benzo(b)fluoranthene	ug/kg	**22**	**360**	**46**	**160**	**230**	**12**	1810 U	--	--	--	--
Benzo(j,k)fluoranthene	ug/kg	**22**	**120**	**13**	**57**	**120**	**5.4**	1810 U	--	--	--	--
Chrysene	ug/kg	**7.2**	**300**	**92**	**460**	**490**	**17**	1810 U	--	--	--	--
Dibenzo(a,h)anthracene	ug/kg	**18**	**64**	**7.7**	32 U	**83**	4.4 U	1810 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	**280**	**21**	**43**	**190**	**5.3**	1810 U	--	--	--	--
cPAH TEQ	ug/kg	**137**	**430.4 T**	**50.89 T**	**152.2 T**	**1029.2 T**	**18.36 T**	1366.55 UT	--	--	--	--
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	3620 U	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	130 U	66 U	400 U	640 U	55 U	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		250 U	130 U	800 U	1300 U	110 U	1810 U	--	--	--	--
2,3-DICHLOROANILINE	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	130 U	66 U	400 U	640 U	55 U	1810 U	--	1600 U	48000 U	1600 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	2.3 U	2.5 U	5.9 U	2.4 U	2 U	1810 U	--	--	--	--
2,4-Dichlorophenol	ug/kg	**100**	130 U	66 U	400 U	640 U	55 U	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	130 U	**68**	400 U	640 U	55 U	--	--	330 U	9900 U	330 U
2,4-Dinitrophenol	ug/kg		2500 U	1300 U	8000 U	13000 U	1100 U	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2-Chloronaphthalene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2-Chlorophenol	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2-Nitroaniline	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
2-Nitrophenol	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		1300 U	660 U	4000 U	6400 U	550 U	--	--	--	--	--
3-Nitroaniline	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	1300 U	660 U	**26000**	6400 U	550 U	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4-Chloroaniline	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Aniline	ug/kg	**180,000**	250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Benzidine	ug/kg		2500 U	1300 U	8000 U	13000 U	1100 U	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		2500 U	1300 U	8000 U	13000 U	1100 U	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	250 U	130 U	**13000**	1300 U	**320**	--	--	**74 J**	9900 U	**50 J**
Butyl benzyl phthalate	ug/kg	**20**	130 U	66 U	400 U	**650**	55 U	--	--	--	--	--
Carbazole	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	130 U	66 U	400 U	640 U	55 U	**8090**	--	330 U	9900 U	330 U
Dibutyl phthalate	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	1300 U	660 U	4000 U	6400 U	550 U	--	--	--	--	--
Dimethyl phthalate	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Hexachlorobenzene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Hexachlorobutadiene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Hexachloroethane	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--

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Bold = detected value

Analyte	Unit	Soil Screening Levels	CL-MW-101-6-7 6/29/2012 6 - 7 ft	CL-MW-102-6-7 6/29/2012 6 - 7 ft	CL-MW-103-5-6.5 7/10/2012 5 - 6.5 ft	CL-MW-103-10-11.5 7/10/2012 10 - 11.5 ft	CL-MW-103-12.5-14 7/10/2012 12.5 - 14 ft	CL-MW-1D-8-10 6/17/2004 8 - 10 ft	CL-MW-1D-12-13 6/17/2004 12 - 13 ft	CL-MW-1H-6-7.5 (BH#1) 11/11/1985 6 - 7.5 ft	CL-MW-1H-7.5-9 (BH#1) 11/11/1985 7.5 - 9 ft	CL-MW-1H-9-10.5 (BH#1) 11/11/1985 9 - 10.5 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Isophorone	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Nitrobenzene	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	130 U	66 U	400 U	640 U	55 U	**22500**	--	330 U	9900 U	330 U
o-Cresol (2-methylphenol)	ug/kg	**20**	130 U	66 U	400 U	640 U	55 U	--	--	330 U	9900 U	330 U
O-DINITROBENZENE	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	330 U	9900 U	330 U
Pentachlorophenol	ug/kg	**6.3**	**5.6**	**76**	**830**	**7.9**	**11**	**4760**	--	**2600**	4800 U	**9800**
Phenol	ug/kg	**670**	250 U	130 U	800 U	1300 U	110 U	--	--	330 U	9900 U	330 U
Pyridine	ug/kg		2500 U	1300 U	8000 U	13000 U	1100 U	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		250 U	130 U	800 U	1300 U	110 U	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	CL-MW-1H-10.5-12.5 (BH#1) 11/11/1985 10.5 - 12.5 ft	CL-SB-101-4-5 6/25/2012 4.3 - 5 ft	CL-SB-101-6-7 6/25/2012 6.3 - 7 ft	CL-SB-102-4-5 6/25/2012 4.3 - 5 ft	CL-SB-102-9-10 6/25/2012 9.3 - 10 ft	CL-SB-102-13-14 6/25/2012 13.3 - 14 ft	CL-SB-103-4-5 6/25/2012 4.3 - 5 ft	CL-SB-103-8-9 6/25/2012 8 - 8.7 ft	CL-SB-103-14-15 6/25/2012 14 - 14.7 ft	HS-B-1-8.5 4/5/2000 5 - 5 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	**630**	**440**	**5100**	**29000**	**11**	**17**	**31000**	**27**	**11.5**
Lube Oil-range Hydrocarbons	mg/kg		--	16 UI	12 U	260 UI	**2800 J**	**41**	**39**	**1400 J**	**43**	25 U
TPH (Sum)	mg/kg	**1534**	--	**638 T**	**446 T**	**5230 T**	**31800 JT**	**52 T**	**56 T**	**32400 JT**	**70 T**	**24 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	**12000**	**2100**	**51000**	**450000**	**20**	**1700**	**300000**	**29**	--
2-Methylnaphthalene	ug/kg	**41**	--	**13000**	**930**	**83000**	**750000**	**37**	**2800**	**520000**	**47**	--
Acenaphthene	ug/kg	**17**	--	**1900**	**450**	**2800**	**13000**	5.2 U	**130**	**16000**	**11**	10 U
Acenaphthylene	ug/kg	**69**	--	**410**	**100**	**590**	260 U	5.2 U	**40**	**3100**	**14**	10 U
Anthracene	ug/kg	**220**	--	120 U	**450**	**2200**	260 U	5.2 U	**46**	540 U	**26**	10 U
Benzo(ghi)perylene	ug/kg	**31**	--	**29**	4.7 U	**45**	**300**	5.2 U	**17**	**260**	**17**	10 U
Fluoranthene	ug/kg	**160**	--	**180**	**21**	**490**	**2600**	**14**	**41**	**1500**	**79**	10 U
Fluorene	ug/kg	**24**	--	**2100**	**600**	**3400**	**14000**	5.2 U	**160**	**17000**	**18**	10 U
Naphthalene	ug/kg	**120**	--	**130**	**29**	**5000**	**15000**	5.2 U	**140**	**7000**	**7.8**	10 U
Phenanthrene	ug/kg	**100**	--	**8100**	**1900**	**9400**	**54000**	**8.6**	**410**	**52000**	**44**	**10.2**
Pyrene	ug/kg	**1000**	--	**350**	**49**	**1000**	**4500**	**13**	**66**	**6300**	**65**	10 U

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cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	**46**	4.7 U	**100**	**370**	**9.4**	**16**	**470**	**39**	10 U
Benzo(a)pyrene	ug/kg	**17**	--	**60**	4.7 U	**63**	**220**	**6.1**	**20**	**230**	**37**	10 U
Benzo(b)fluoranthene	ug/kg	**22**	--	**69**	4.7 U	**98**	**360**	**7.3**	**30**	**370**	**41**	10 U
Benzo(j,k)fluoranthene	ug/kg	**22**	--	**30**	4.7 U	**31**	**120**	5.2 U	**11**	**120**	**16**	10 U
Chrysene	ug/kg	**7.2**	--	**46**	**5.2**	**180**	**750**	**5.9**	**22**	**360**	**34**	10 U
Dibenzo(a,h)anthracene	ug/kg	**18**	--	**11**	4.7 U	**12**	10 U	5.2 U	5 U	**60**	**5.4**	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	**39**	4.7 U	**48**	**280**	5.2 U	**20**	**280**	**21**	10 U
cPAH TEQ	ug/kg	**137**	--	**79.96 T**	**3.577 T**	**93.7 T**	**341 T**	**8.609 T**	**28.17 T**	**363.6 T**	**49.58 T**	7.55 UT
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
1,2-Diphenylhydrazine	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
1,3-Dinitrobenzene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	100 U
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	50 U
2,3-DICHLOROANILINE	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	1600 U	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	50 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	2.2 U	2.2 U	2.4 U	4.9 U	2.4 U	2.4 U	**3.7**	2.4 U	50 U
2,4-Dichlorophenol	ug/kg	**100**	--	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
2,4-Dimethylphenol	ug/kg	**40**	330 U	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
2,4-Dinitrophenol	ug/kg		--	1200 U	1200 U	1300 U	2600 U	260 U	1300 U	5400 U	260 U	--
2,4-Dinitrotoluene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2,6-Dinitrotoluene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2-Chloronaphthalene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2-Chlorophenol	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2-Nitroaniline	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
2-Nitrophenol	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
3,3'-Dichlorobenzidine	ug/kg		--	580 U	590 U	630 U	1300 U	130 U	630 U	2700 U	130 U	--
3-Nitroaniline	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	580 U	590 U	630 U	1300 U	130 U	630 U	2700 U	130 U	--
4-Bromophenyl phenyl ether	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4-Chloro-3-Methylphenol	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4-Chloroaniline	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4-Chlorophenyl-Phenylether	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4-Nitroaniline	ug/kg	**50000**	--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Aniline	ug/kg	**180,000**	--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Benzene, 1,4-Dinitro-	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Benzidine	ug/kg		--	1200 U	1200 U	1300 U	2600 U	13 U	1300 U	5400 U	260 U	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	1200 U	1200 U	1300 U	2600 U	260 U	1300 U	5400 U	260 U	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Bis(2-Chloroethyl)Ether	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Bis(2-chloroisopropyl) ether	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	53 U	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Butyl benzyl phthalate	ug/kg	**20**	--	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
Carbazole	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	330 U	58 U	**130**	63 U	130 U	13 U	63 U	270 U	13 U	--
Dibutyl phthalate	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Diethyl phthalate	ug/kg	**64000000**	--	580 U	590 U	630 U	1300 U	130 U	630 U	2700 U	130 U	--
Dimethyl phthalate	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Di-N-Octyl Phthalate	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Hexachlorobenzene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Hexachlorobutadiene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Hexachlorocyclopentadiene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Hexachloroethane	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--

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Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Isophorone	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
m,p-Cresol	ug/kg	**670**	--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Nitrobenzene	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
N-Nitrosodimethylamine	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
N-Nitrosodi-n-propylamine	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
N-Nitrosodiphenylamine	ug/kg	**20**	330 U	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
o-Cresol (2-methylphenol)	ug/kg	**20**	330 U	58 U	59 U	63 U	130 U	13 U	63 U	270 U	13 U	--
O-DINITROBENZENE	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
p-Cresol (4-methylphenol)	ug/kg	**670**	330 U	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**700 J**	**250**	**100**	**190**	**730**	1.2 U	**260**	**430**	1.2 U	50 U
Phenol	ug/kg	**670**	330 U	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Pyridine	ug/kg		--	1200 U	1200 U	1300 U	2600 U	260 U	1300 U	5400 U	260 U	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	120 U	120 U	130 U	260 U	26 U	130 U	540 U	26 U	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-B-2-6.5 4/5/2000 6.5 - 6.5 ft	HS-DP-1-4-6 6/15/2004 4 - 6 ft	HS-DP-1-8-10 6/15/2004 8 - 10 ft	HS-DP-1-12-14 6/15/2004 12 - 14 ft	HS-DP-4-8-11 6/15/2004 8 - 11 ft	HS-DP-4-12-14 6/15/2004 12 - 14 ft	HS-DP-5B-0-2 6/15/2004 0 - 2 ft	HS-DP-5B-8-10 6/15/2004 8 - 10 ft	HS-DP-5B-12-16 6/15/2004 12 - 16 ft	HS-DP-5B-16-19 6/15/2004 16 - 19 ft
METALS												
Arsenic	mg/kg	**20**	--	**4.35**	**7.39**	**7.67**	--	--	**3.29**	**1.54**	**3.42**	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	**36.7**	**41.4**	**68.3**	--	--	**13.2**	**19.1**	**43.3**	--
Chromium, Hexavalent	mg/kg		--	2 U	1.9 U	1.7 U	--	--	2 U	1.8 U	1.6 U	--
Copper	mg/kg	**36**	--	**30.8**	**1030**	**65**	--	--	**34**	**9.58**	**27.5**	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**420**	--	**4220**	**180**	**12200**	**1540**	--	**7500**	**690 J**	**27**
Lube Oil-range Hydrocarbons	mg/kg		**707**	--	**189**	**44**	**356**	**41.2**	--	**373**	**96.1**	**28**
TPH (Sum)	mg/kg	**1534**	**1127 T**	--	**4409 T**	**224 T**	**12556 T**	**1581.2 T**	--	**7873 T**	**786.1 JT**	**55 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	**442000**	**275000**	**1170000**	**486000**	--	**477000**	--	**111000**
Acenaphthene	ug/kg	**17**	100 U	--	**14700**	**827**	**33200**	**3630**	--	**14500**	--	**300**
Acenaphthylene	ug/kg	**69**	**133**	--	330 U	330 U	**7470**	**825**	--	**3040**	--	**68.7**
Anthracene	ug/kg	**220**	**185**	--	**3050**	330 U	**9080**	**1000**	--	**3850**	--	**30.9**
Benzo(ghi)perylene	ug/kg	**31**	**267**	--	330 U	330 U	922 U	330 U	--	330 U	--	**18.9**
Fluoranthene	ug/kg	**160**	**677**	--	**2210**	330 U	**5580**	**543**	--	**2060**	--	**55.8**
Fluorene	ug/kg	**24**	100 U	--	**19600**	**1120**	**42800**	**4440**	--	**17600**	--	**275**
Naphthalene	ug/kg	**120**	**379**	--	**48700**	**794**	**61400**	**5730**	--	**50200**	--	**913**
Phenanthrene	ug/kg	**100**	**666**	--	**43800**	**2360**	**98600**	**51500**	--	**41300**	--	**282**
Pyrene	ug/kg	**1000**	**697**	--	**4810**	330 U	**10600**	**1170**	--	**4100**	--	**53.3**

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-B-2-6.5 4/5/2000 6.5 - 6.5 ft	HS-DP-1-4-6 6/15/2004 4 - 6 ft	HS-DP-1-8-10 6/15/2004 8 - 10 ft	HS-DP-1-12-14 6/15/2004 12 - 14 ft	HS-DP-4-8-11 6/15/2004 8 - 11 ft	HS-DP-4-12-14 6/15/2004 12 - 14 ft	HS-DP-5B-0-2 6/15/2004 0 - 2 ft	HS-DP-5B-8-10 6/15/2004 8 - 10 ft	HS-DP-5B-12-16 6/15/2004 12 - 16 ft	HS-DP-5B-16-19 6/15/2004 16 - 19 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	**267**	--	**599**	330 U	**1430**	330 U	--	**602**	--	**25.8**
Benzo(a)pyrene	ug/kg	**17**	**267**	--	330 U	330 U	922 U	330 U	--	330 U	--	**20.6**
Benzo(b)fluoranthene	ug/kg	**22**	**349**	--	330 U	330 U	**1020**	330 U	--	330 U	--	**17.2**
Benzo(j,k)fluoranthene	ug/kg	**22**	100 U	--	330 U	330 U	922 U	330 U	--	330 U	--	**10.3**
Chrysene	ug/kg	**7.2**	**246**	--	**857**	330 U	**2270**	330 U	--	**853**	--	**21.5**
Dibenzo(a,h)anthracene	ug/kg	**18**	100 U	--	330 U	330 U	922 U	330 U	--	330 U	--	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	**359**	--	330 U	330 U	922 U	330 U	--	330 U	--	**13.7**
cPAH TEQ	ug/kg	**137**	**376.96 T**	--	**299.47 T**	249.15 UT	**867 T**	249.15 UT	--	**299.73 T**	--	**28.015 T**
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	500 U	--	660 U	660 U	1840 U	660 U	--	660 U	--	660 U
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		250 U	--	330 U	330 U	922 U	330 U	--	330 U	--	330 U
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	250 U	--	330 U	330 U	922 U	330 U	--	330 U	--	330 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	250 U	--	330 U	330 U	922 U	330 U	--	330 U	--	330 U
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	--	330 U	330 U	922 U	**579**	--	330 U	--	330 U
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**HS-B-2-6.5 4/5/2000 6.5 - 6.5 ft**	**HS-DP-1-4-6 6/15/2004 4 - 6 ft**	**HS-DP-1-8-10 6/15/2004 8 - 10 ft**	**HS-DP-1-12-14 6/15/2004 12 - 14 ft**	**HS-DP-4-8-11 6/15/2004 8 - 11 ft**	**HS-DP-4-12-14 6/15/2004 12 - 14 ft**	**HS-DP-5B-0-2 6/15/2004 0 - 2 ft**	**HS-DP-5B-8-10 6/15/2004 8 - 10 ft**	**HS-DP-5B-12-16 6/15/2004 12 - 16 ft**	**HS-DP-5B-16-19 6/15/2004 16 - 19 ft**
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	330 U	330 U	922 U	330 U	--	330 U	--	330 U
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	250 U	--	**2990**	**844**	**6050**	500 U	--	**1980**	--	50 U
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-DP-6-8-10 6/15/2004 8 - 10 ft	HS-DP-8-8-11 6/15/2004 8 - 10 ft	HS-DP-9-8-9 6/15/2004 8 - 9 ft	HS-DP-10-7-8 6/21/2004 7 - 8 ft	HS-DP-12-8-9 6/16/2004 8 - 9 ft	HS-DP-14A-4-8 6/18/2004 4 - 8 ft	HS-HA-1-0-1 6/14/2004 0 - 1 ft	HS-HA-2-0-1 6/14/2004 0 - 1 ft	HS-HA-3-0-1 6/14/2004 0 - 1 ft	HS-HA-4-0-1 6/14/2004 0 - 1 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**826**	**3860**	**13.4**	**172**	**214**	--	10 U	10 U	**23.5**	**10.7**
Lube Oil-range Hydrocarbons	mg/kg		**728**	**337 J**	**38.1**	**464**	**43.6**	--	**25.5**	25 U	**68.8**	25 U
TPH (Sum)	mg/kg	**1534**	**1554 T**	**4197 JT**	**51.5 T**	**636 T**	**257.6 T**	--	**30.5 T**	17.5 UT	**92.3 T**	**23.2 T**
BTEX												
Benzene	mg/kg	**0.0014**	0.03 UJ	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	0.1 UJ	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	0.1 UJ	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	0.3 UJ	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	**3110**	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	**501**	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	**37.2**	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	25 U	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	**37.8**	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	**97.5**	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	25 U	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	25 U	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	25 U	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	25 U	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	25 U	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	25 U	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	25 U	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	5 U	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	5 U	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	**34800**	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	**2210**	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	**86.74 T**	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	**636000**	**174**	--	**1810**	--	--	--	--	**24.5**
Acenaphthene	ug/kg	**17**	--	**16400**	10 U	--	**286**	--	--	--	--	10 U
Acenaphthylene	ug/kg	**69**	--	**3560**	10 U	--	10 U	--	--	--	--	10 U
Anthracene	ug/kg	**220**	--	330 U	10 U	--	**43.1**	--	--	--	--	10 U
Benzo(ghi)perylene	ug/kg	**31**	--	330 U	**22.1**	--	**32.8**	--	--	--	--	**22.1**
Fluoranthene	ug/kg	**160**	--	**997**	**26.2**	--	**111**	--	--	--	--	**31.1**
Fluorene	ug/kg	**24**	--	**12700**	10 U	--	**272**	--	--	--	--	10 U
Naphthalene	ug/kg	**120**	--	**87900**	**30.3**	--	10 U	--	--	--	--	**14.7**
Phenanthrene	ug/kg	**100**	--	**15100**	**19.7**	--	**214**	--	--	--	--	**27**
Pyrene	ug/kg	**1000**	--	**1290**	**28.7**	--	**61.5**	--	--	--	--	**27**

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**HS-DP-6-8-10 6/15/2004 8 - 10 ft**	**HS-DP-8-8-11 6/15/2004 8 - 10 ft**	**HS-DP-9-8-9 6/15/2004 8 - 9 ft**	**HS-DP-10-7-8 6/21/2004 7 - 8 ft**	**HS-DP-12-8-9 6/16/2004 8 - 9 ft**	**HS-DP-14A-4-8 6/18/2004 4 - 8 ft**	**HS-HA-1-0-1 6/14/2004 0 - 1 ft**	**HS-HA-2-0-1 6/14/2004 0 - 1 ft**	**HS-HA-3-0-1 6/14/2004 0 - 1 ft**	**HS-HA-4-0-1 6/14/2004 0 - 1 ft**
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	330 U	**13.1**	--	**18.5**	--	--	--	--	**25.4**
Benzo(a)pyrene	ug/kg	**17**	--	330 U	**14.8**	--	**21.5**	--	--	--	--	**18**
Benzo(b)fluoranthene	ug/kg	**22**	--	330 U	**25.4**	--	**21.5**	--	--	--	--	**23.7**
Benzo(j,k)fluoranthene	ug/kg	**22**	--	330 U	**11.5**	--	**25.6**	--	--	--	--	**12.3**
Chrysene	ug/kg	**7.2**	--	330 U	**20.5**	--	**30.8**	--	--	--	--	**24.5**
Dibenzo(a,h)anthracene	ug/kg	**18**	--	330 U	10 U	--	10 U	--	--	--	--	**10.6**
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	330 U	**17.2**	--	**25.6**	--	--	--	--	**18**
cPAH TEQ	ug/kg	**137**	--	249.15 UT	**22.225 T**	--	**31.428 T**	--	--	--	--	**27.245 T**
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	660 U	660 U	--	660 U	--	--	--	--	660 U
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	330 U	330 U	--	330 U	--	--	--	--	330 U
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	330 U	330 U	--	330 U	--	--	--	--	330 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	330 U	330 U	--	330 U	--	--	--	--	330 U
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	**2320**	330 U	--	330 U	--	--	--	--	330 U
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-DP-6-8-10 6/15/2004 8 - 10 ft	HS-DP-8-8-11 6/15/2004 8 - 10 ft	HS-DP-9-8-9 6/15/2004 8 - 9 ft	HS-DP-10-7-8 6/21/2004 7 - 8 ft	HS-DP-12-8-9 6/16/2004 8 - 9 ft	HS-DP-14A-4-8 6/18/2004 4 - 8 ft	HS-HA-1-0-1 6/14/2004 0 - 1 ft	HS-HA-2-0-1 6/14/2004 0 - 1 ft	HS-HA-3-0-1 6/14/2004 0 - 1 ft	HS-HA-4-0-1 6/14/2004 0 - 1 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	**12400**	330 U	--	3300 U	--	--	--	--	330 U
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	--	**1530**	**86.9**	--	**117**	--	--	--	--	**110**
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	10 U	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	10 U	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		500 UJ	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	10 U	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	5 U	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	5 U	--	--	--	--

Yellow Fill indicates detected result > the screening level
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U = Not Detected; J = Estimated Value; T = summed result
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Analyte	Unit	Soil Screening Levels	HS-HA-5-0-1 6/14/2004 0 - 1 ft	HS-MW-2-A (BH#2; MW-2 [E&E]) 11/11/1985 6 - 7.5 ft	HS-MW-2-B (BH#2; MW-2 [E&E]) 11/11/1985 7.5 - 9 ft	HS-MW-2-C (BH#2; MW-2 [E&E]) 11/11/1985 9 - 10.5 ft	HS-MW-2-D (BH#2; MW-2 [E&E]) 11/11/1985 10.5 - 12.5 ft	HS-MW-3-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-4-7 4/4/2000 7 - 7 ft	HS-MW-5-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-6-6.5 4/3/2000 6.5 - 6.5 ft	HS-MW-6-29 4/3/2000 29 - 29 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**39**	--	--	--	--	**1060**	**8910**	**61800**	**48.1**	10 U
Lube Oil-range Hydrocarbons	mg/kg		**88.7**	--	--	--	--	**231**	**4250**	8610 U	**136**	25 U
TPH (Sum)	mg/kg	**1534**	**127.7 T**	--	--	--	--	**1291 T**	**13160 T**	**66105 T**	**184.1 T**	17.5 UT
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	**12000 J**	**23000**	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	**1400**	**2500 J**	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	**96**	**130**	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	**20**	**15**	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	**180**	**260**	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	**590**	**1600**	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	**40**	**66**	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	**55**	**74**	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	**6**	**14**	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	**7.4**	**4.5 J**	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	**43**	**84**	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	**41**	**94**	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	**52**	**83**	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	**1.8**	0.36 U	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	23 U	29 U	--	--	--
OCDD	ng/kg		--	--	--	--	--	**110000 J**	**190000**	--	--	--
OCDF	ng/kg		--	--	--	--	--	**6600 J**	**4500**	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	**290.38 T**	**560.5 T**	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/kg	**17**	--	--	--	--	--	**1160**	**6130**	**75500**	50 U	--
Acenaphthylene	ug/kg	**69**	--	--	--	--	--	50 U	1000 U	**27800**	50 U	--
Anthracene	ug/kg	**220**	--	--	--	--	--	**928**	**2340**	**35200**	50 U	--
Benzo(ghi)perylene	ug/kg	**31**	--	--	--	--	--	**50.9**	1000 U	8520 U	50 U	--
Fluoranthene	ug/kg	**160**	--	--	--	--	--	**247**	1000 U	8520 U	50 U	--
Fluorene	ug/kg	**24**	--	--	--	--	--	**1660**	**8230**	**73300**	50 U	--
Naphthalene	ug/kg	**120**	--	--	--	--	--	**3810**	**28200**	**361000**	50 U	--
Phenanthrene	ug/kg	**100**	--	--	--	--	--	**4730**	**18900**	**93700**	50 U	--
Pyrene	ug/kg	**1000**	--	--	--	--	--	**411**	**1050**	8520 U	**50.3**	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-HA-5-0-1 6/14/2004 0 - 1 ft	HS-MW-2-A (BH#2; MW-2 [E&E]) 11/11/1985 6 - 7.5 ft	HS-MW-2-B (BH#2; MW-2 [E&E]) 11/11/1985 7.5 - 9 ft	HS-MW-2-C (BH#2; MW-2 [E&E]) 11/11/1985 9 - 10.5 ft	HS-MW-2-D (BH#2; MW-2 [E&E]) 11/11/1985 10.5 - 12.5 ft	HS-MW-3-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-4-7 4/4/2000 7 - 7 ft	HS-MW-5-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-6-6.5 4/3/2000 6.5 - 6.5 ft	HS-MW-6-29 4/3/2000 29 - 29 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Benzo(a)pyrene	ug/kg	**17**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Benzo(b)fluoranthene	ug/kg	**22**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Benzo(j,k)fluoranthene	ug/kg	**22**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Chrysene	ug/kg	**7.2**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Dibenzo(a,h)anthracene	ug/kg	**18**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	--	--	--	--	50 U	1000 U	8520 U	50 U	--
cPAH TEQ	ug/kg	**137**	--	--	--	--	--	37.75 UT	755 UT	6432.6 UT	37.75 UT	--
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	1000 U	2000 U	3410 U	500 U	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	500 U	1000 U	1700 U	250 U	--
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	32000 U	64000 U	32000 U	**190 J**	500 U	1000 U	1700 U	250 U	--
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	--	500 U	1000 U	1700 U	250 U	--
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	6600 U	13000 U	**15000**	**910**	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	6600 U	**4200 j**	6600 U	100 U	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	**2300 J**	13000 U	6600 U	330 U	--	--	--	--	--
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**HS-HA-5-0-1 6/14/2004 0 - 1 ft**	**HS-MW-2-A (BH#2; MW-2 [E&E]) 11/11/1985 6 - 7.5 ft**	**HS-MW-2-B (BH#2; MW-2 [E&E]) 11/11/1985 7.5 - 9 ft**	**HS-MW-2-C (BH#2; MW-2 [E&E]) 11/11/1985 9 - 10.5 ft**	**HS-MW-2-D (BH#2; MW-2 [E&E]) 11/11/1985 10.5 - 12.5 ft**	**HS-MW-3-6.5 4/4/2000 6.5 - 6.5 ft**	**HS-MW-4-7 4/4/2000 7 - 7 ft**	**HS-MW-5-6.5 4/4/2000 6.5 - 6.5 ft**	**HS-MW-6-6.5 4/3/2000 6.5 - 6.5 ft**	**HS-MW-6-29 4/3/2000 29 - 29 ft**
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	6600 U	**15000**	6600 U	330 U	--	--	--	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	6600 U	13000 U	6600 U	**610**	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	6600 U	13000 U	6600 U	**870**	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	--	**32000**	64000 U	32000 U	**8400**	**5690**	**11200**	**2700**	**1410**	--
Phenol	ug/kg	**670**	--	6600 U	13000 U	**12000**	**3000**	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
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Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-MW-7-9 4/5/2000 9 - 9 ft	HS-MW-8-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-9-9 4/5/2000 9 - 9 ft	HS-MW-10-12-13 6/16/2004 12 - 13 ft	HS-MW-11DA-4-8 (HS-MW-11; HS-MW-11D) 6/16/2004 4 - 8 ft	HS-MW-11DA-8-12 (HS-MW-11; HS-MW-11D) 6/16/2004 8 - 12 ft	HS-MW-11DA-12-16 (HS-MW-11; HS-MW-11D) 6/16/2004 12 - 16 ft	HS-MW-13D-8-10 (HS-MW-13D) 6/16/2004 8 - 10 ft	HS-MW-15A-8-10 (HS-MW-15) 6/18/2004 8 - 10 ft	HS-MW-16-9-10 6/17/2004 9 - 10 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**1430**	**3910**	**508**	**2640**	**986**	**905**	**61.2**	**1990**	--	**41.1**
Lube Oil-range Hydrocarbons	mg/kg		**39.8**	**466**	**678**	**5390**	**246**	**140**	83.1 U	125 U	--	**110**
TPH (Sum)	mg/kg	**1534**	**1469.8 T**	**4376 T**	**1186 T**	**8030 T**	**1232 T**	**1045 T**	**102.75 T**	**2052.5 T**	--	**151.1 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	0.0721 U	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	0.24 U	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	0.24 U	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	0.721 U	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	--	**17600 J**	**133000**	**129000**	**5760**	**91800**	20 U	--
Acenaphthene	ug/kg	**17**	**1850**	**5630**	25.8 U	**653**	**3240**	**4070**	**169**	**3280**	20 U	--
Acenaphthylene	ug/kg	**69**	50 U	**2160**	25.8 U	**135**	**896**	**1100**	33.2 U	**815**	20 U	--
Anthracene	ug/kg	**220**	**1770**	**3120**	25.8 U	**828**	**1120**	**1000**	**48.4**	**9030 J**	20 U	--
Benzo(ghi)perylene	ug/kg	**31**	50 U	**202**	25.8 U	**398**	330 U	748 U	33.2 U	**52.4**	20 U	--
Fluoranthene	ug/kg	**160**	**246**	**735**	25.8 U	**127**	**428**	748 U	**41.8**	**364**	20 U	--
Fluorene	ug/kg	**24**	**2830**	**7890**	25.8 U	**677**	**4110**	**5230**	**213**	**3660**	20 U	--
Naphthalene	ug/kg	**120**	**2340**	**12200**	**27.5**	**5490**	**7870**	**6400**	**389**	**3460**	20 U	--
Phenanthrene	ug/kg	**100**	**8040**	**18300**	25.8 U	**804**	**9640**	**13100**	**444**	**8750 J**	20 U	--
Pyrene	ug/kg	**1000**	**489**	**1270**	25.8 U	**963 J**	**1010**	**1340**	**52.8**	**719**	20 U	--

Yellow Fill indicates detected result > the screening level
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U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-MW-7-9 4/5/2000 9 - 9 ft	HS-MW-8-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-9-9 4/5/2000 9 - 9 ft	HS-MW-10-12-13 6/16/2004 12 - 13 ft	HS-MW-11DA-4-8 (HS-MW-11; HS-MW-11D) 6/16/2004 4 - 8 ft	HS-MW-11DA-8-12 (HS-MW-11; HS-MW-11D) 6/16/2004 8 - 12 ft	HS-MW-11DA-12-16 (HS-MW-11; HS-MW-11D) 6/16/2004 12 - 16 ft	HS-MW-13D-8-10 (HS-MW-13D) 6/16/2004 8 - 10 ft	HS-MW-15A-8-10 (HS-MW-15) 6/18/2004 8 - 10 ft	HS-MW-16-9-10 6/17/2004 9 - 10 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	50 U	**165**	25.8 U	**1240**	330 U	748 U	33.2 U	**128**	20 U	–
Benzo(a)pyrene	ug/kg	**17**	50 U	**165**	25.8 U	**549**	330 U	748 U	**39.6**	**70.8**	20 U	–
Benzo(b)fluoranthene	ug/kg	**22**	50 U	**202**	25.8 U	**525**	330 U	748 U	33.2 U	**105**	20 U	–
Benzo(j,k)fluoranthene	ug/kg	**22**	50 U	**110**	25.8 U	**700**	330 U	748 U	33.2 U	**140**	20 U	–
Chrysene	ug/kg	**7.2**	**71**	**303**	25.8 U	**1320**	330 U	748 U	**68.2**	**138**	20 U	–
Dibenzo(a,h)anthracene	ug/kg	**18**	50 U	100 U	25.8 U	**509**	330 U	748 U	33.2 U	**25.7**	20 U	–
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	50 U	100 U	25.8 U	**310**	330 U	748 U	33.2 U	**47.2**	20 U	–
cPAH TEQ	ug/kg	**137**	**38.21 T**	**225.73 T**	19.479 UT	**890.6 T**	249.15 UT	564.74 UT	**48.582 T**	**116.77 T**	15.1 UT	–
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
1,2-Diphenylhydrazine	ug/kg		–	–	–	–	–	–	–	–	–	–
1,3-Dinitrobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	100 U	1000 U	258 U	7930 U	660 U	1500 U	2190 U	660 U	0.66 UJ	–
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	ug/kg		50 U	500 U	129 U	3970 U	330 U	748 U	1100 U	330 U	20 UJ	–
2,3-DICHLOROANILINE	ug/kg		–	–	–	–	–	–	–	–	–	–
2,4,5-Trichlorophenol	ug/kg	**8000000**	50 U	500 U	129 U	3970 U	330 U	748 U	1100 U	330 U	20 UJ	–
2,4,6-Trichlorophenol	ug/kg	**6.3**	50 U	500 U	129 U	3970 U	330 U	748 U	1100 U	330 U	20 UJ	–
2,4-Dichlorophenol	ug/kg	**100**	–	–	–	–	–	–	–	–	–	–
2,4-Dimethylphenol	ug/kg	**40**	–	–	–	–	–	–	–	–	–	–
2,4-Dinitrophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
2,4-Dinitrotoluene	ug/kg		–	–	–	–	–	–	–	–	–	–
2,6-Dinitrotoluene	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Chloronaphthalene	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Chlorophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Nitroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Nitrophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
3,3'-Dichlorobenzidine	ug/kg		–	–	–	–	–	–	–	–	–	–
3-Nitroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	–	–	–	–	–	–	–	–	–	–
4-Bromophenyl phenyl ether	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chloro-3-Methylphenol	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chloroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chlorophenyl-Phenylether	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Nitroaniline	ug/kg	**50000**	–	–	–	–	–	–	–	–	–	–
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–
Aniline	ug/kg	**180,000**	–	–	–	–	–	–	–	–	–	–
Benzene, 1,4-Dinitro-	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzidine	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzyl Alcohol	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Chloroethoxy)Methane	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Chloroethyl)Ether	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-chloroisopropyl) ether	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	–	–	–	–	–	–	–	–	–	–
Butyl benzyl phthalate	ug/kg	**20**	–	–	–	–	–	–	–	–	–	–
Carbazole	ug/kg		–	–	–	–	–	–	–	–	–	–
Chlorinated Phenols	ug/kg		–	–	–	–	–	–	–	–	–	–
Dibenzofuran	ug/kg	**20**	–	–	–	3970 U	**1620**	748 U	1100 U	**596**	20 U	–
Dibutyl phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Diethyl phthalate	ug/kg	**64000000**	–	–	–	–	–	–	–	–	–	–
Dimethyl phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Di-N-Octyl Phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorobutadiene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorocyclopentadiene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachloroethane	ug/kg		–	–	–	–	–	–	–	–	–	–

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-MW-7-9 4/5/2000 9 - 9 ft	HS-MW-8-6.5 4/4/2000 6.5 - 6.5 ft	HS-MW-9-9 4/5/2000 9 - 9 ft	HS-MW-10-12-13 6/16/2004 12 - 13 ft	HS-MW-11DA-4-8 (HS-MW-11; HS-MW-11D) 6/16/2004 4 - 8 ft	HS-MW-11DA-8-12 (HS-MW-11; HS-MW-11D) 6/16/2004 8 - 12 ft	HS-MW-11DA-12-16 (HS-MW-11; HS-MW-11D) 6/16/2004 12 - 16 ft	HS-MW-13D-8-10 (HS-MW-13D) 6/16/2004 8 - 10 ft	HS-MW-15A-8-10 (HS-MW-15) 6/18/2004 8 - 10 ft	HS-MW-16-9-10 6/17/2004 9 - 10 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	--	3970 U	**4760**	**4440**	1100 U	**3230**	20 U	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**209**	**542**	129 U	**1700 J**	**1030**	**1390**	166 U	**907**	20 UJ	--
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	1200 U	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	HS-MW-17-4-5 6/27/2012 4 - 5 ft	HS-MW-17-16-17 6/27/2012 16 - 17 ft	HS-MW-19-1.5-2.5 7/10/2012 1.5 - 2.5 ft	HS-MW-19-10-11.5 7/10/2012 10 - 11.5 ft	HS-MW-19-12.5-14 7/10/2012 12.5 - 14 ft	HS-SB-18-7.5-9 7/11/2012 7.5 - 9 ft	HS-SB-18-10-11.5 7/11/2012 10 - 11.5 ft	HS-SB-18-15-16.5 7/11/2012 15 - 16.5 ft	HS-SB-101-4-5 6/26/2012 4 - 5 ft	HS-SB-101-9-10 6/26/2012 9 - 10 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	**82 J**	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**13**	**4.6**	--	**1600**	**180 J**	**920**	**4200**	**1300**	**19**	**27**
Lube Oil-range Hydrocarbons	mg/kg		**21**	15 U	--	**610**	**770**	**410**	**550**	**390**	**35**	**59**
TPH (Sum)	mg/kg	**1534**	**34 T**	**12.1 T**	--	**2210 T**	**950 JT**	**1330 T**	**4750 T**	**1690 T**	**54 T**	**86 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	**3140000 J**	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	**144000**	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	**8490**	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	**69800**	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	**3960**	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	**88600**	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	**2390**	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	**56400**	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	**788 J**	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	**36400**	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	**485 J**	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	**3770**	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	**777 J**	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	**3790**	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	**325**	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	**7640000 R**	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	**976000**	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	**98550.65 JT**	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	**14**	6.1 U	--	**29000**	**970**	**28000**	**82000**	**33000**	**48**	**270**
2-Methylnaphthalene	ug/kg	**41**	**14**	6.1 U	--	**39000**	**1100**	**47000**	**140000**	**54000**	**45**	**140**
Acenaphthene	ug/kg	**17**	4.5 U	6.1 U	--	**2400**	**86**	**1900**	**5200**	**2100**	**6.2**	**20**
Acenaphthylene	ug/kg	**69**	4.5 U	6.1 U	--	**690**	**20**	**520**	**970**	**480**	**17**	**26**
Anthracene	ug/kg	**220**	4.5 U	6.1 U	--	**560**	**12**	**750**	22 U	14 U	**18**	**28**
Benzo(ghi)perylene	ug/kg	**31**	4.5 U	6.1 U	--	**42**	**21**	23 U	**35**	**30**	**44**	**160**
Fluoranthene	ug/kg	**160**	4.5 U	6.1 U	--	**150**	**14**	**170**	**370**	**190**	**89**	**210**
Fluorene	ug/kg	**24**	4.5 U	6.1 U	--	**2800**	**110**	**2400**	**6400**	**2400**	**8.9**	14 U
Naphthalene	ug/kg	**120**	**7.4**	6.1 U	--	**870**	**110**	**400**	**3500**	**2100**	**26**	**55**
Phenanthrene	ug/kg	**100**	**4.7**	6.1 U	--	**5300**	**130**	**5800**	**13000**	**5100**	**76**	**90**
Pyrene	ug/kg	**1000**	4.5 U	6.1 U	--	**370**	**34**	**400**	**1100**	**470**	**110**	**410**

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Analyte	Unit	Soil Screening Levels	HS-MW-17-4-5 6/27/2012 4 - 5 ft	HS-MW-17-16-17 6/27/2012 16 - 17 ft	HS-MW-19-1.5-2.5 7/10/2012 1.5 - 2.5 ft	HS-MW-19-10-11.5 7/10/2012 10 - 11.5 ft	HS-MW-19-12.5-14 7/10/2012 12.5 - 14 ft	HS-SB-18-7.5-9 7/11/2012 7.5 - 9 ft	HS-SB-18-10-11.5 7/11/2012 10 - 11.5 ft	HS-SB-18-15-16.5 7/11/2012 15 - 16.5 ft	HS-SB-101-4-5 6/26/2012 4 - 5 ft	HS-SB-101-9-10 6/26/2012 9 - 10 ft
cPAHs			4.5 U	6.1 U								
Benzo(a)anthracene	ug/kg	**6.5**	4.5 U	6.1 U	–	**34**	**30**	**43**	**72**	**44**	**38**	**180**
Benzo(a)pyrene	ug/kg	**17**	4.5 U	6.1 U	–	31 U	**9.1**	23 U	**37**	**29**	**54**	**220**
Benzo(b)fluoranthene	ug/kg	**22**	4.5 U	6.1 U	–	**36**	**13**	**28**	**67**	**51**	**74**	**280**
Benzo(j,k)fluoranthene	ug/kg	**22**	–	–	–	31 U	7.4 U	23 U	22 U	14 U	**23**	**78**
Chrysene	ug/kg	**7.2**	4.5 U	6.1 U	–	**52**	**16**	**64**	**110**	**45**	**45**	**160**
Dibenzo(a,h)anthracene	ug/kg	**18**	4.5 U	6.1 U	–	31 U	7.4 U	23 U	22 U	14 U	**9**	**34**
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	4.5 U	6.1 U	–	31 U	**8.1**	23 U	22 U	14 U	**47**	**180**
cPAH TEQ	ug/kg	**137**	3.3975 UT	4.6055 UT	–	**27.67 T**	**15.11 T**	**22.69 T**	**55.3 T**	**41.05 T**	**73.55 T**	**296.8 T**
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
1,2-Diphenylhydrazine	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
1,3-Dinitrobenzene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	–	–	–	–	–	–	–	–	–	–
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	11 U	15 U	–	380 U	93 U	280 U	270 U	170 U	12 U	36 U
2,3,5,6-Tetrachlorophenol	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2,3-DICHLOROANILINE	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2,4,5-Trichlorophenol	ug/kg	**8000000**	11 U	15 U	–	380 U	93 U	280 U	270 U	170 U	12 U	36 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	2.1 U	2.8 U	–	2.9 U	3.5 U	**4.1**	**7.1 J**	3.9 U	2.3 U	6.6 U
2,4-Dichlorophenol	ug/kg	**100**	11 U	15 U	–	380 U	93 U	280 U	270 U	170 U	12 U	36 U
2,4-Dimethylphenol	ug/kg	**40**	11 U	15 U	–	380 U	93 U	280 U	270 U	170 U	12 U	36 U
2,4-Dinitrophenol	ug/kg		220 U	300 U	–	7600 U	1900 U	5600 U	5400 U	3400 U	240 U	710 U
2,4-Dinitrotoluene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2,6-Dinitrotoluene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2-Chloronaphthalene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	5400 U	1700 U	24 U	71 U
2-Chlorophenol	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2-Nitroaniline	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
2-Nitrophenol	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
3,3'-Dichlorobenzidine	ug/kg		110 U	150 U	–	3800 U	930 U	2800 U	2700 U	1700 U	120 U	1800 U
3-Nitroaniline	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	110 U	150 U	–	3800 U	930 U	2800 U	2700 U	1700 U	120 U	360 U
4-Bromophenyl phenyl ether	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4-Chloro-3-Methylphenol	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4-Chloroaniline	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4-Chlorophenyl-Phenylether	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4-Nitroaniline	ug/kg	**50000**	22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
4-Nitrophenol (p-Nitrophenol)	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Aniline	ug/kg	**180,000**	22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Benzene, 1,4-Dinitro-	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Benzidine	ug/kg		220 U	300 U	–	7600 U	1900 U	5600 U	5400 U	3400 U	240 U	3600 U
Benzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzyl Alcohol	ug/kg		220 U	300 U	–	7600 U	1900 U	5600 U	5400 U	3400 U	240 U	710 U
Bis(2-Chloroethoxy)Methane	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Bis(2-Chloroethyl)Ether	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Bis(2-chloroisopropyl) ether	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	22 U	30 U	–	**840**	**210**	**1600**	**4600**	**710**	24 U	360 U
Butyl benzyl phthalate	ug/kg	**20**	11 U	15 U	–	380 U	93 U	280 U	270 U	170 U	12 U	36 U
Carbazole	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Chlorinated Phenols	ug/kg		–	–	–	–	–	–	–	–	–	–
Dibenzofuran	ug/kg	**20**	**11**	15 U	–	380 U	93 U	280 U	270 U	170 U	**31**	36 U
Dibutyl phthalate	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Diethyl phthalate	ug/kg	**64000000**	110 U	150 U	–	3800 U	930 U	2800 U	2700 U	1700 U	120 U	360 U
Dimethyl phthalate	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Di-N-Octyl Phthalate	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	360 U
Hexachlorobenzene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Hexachlorobutadiene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Hexachlorocyclopentadiene	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Hexachloroethane	ug/kg		22 U	30 U	–	760 U	190 U	560 U	540 U	340 U	24 U	71 U

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Analyte	Unit	Soil Screening Levels	HS-MW-17-4-5 6/27/2012 4 - 5 ft	HS-MW-17-16-17 6/27/2012 16 - 17 ft	HS-MW-19-1.5-2.5 7/10/2012 1.5 - 2.5 ft	HS-MW-19-10-11.5 7/10/2012 10 - 11.5 ft	HS-MW-19-12.5-14 7/10/2012 12.5 - 14 ft	HS-SB-18-7.5-9 7/11/2012 7.5 - 9 ft	HS-SB-18-10-11.5 7/11/2012 10 - 11.5 ft	HS-SB-18-15-16.5 7/11/2012 15 - 16.5 ft	HS-SB-101-4-5 6/26/2012 4 - 5 ft	HS-SB-101-9-10 6/26/2012 9 - 10 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	360 U
Isophorone	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
m,p-Cresol	ug/kg	**670**	22 U	30 U	--	760 U	190 U	560 U	**850**	**740**	24 U	71 U
Nitrobenzene	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
N-Nitrosodimethylamine	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
N-Nitrosodi-n-propylamine	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
N-Nitrosodiphenylamine	ug/kg	**20**	11 U	15 U	--	380 U	93 U	280 U	270 U	170 U	12 U	36 U
o-Cresol (2-methylphenol)	ug/kg	**20**	11 U	15 U	--	380 U	93 U	280 U	270 U	170 U	12 U	36 U
O-DINITROBENZENE	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	1.1 U	1.4 U	--	**150**	**16**	**80**	**480**	**590**	**1.9**	**4.5**
Phenol	ug/kg	**670**	22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Pyridine	ug/kg		220 U	300 U	--	7600 U	1900 U	5600 U	5400 U	3400 U	240 U	710 U
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		22 U	30 U	--	760 U	190 U	560 U	540 U	340 U	24 U	71 U
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	HS-SB-101-13-14 6/26/2012 13 - 14 ft	HS-SB-101-17-18 6/26/2012 17 - 18 ft	HS-SB-102-0-1 6/25/2012 .5 - 1 ft	HS-SB-102-9-10 6/25/2012 9.3 - 10 ft	HS-SB-103-4-5 6/25/2012 4.3 - 5 ft	HS-SB-103-8-9 6/25/2012 8 - 8.7 ft	HS-SB-103-13-14 6/25/2012 13 - 13.7 ft	HS-SB-104-0-1 6/25/2012 .5 - 1 ft	HS-SB-104-4-5 6/25/2012 4.3 - 5 ft	HS-SB-104-8-9 6/25/2012 8 - 8.7 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**390**	**4.4**	--	**2600**	**1400**	**8700**	**170**	--	63 UI	**5.1**
Lube Oil-range Hydrocarbons	mg/kg		**130**	13 U	--	**160 J**	**1900**	**650 J**	**430**	--	**480**	17 U
TPH (Sum)	mg/kg	**1534**	**520 T**	**10.9 T**	--	**2760 JT**	**3300 T**	**9350 JT**	**600 T**	--	**511.5 T**	**13.6 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	**85700 J**	--	--	--	--	**365**	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	**12600**	--	--	--	--	**59.2**	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	**712**	--	--	--	--	**3.54**	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	**1040**	--	--	--	--	**5.69**	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	**974**	--	--	--	--	**4.77**	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	**4230 J**	--	--	--	--	**20.9**	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	**495 J**	--	--	--	--	**3**	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	**2280**	--	--	--	--	**12.1**	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	**316 J**	--	--	--	--	**1.52 J**	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	**560**	--	--	--	--	**3.43**	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	**178 J**	--	--	--	--	**1.1 J**	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	**814**	--	--	--	--	**4.59**	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	**211 J**	--	--	--	--	**1.03**	--	--
2,3,7,8-TCDD	ng/kg		--	--	**52.1 J**	--	--	--	--	0.293 U	--	--
2,3,7,8-TCDF	ng/kg		--	--	**63.5**	--	--	--	--	**0.457 J**	--	--
OCDD	ng/kg		--	--	**633000**	--	--	--	--	**2690**	--	--
OCDF	ng/kg		--	--	**31700**	--	--	--	--	**146**	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	**2891.52 JT**	--	--	--	--	**14.3494 JT**	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	**1400**	**15**	--	**45000**	**8400**	**170000**	**8400**	--	**15**	**25**
2-Methylnaphthalene	ug/kg	**41**	**640**	5.1 U	--	**73000**	**11000**	**250000**	**6200**	--	**23**	**46**
Acenaphthene	ug/kg	**17**	**110**	**6.8**	--	**3700**	**1300**	**7900**	**310**	--	**9.1**	**6.8**
Acenaphthylene	ug/kg	**69**	**33**	5.1 U	--	**710**	**1800**	**1500**	**80**	--	**61**	**18**
Anthracene	ug/kg	**220**	23 U	5.1 U	--	4.8 U	**2400**	270 U	**30**	--	**58**	6.6 U
Benzo(ghi)perylene	ug/kg	**31**	**53**	5.1 U	--	4.8 U	**3300**	**520**	**26**	--	**210**	6.6 U
Fluoranthene	ug/kg	**160**	**91**	5.1 U	--	**120**	**8900**	**1200**	**39**	--	**400**	6.6 U
Fluorene	ug/kg	**24**	**60**	5.1 U	--	**3200**	**1300**	**4500**	**240**	--	**18**	6.6 U
Naphthalene	ug/kg	**120**	**110**	5.1 U	--	**2300**	**1400**	**32000**	**410**	--	**52**	6.6 U
Phenanthrene	ug/kg	**100**	**69**	5.1 U	--	**6200**	**8600**	**4200**	**280**	--	**170**	**9.3**
Pyrene	ug/kg	**1000**	**100**	5.1 U	--	**500**	**10000**	**1000**	**43**	--	**340**	**13**

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Analyte	Unit	Soil Screening Levels	HS-SB-101-13-14 6/26/2012 13 - 14 ft	HS-SB-101-17-18 6/26/2012 17 - 18 ft	HS-SB-102-0-1 6/25/2012 .5 - 1 ft	HS-SB-102-9-10 6/25/2012 9.3 - 10 ft	HS-SB-103-4-5 6/25/2012 4.3 - 5 ft	HS-SB-103-8-9 6/25/2012 8 - 8.7 ft	HS-SB-103-13-14 6/25/2012 13 - 13.7 ft	HS-SB-104-0-1 6/25/2012 .5 - 1 ft	HS-SB-104-4-5 6/25/2012 4.3 - 5 ft	HS-SB-104-8-9 6/25/2012 8 - 8.7 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	**50**	5.1 U	–	**18**	**4000**	**320**	**23**	–	**180**	6.6 U
Benzo(a)pyrene	ug/kg	**17**	**66**	5.1 U	–	**5.6**	**4800**	**420**	**20**	–	**230**	6.6 U
Benzo(b)fluoranthene	ug/kg	**22**	**79**	5.1 U	–	**9.1**	**5000**	**450**	**25**	–	**310**	6.6 U
Benzo(j,k)fluoranthene	ug/kg	**22**	**25**	5.1 U	–	4.8 U	**1700**	**200**	18 U	–	**93**	6.6 U
Chrysene	ug/kg	**7.2**	**50**	5.1 U	–	**32**	**4300**	**390**	**18**	–	**210**	6.6 U
Dibenzo(a,h)anthracene	ug/kg	**18**	23 U	5.1 U	–	4.8 U	**890**	**130**	18 U	–	**57**	6.6 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	**56**	5.1 U	–	4.8 U	**2700**	**430**	**24**	–	**170**	6.6 U
cPAH TEQ	ug/kg	**137**	**88.65 T**	3.8505 UT	–	**9.35 T**	**6272 T**	**576.9 T**	**29.18 T**	–	**313.1 T**	4.983 UT
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
1,2-Diphenylhydrazine	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
1,3-Dinitrobenzene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	–	–	–	–	–	–	–	–	–	–
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	57 U	13 U	–	120 U	760 U	130 U	45 U	–	86 U	13 U
2,3,5,6-Tetrachlorophenol	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2,3-DICHLOROANILINE	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2,4,5-Trichlorophenol	ug/kg	**8000000**	57 U	13 U	–	120 U	760 U	130 U	45 U	–	86 U	13 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	11 U	2.4 U	–	2.2 U	2.8 U	2.5 U	8.4 U	–	3.2 U	3.1 U
2,4-Dichlorophenol	ug/kg	**100**	57 U	13 U	–	120 U	760 U	130 U	45 U	–	86 U	13 U
2,4-Dimethylphenol	ug/kg	**40**	57 U	13 U	–	120 U	760 U	130 U	45 U	–	86 U	13 U
2,4-Dinitrophenol	ug/kg		1100 U	250 U	–	2400 U	15000 U	2700 U	900 U	–	1700 U	250 U
2,4-Dinitrotoluene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2,6-Dinitrotoluene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2-Chloronaphthalene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2-Chlorophenol	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2-Nitroaniline	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
2-Nitrophenol	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
3,3'-Dichlorobenzidine	ug/kg		2900 U	630 U	–	1200 U	7600 U	1300 U	450 U	–	860 U	130 U
3-Nitroaniline	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	570 U	130 U	–	1200 U	7600 U	1300 U	450 U	–	860 U	130 U
4-Bromophenyl phenyl ether	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
4-Chloro-3-Methylphenol	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
4-Chloroaniline	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
4-Chlorophenyl-Phenylether	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
4-Nitroaniline	ug/kg	**50000**	110 U	25 U	–	240 U	1500 U	270 U	90 U	–	**1400**	25 U
4-Nitrophenol (p-Nitrophenol)	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	**210**	–	170 U	25 U
Aniline	ug/kg	**180,000**	110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Benzene, 1,4-Dinitro-	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Benzidine	ug/kg		5700 U	1300 U	–	2400 U	15000 U	2700 U	900 U	–	1700 U	250 U
Benzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzyl Alcohol	ug/kg		1100 U	250 U	–	2400 U	15000 U	2700 U	900 U	–	1700 U	250 U
Bis(2-Chloroethoxy)Methane	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Bis(2-Chloroethyl)Ether	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Bis(2-chloroisopropyl) ether	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	570 U	130 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Butyl benzyl phthalate	ug/kg	**20**	57 U	13 U	–	120 U	760 U	130 U	45 U	–	86 U	13 U
Carbazole	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Chlorinated Phenols	ug/kg		–	–	–	–	–	–	–	–	–	–
Dibenzofuran	ug/kg	**20**	57 U	13 U	–	120 U	760 U	130 U	**120**	–	86 U	13 U
Dibutyl phthalate	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Diethyl phthalate	ug/kg	**64000000**	570 U	130 U	–	1200 U	7600 U	1300 U	450 U	–	860 U	130 U
Dimethyl phthalate	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Di-N-Octyl Phthalate	ug/kg		570 U	130 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Hexachlorobenzene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Hexachlorobutadiene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Hexachlorocyclopentadiene	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U
Hexachloroethane	ug/kg		110 U	25 U	–	240 U	1500 U	270 U	90 U	–	170 U	25 U

Yellow Fill indicates detected result > the screening level
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U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-SB-101-13-14 6/26/2012 13 - 14 ft	HS-SB-101-17-18 6/26/2012 17 - 18 ft	HS-SB-102-0-1 6/25/2012 .5 - 1 ft	HS-SB-102-9-10 6/25/2012 9.3 - 10 ft	HS-SB-103-4-5 6/25/2012 4.3 - 5 ft	HS-SB-103-8-9 6/25/2012 8 - 8.7 ft	HS-SB-103-13-14 6/25/2012 13 - 13.7 ft	HS-SB-104-0-1 6/25/2012 .5 - 1 ft	HS-SB-104-4-5 6/25/2012 4.3 - 5 ft	HS-SB-104-8-9 6/25/2012 8 - 8.7 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		570 U	130 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
Isophorone	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
m,p-Cresol	ug/kg	**670**	110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
Nitrobenzene	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
N-Nitrosodimethylamine	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
N-Nitrosodi-n-propylamine	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
N-Nitrosodiphenylamine	ug/kg	**20**	57 U	13 U	--	120 U	760 U	130 U	45 U	--	86 U	13 U
o-Cresol (2-methylphenol)	ug/kg	**20**	57 U	13 U	--	120 U	760 U	130 U	45 U	--	86 U	13 U
O-DINITROBENZENE	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	5.4 U	1.2 U	--	**99**	**2**	**38**	4.3 U	--	1.6 U	1.6 U
Phenol	ug/kg	**670**	110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
Pyridine	ug/kg		1100 U	250 U	--	2400 U	15000 U	2700 U	900 U	--	1700 U	250 U
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		110 U	25 U	--	240 U	1500 U	270 U	90 U	--	170 U	25 U
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	HS-SS-104-0-0.8 5/15/2012 0 - .8 ft	HWT-TP-02-7.5 (TP-02; TP-2) 3/20/2000 7.5 - 7.5 ft	HWT-TP-03-8 (TP-03; TP-3) 3/20/2000 8 - 8 ft	HWT-TP-06-6 (TP-06; TP-6) 3/20/2000 6 - 6 ft	HWT-TP-09-4 (TP-09; TP-9) 3/20/2000 4 - 4 ft	HWT-TP-12-5 (TP-12) 3/21/2000 5 - 5 ft	HWT-TP-14-7 (TP-14) 3/21/2000 7 - 7 ft	SB-1-A (SB1 [E&E]) 11/11/1985 1.5 - 2 ft	SB-1-B (SB1 [E&E]) 11/11/1985 2.5 - 3 ft	SB-1-C (SB1 [E&E]) 11/11/1985 3.3 - 3.8 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	**22100**	**44800**	**4720**	**28000**	**49300**	**36000**	--	--	--
Lube Oil-range Hydrocarbons	mg/kg		--	2530 U	5030 U	1030 U	2530 U	5030 U	5030 U	--	--	--
TPH (Sum)	mg/kg	**1534**	--	**23365 T**	**47315 T**	**5235 T**	**29265 T**	**51815 T**	**38515 T**	--	--	--
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		**11500**	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		**1250**	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		**83**	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		**67**	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		**109**	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		**215**	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		**32.4**	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		**105**	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		**35.9**	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		**37.5**	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		**9.87**	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		**50.8**	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		**12.9**	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		**3.48**	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		**2.05**	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		**130000**	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		**6290**	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	**276.0781 T**	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	**781000**	**1920000**	**24100**	**714000**	**1580000**	**986000**	--	--	--
Acenaphthene	ug/kg	**17**	--	**18700**	**43800**	**3110**	**28400**	**55600**	**36000**	--	--	--
Acenaphthylene	ug/kg	**69**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Anthracene	ug/kg	**220**	--	**5520**	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Benzo(ghi)perylene	ug/kg	**31**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Fluoranthene	ug/kg	**160**	--	**1990**	**4680**	1000 U	10000 U	**9600**	**7510**	--	--	--
Fluorene	ug/kg	**24**	--	**23400**	**53100**	1000 U	**45700**	**73200**	**46400**	--	--	--
Naphthalene	ug/kg	**120**	--	**125000**	**295000**	**1030**	**106000**	**52800**	**56100**	--	--	--
Phenanthrene	ug/kg	**100**	--	**45800**	**107000**	**21700**	**86100**	**132000**	**83900**	--	--	--
Pyrene	ug/kg	**1000**	--	**4550**	**9560**	1000 U	**12400**	**14400**	**10600**	--	--	--

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Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-SS-104-0-0.8 5/15/2012 0 - .8 ft	HWT-TP-02-7.5 (TP-02; TP-2) 3/20/2000 7.5 - 7.5 ft	HWT-TP-03-8 (TP-03; TP-3) 3/20/2000 8 - 8 ft	HWT-TP-06-6 (TP-06; TP-6) 3/20/2000 6 - 6 ft	HWT-TP-09-4 (TP-09; TP-9) 3/20/2000 4 - 4 ft	HWT-TP-12-5 (TP-12) 3/21/2000 5 - 5 ft	HWT-TP-14-7 (TP-14) 3/21/2000 7 - 7 ft	SB-1-A (SB1 [E&E]) 11/11/1985 1.5 - 2 ft	SB-1-B (SB1 [E&E]) 11/11/1985 2.5 - 3 ft	SB-1-C (SB1 [E&E]) 11/11/1985 3.3 - 3.8 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Benzo(a)pyrene	ug/kg	**17**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Benzo(b)fluoranthene	ug/kg	**22**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Benzo(j,k)fluoranthene	ug/kg	**22**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Chrysene	ug/kg	**7.2**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Dibenzo(a,h)anthracene	ug/kg	**18**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
cPAH TEQ	ug/kg	**137**	--	755 UT	1510 UT	755 UT	7550 UT	3775 UT	3775 UT	--	--	--
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	32000 U	3200 U	**25000**
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
2,4-Dichlorophenol	ug/kg	**100**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	2000 U	4000 U	2000 U	20000 U	10000 U	10000 U	6600 U	660 U	5000 U
2,4-Dinitrophenol	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
2,4-Dinitrotoluene	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
2,6-Dinitrotoluene	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
2-Chloronaphthalene	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
2-Chlorophenol	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
2-Nitroaniline	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
2-Nitrophenol	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	50000 U	100000 U	50000 U	500000 U	250000 U	250000 U	--	--	--
3-Nitroaniline	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
4-Chloroaniline	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
Aniline	ug/kg	**180,000**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
Benzyl Alcohol	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	6600 U	660 U	5000 U
Butyl benzyl phthalate	ug/kg	**20**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Carbazole	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Chlorinated Phenols	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Dibenzofuran	ug/kg	**20**	--	1000 U	**14700**	1000 U	10000 U	5000 U	5000 U	6600 U	660 U	**2300 J**
Dibutyl phthalate	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Dimethyl phthalate	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Hexachlorobenzene	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Hexachlorobutadiene	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
Hexachloroethane	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	HS-SS-104-0-0.8 5/15/2012 0 - .8 ft	HWT-TP-02-7.5 (TP-02; TP-2) 3/20/2000 7.5 - 7.5 ft	HWT-TP-03-8 (TP-03; TP-3) 3/20/2000 8 - 8 ft	HWT-TP-06-6 (TP-06; TP-6) 3/20/2000 6 - 6 ft	HWT-TP-09-4 (TP-09; TP-9) 3/20/2000 4 - 4 ft	HWT-TP-12-5 (TP-12) 3/21/2000 5 - 5 ft	HWT-TP-14-7 (TP-14) 3/21/2000 7 - 7 ft	SB-1-A (SB1 [E&E]) 11/11/1985 1.5 - 2 ft	SB-1-B (SB1 [E&E]) 11/11/1985 2.5 - 3 ft	SB-1-C (SB1 [E&E]) 11/11/1985 3.3 - 3.8 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	2000 U	1000 U	10000 U	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	**20700**	**42800**	1000 U	10000 U	**66700**	5000 U	6600 U	660 U	**4100 J**
o-Cresol (2-methylphenol)	ug/kg	**20**	--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	6600 U	660 U	5000 U
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	6600 U	660 U	5000 U
Pentachlorophenol	ug/kg	**6.3**	--	5000 U	10000 U	**221000**	50000 U	25000 U	25000 U	**160000**	**18000**	5000 U
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	6600 U	660 U	5000 U
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	5000 U	10000 U	5000 U	50000 U	25000 U	25000 U	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	1000 U	2000 U	1000 U	10000 U	5000 U	5000 U	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
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U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	SB-2-A (SB2 [E&E]) 11/11/1985 5 - 5.5 ft	SB-2-B (SB2 [E&E]) 11/11/1985 7 - 7.5 ft	SB-2-C (SB2 [E&E]) 11/11/1985 8.5 - 9 ft	SP-A-4 (HEI-SP-A) 8/28/1984 4 - 4 ft	SP-A-7 (HEI-SP-A) 8/28/1984 7 - 7 ft	SP-B-3 (HEI-SP-B) 8/28/1984 3 - 3 ft	SP-B-6 (HEI-SP-B) 8/28/1984 6 - 6 ft	SP-C-4 (HEI-SP-C) 8/28/1984 4 - 4 ft	SP-C-7 (HEI-SP-C) 8/28/1984 7 - 7 ft	SP-D-3 (HEI-SP-D) 8/28/1984 3 - 3 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	--	--	--
Lube Oil-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	--	--	--
TPH (Sum)	mg/kg	**1534**	--	--	--	--	--	--	--	--	--	--
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/kg	**17**	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	ug/kg	**69**	--	--	--	--	--	--	--	--	--	--
Anthracene	ug/kg	**220**	--	--	--	--	--	--	--	--	--	--
Benzo(ghi)perylene	ug/kg	**31**	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ug/kg	**160**	--	--	--	--	--	--	--	--	--	--
Fluorene	ug/kg	**24**	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg	**120**	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
Pyrene	ug/kg	**1000**	--	--	--	--	--	--	--	--	--	--

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Bold = detected value

Analyte	Unit	Soil Screening Levels	SB-2-A (SB2 [E&E]) 11/11/1985 5 - 5.5 ft	SB-2-B (SB2 [E&E]) 11/11/1985 7 - 7.5 ft	SB-2-C (SB2 [E&E]) 11/11/1985 8.5 - 9 ft	SP-A-4 (HEI-SP-A) 8/28/1984 4 - 4 ft	SP-A-7 (HEI-SP-A) 8/28/1984 7 - 7 ft	SP-B-3 (HEI-SP-B) 8/28/1984 3 - 3 ft	SP-B-6 (HEI-SP-B) 8/28/1984 6 - 6 ft	SP-C-4 (HEI-SP-C) 8/28/1984 4 - 4 ft	SP-C-7 (HEI-SP-C) 8/28/1984 7 - 7 ft	SP-D-3 (HEI-SP-D) 8/28/1984 3 - 3 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	**17**	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	--	--	--
Chrysene	ug/kg	**7.2**	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	ug/kg	**18**	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	--	--	--	--	--	--	--	--	--
cPAH TEQ	ug/kg	**137**	--	--	--	--	--	--	--	--	--	--
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	1600 U	64000 U	**13000 J**	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	330 U	13000 U	13000 U	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	330 U	13000 U	13000 U	--	--	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	**290 J**	13000 U	13000 U	--	--	--	--	--	--	--
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**SB-2-A (SB2 [E&E]) 11/11/1985 5 - 5.5 ft**	**SB-2-B (SB2 [E&E]) 11/11/1985 7 - 7.5 ft**	**SB-2-C (SB2 [E&E]) 11/11/1985 8.5 - 9 ft**	**SP-A-4 (HEI-SP-A) 8/28/1984 4 - 4 ft**	**SP-A-7 (HEI-SP-A) 8/28/1984 7 - 7 ft**	**SP-B-3 (HEI-SP-B) 8/28/1984 3 - 3 ft**	**SP-B-6 (HEI-SP-B) 8/28/1984 6 - 6 ft**	**SP-C-4 (HEI-SP-C) 8/28/1984 4 - 4 ft**	**SP-C-7 (HEI-SP-C) 8/28/1984 7 - 7 ft**	**SP-D-3 (HEI-SP-D) 8/28/1984 3 - 3 ft**
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	330 U	13000 U	**23000**	--	--	--	--	--	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	330 U	13000 U	13000 U	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	330 U	13000 U	13000 U	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**20000**	**19000 J**	13000 U	**800**	**1100**	20 U	20 U	20 U	20 U	20 U
Phenol	ug/kg	**670**	330 U	13000 U	13000 U	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	SP-D-7 (HEI-SP-D) 8/28/1984 7 - 7 ft	SP-E-4 (HEI-SP-E) 8/28/1984 4 - 4 ft	SP-E-5.5 (HEI-SP-E) 8/28/1984 5.5 - 5.5 ft	SP-F-5 (HEI-SP-F) 8/28/1984 5 - 5 ft	SP-F-8 (HEI-SP-F) 8/28/1984 8 - 8 ft	SP-G-5.5N (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft	SP-G-5.5S (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft	SP-H-3 (HEI-SP-H) 8/28/1984 3 - 3 ft	SP-H-6 (HEI-SP-H) 8/28/1984 6 - 6 ft	SP-I-2 (HEI-SP-I) 8/28/1984 2 - 2 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	--	--	--
Lube Oil-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	--	--	--
TPH (Sum)	mg/kg	**1534**	--	--	--	--	--	--	--	--	--	--
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/kg	**17**	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	ug/kg	**69**	--	--	--	--	--	--	--	--	--	--
Anthracene	ug/kg	**220**	--	--	--	--	--	--	--	--	--	--
Benzo(ghi)perylene	ug/kg	**31**	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ug/kg	**160**	--	--	--	--	--	--	--	--	--	--
Fluorene	ug/kg	**24**	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg	**120**	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
Pyrene	ug/kg	**1000**	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**SP-D-7 (HEI-SP-D) 8/28/1984 7 - 7 ft**	**SP-E-4 (HEI-SP-E) 8/28/1984 4 - 4 ft**	**SP-E-5.5 (HEI-SP-E) 8/28/1984 5.5 - 5.5 ft**	**SP-F-5 (HEI-SP-F) 8/28/1984 5 - 5 ft**	**SP-F-8 (HEI-SP-F) 8/28/1984 8 - 8 ft**	**SP-G-5.5N (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft**	**SP-G-5.5S (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft**	**SP-H-3 (HEI-SP-H) 8/28/1984 3 - 3 ft**	**SP-H-6 (HEI-SP-H) 8/28/1984 6 - 6 ft**	**SP-I-2 (HEI-SP-I) 8/28/1984 2 - 2 ft**
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	**17**	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	--	--	--
Chrysene	ug/kg	**7.2**	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	ug/kg	**18**	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	--	--	--	--	--	--	--	--	--
cPAH TEQ	ug/kg	**137**	--	--	--	--	--	--	--	--	--	--
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level Blue Fill indicates ND with reporting limit > the screening level U = Not Detected; J = Estimated Value; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Soil Screening Levels**	**SP-D-7 (HEI-SP-D) 8/28/1984 7 - 7 ft**	**SP-E-4 (HEI-SP-E) 8/28/1984 4 - 4 ft**	**SP-E-5.5 (HEI-SP-E) 8/28/1984 5.5 - 5.5 ft**	**SP-F-5 (HEI-SP-F) 8/28/1984 5 - 5 ft**	**SP-F-8 (HEI-SP-F) 8/28/1984 8 - 8 ft**	**SP-G-5.5N (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft**	**SP-G-5.5S (HEI-SP-G) 8/28/1984 5.5 - 5.5 ft**	**SP-H-3 (HEI-SP-H) 8/28/1984 3 - 3 ft**	**SP-H-6 (HEI-SP-H) 8/28/1984 6 - 6 ft**	**SP-I-2 (HEI-SP-I) 8/28/1984 2 - 2 ft**
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	20 U	20 U	20 U	**6800**	**80000**	**120000**	**76000**	**600**	**110000**	**1800**
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	SP-J-0.5 (HEI-SP-J) 8/28/1984 .5 - .5 ft	SP-K-3 (HEI-SP-K) 8/28/1984 3 - 3 ft	SP-K-6.5 (HEI-SP-K) 8/28/1984 6.5 - 6.5 ft	SP-L-3 (HEI-SP-L) 8/28/1984 3 - 3 ft	SP-L-9 (HEI-SP-L) 8/28/1984 9 - 9 ft	SP-M-2 (HEI-SP-M) 8/28/1984 2 - 2 ft	SP-M-4 (HEI-SP-M) 8/28/1984 4 - 4 ft	TL-B-3-9 4/5/2000 9 - 9 ft	TL-B-4-6.5 4/5/2000 6.5 - 6.5 ft	TL-B-5-6.5 4/5/2000 5 - 5 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	**27000**	**137**	**139**
Lube Oil-range Hydrocarbons	mg/kg		--	--	--	--	--	--	--	2530 U	**440**	**378**
TPH (Sum)	mg/kg	**1534**	--	--	--	--	--	--	--	**28265 T**	**577 T**	**517 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/kg	**17**	--	--	--	--	--	--	--	**24900**	250 U	500 U
Acenaphthylene	ug/kg	**69**	--	--	--	--	--	--	--	**9410**	250 U	500 U
Anthracene	ug/kg	**220**	--	--	--	--	--	--	--	**15600**	250 U	500 U
Benzo(ghi)perylene	ug/kg	**31**	--	--	--	--	--	--	--	**274**	250 U	500 U
Fluoranthene	ug/kg	**160**	--	--	--	--	--	--	--	**2800**	250 U	500 U
Fluorene	ug/kg	**24**	--	--	--	--	--	--	--	**33300**	250 U	500 U
Naphthalene	ug/kg	**120**	--	--	--	--	--	--	--	**116000**	250 U	500 U
Phenanthrene	ug/kg	**100**	--	--	--	--	--	--	--	**82000**	**317**	500 U
Pyrene	ug/kg	**1000**	--	--	--	--	--	--	--	**5600**	250 U	500 U

Yellow Fill indicates detected result > the screening level
Blue Fill indicates ND with reporting limit > the screening level
U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	SP-J-0.5 (HEI-SP-J) 8/28/1984 .5 - .5 ft	SP-K-3 (HEI-SP-K) 8/28/1984 3 - 3 ft	SP-K-6.5 (HEI-SP-K) 8/28/1984 6.5 - 6.5 ft	SP-L-3 (HEI-SP-L) 8/28/1984 3 - 3 ft	SP-L-9 (HEI-SP-L) 8/28/1984 9 - 9 ft	SP-M-2 (HEI-SP-M) 8/28/1984 2 - 2 ft	SP-M-4 (HEI-SP-M) 8/28/1984 4 - 4 ft	TL-B-3-9 4/5/2000 9 - 9 ft	TL-B-4-6.5 4/5/2000 6.5 - 6.5 ft	TL-B-5-6.5 4/5/2000 5 - 5 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	--	--	--	--	--	--	**631**	250 U	500 U
Benzo(a)pyrene	ug/kg	**17**	--	--	--	--	--	--	--	**379**	250 U	500 U
Benzo(b)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	**442**	250 U	500 U
Benzo(j,k)fluoranthene	ug/kg	**22**	--	--	--	--	--	--	--	250 U	250 U	500 U
Chrysene	ug/kg	**7.2**	--	--	--	--	--	--	--	**968**	250 U	500 U
Dibenzo(a,h)anthracene	ug/kg	**18**	--	--	--	--	--	--	--	250 U	250 U	500 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	--	--	--	--	--	--	250 U	250 U	500 U
cPAH TEQ	ug/kg	**137**	--	--	--	--	--	--	--	**533.48 T**	188.75 UT	377.5 UT
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	5000 U	1000 U	1000 U
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	--	--	--	2500 U	500 U	500 U
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	--	--	--	--	--	--	2500 U	500 U	500 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	--	--	--	2500 U	500 U	500 U
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzidine	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--

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U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	SP-J-0.5 (HEI-SP-J) 8/28/1984 .5 - .5 ft	SP-K-3 (HEI-SP-K) 8/28/1984 3 - 3 ft	SP-K-6.5 (HEI-SP-K) 8/28/1984 6.5 - 6.5 ft	SP-L-3 (HEI-SP-L) 8/28/1984 3 - 3 ft	SP-L-9 (HEI-SP-L) 8/28/1984 9 - 9 ft	SP-M-2 (HEI-SP-M) 8/28/1984 2 - 2 ft	SP-M-4 (HEI-SP-M) 8/28/1984 4 - 4 ft	TL-B-3-9 4/5/2000 9 - 9 ft	TL-B-4-6.5 4/5/2000 6.5 - 6.5 ft	TL-B-5-6.5 4/5/2000 5 - 5 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**400**	**20**	**10**	**1200**	**20**	**2000**	**7800**	**2820**	500 U	**1730**
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	TL-DP-2-2-4 6/21/2004 2 - 4 ft	TL-DP-2-6-8 6/21/2004 6 - 8 ft	TL-DP-2-8-10 6/21/2004 8 - 10 ft	TL-DP-2-12-15 6/21/2004 12 - 15 ft	TL-DP-4-10-12 6/21/2004 10 - 12 ft	TL-HA-1-0-1 6/14/2004 0 - 1 ft	TL-HA-2-0-1 (TL-HA-2A) 6/14/2004 0 - 1 ft	TL-HA-3-0-1 6/14/2004 0 - 1 ft	TL-MW-1-9 4/3/2000 9 - 9 ft	TL-MW-1-29 4/3/2000 29 - 29 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	**1730**	**22200**	**55.1**	**11.9**	10 U	**18**	10 U	**1280**	**17**
Lube Oil-range Hydrocarbons	mg/kg		--	**40.5**	500 U	25 U	25 U	25 U	25 U	25 U	**1760**	25 U
TPH (Sum)	mg/kg	**1534**	--	**1770.5 T**	**22450 T**	**67.6 T**	**24.4 T**	17.5 UT	**30.5 T**	17.5 UT	**3040 T**	**29.5 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	0.15 U	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	**10.2**	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	0.5 U	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	**25.6**	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	--	--	**23600**	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	--	--	**2980**	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	--	--	**234**	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	--	--	**220**	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	--	--	**372**	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	--	--	**1010**	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	--	--	**146**	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	--	--	**402**	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	--	--	**163**	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	--	--	**93.6**	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	--	--	**69.8**	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	--	--	**221**	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	--	--	**89.8**	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	--	--	**3.79**	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	--	--	**17.1**	--	--	--	--
OCDD	ng/kg		--	--	--	--	--	**176000**	--	--	--	--
OCDF	ng/kg		--	--	--	--	--	**5670**	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	--	--	**704.175 T**	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	**41**	330 U	**108000**	**1080000**	**1780**	**493**	**27.7**	**136**	**30.4**	--	--
Acenaphthene	ug/kg	**17**	330 U	**5430**	**30100**	**132**	**20.1**	10 U	10 U	10 U	50 U	--
Acenaphthylene	ug/kg	**69**	330 U	**1530**	3300 U	10 U	10 U	10 U	10 U	**14.4**	50 U	--
Anthracene	ug/kg	**220**	330 U	**1520**	**7460**	**62.6**	10 U	10 U	**16.5**	10 U	50 U	--
Benzo(ghi)perylene	ug/kg	**31**	330 U	330 U	3300 U	10 U	10 U	10 U	**14.3**	**10.6**	50 U	--
Fluoranthene	ug/kg	**160**	330 U	**590**	**3320**	**21.9**	**11.9**	10 U	**77.3**	**39.5**	50 U	--
Fluorene	ug/kg	**24**	330 U	**6790**	**37400**	**242**	**33.8**	10 U	10 U	10 U	50 U	--
Naphthalene	ug/kg	**120**	330 U	**21300**	**147000**	**85.3**	**31**	10 U	**59.3**	**30.4**	**74.8**	--
Phenanthrene	ug/kg	**100**	**656**	**15300**	**83000**	**570**	**70.3**	10 U	**49.5**	**32.6**	50 U	--
Pyrene	ug/kg	**1000**	330 U	**1420**	**7040**	**39.8**	**13.7**	**11.4**	**73.6**	**28.8**	**74.8**	--

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Analyte	Unit	Soil Screening Levels	TL-DP-2-2-4 6/21/2004 2 - 4 ft	TL-DP-2-6-8 6/21/2004 6 - 8 ft	TL-DP-2-8-10 6/21/2004 8 - 10 ft	TL-DP-2-12-15 6/21/2004 12 - 15 ft	TL-DP-4-10-12 6/21/2004 10 - 12 ft	TL-HA-1-0-1 6/14/2004 0 - 1 ft	TL-HA-2-0-1 (TL-HA-2A) 6/14/2004 0 - 1 ft	TL-HA-3-0-1 6/14/2004 0 - 1 ft	TL-MW-1-9 4/3/2000 9 - 9 ft	TL-MW-1-29 4/3/2000 29 - 29 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	330 U	330 U	**802**	10 U	10 U	10 U	**42**	**11.4**	50 U	–
Benzo(a)pyrene	ug/kg	**17**	330 U	330 U	3300 U	10 U	10 U	10 U	**33**	10 U	50 U	–
Benzo(b)fluoranthene	ug/kg	**22**	330 U	330 U	3300 U	10 U	10 U	10 U	**24.8**	**12.9**	50 U	–
Benzo(j,k)fluoranthene	ug/kg	**22**	330 U	330 U	3300 U	10 U	10 U	10 U	**33**	10 U	50 U	–
Chrysene	ug/kg	**7.2**	330 U	330 U	**1310**	10 U	10 U	**10.6**	**42**	**15.2**	50 U	–
Dibenzo(a,h)anthracene	ug/kg	**18**	330 U	330 U	3300 U	10 U	10 U	10 U	10 U	10 U	50 U	–
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	330 U	330 U	3300 U	10 U	10 U	10 U	**16.5**	10 U	50 U	–
cPAH TEQ	ug/kg	**137**	249.15 UT	249.15 UT	**2403.3 T**	7.55 UT	7.55 UT	**7.606 T**	**45.55 T**	**9.082 T**	37.75 UT	–
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
1,2-Diphenylhydrazine	ug/kg		–	–	–	–	–	–	–	–	–	–
1,3-Dinitrobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	**2080**	660 U	6600 U	660 U	660 U	660 U	660 U	660 U	500 U	–
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	ug/kg		330 U	330 U	3300 U	330 U	330 U	330 U	330 U	330 U	250 U	–
2,3-DICHLOROANILINE	ug/kg		–	–	–	–	–	–	–	–	–	–
2,4,5-Trichlorophenol	ug/kg	**8000000**	330 U	330 U	3300 U	330 U	330 U	330 U	330 U	330 U	250 U	–
2,4,6-Trichlorophenol	ug/kg	**6.3**	330 U	330 U	3300 U	330 U	330 U	330 U	330 U	330 U	250 U	–
2,4-Dichlorophenol	ug/kg	**100**	–	–	–	–	–	–	–	–	–	–
2,4-Dimethylphenol	ug/kg	**40**	–	–	–	–	–	–	–	–	–	–
2,4-Dinitrophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
2,4-Dinitrotoluene	ug/kg		–	–	–	–	–	–	–	–	–	–
2,6-Dinitrotoluene	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Chloronaphthalene	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Chlorophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Nitroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
2-Nitrophenol	ug/kg		–	–	–	–	–	–	–	–	–	–
3,3'-Dichlorobenzidine	ug/kg		–	–	–	–	–	–	–	–	–	–
3-Nitroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	–	–	–	–	–	–	–	–	–	–
4-Bromophenyl phenyl ether	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chloro-3-Methylphenol	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chloroaniline	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Chlorophenyl-Phenylether	ug/kg		–	–	–	–	–	–	–	–	–	–
4-Nitroaniline	ug/kg	**50000**	–	–	–	–	–	–	–	–	–	–
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–
Aniline	ug/kg	**180,000**	–	–	–	–	–	–	–	–	–	–
Benzene, 1,4-Dinitro-	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzidine	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–
Benzyl Alcohol	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Chloroethoxy)Methane	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Chloroethyl)Ether	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-chloroisopropyl) ether	ug/kg		–	–	–	–	–	–	–	–	–	–
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	–	–	–	–	–	–	–	–	–	–
Butyl benzyl phthalate	ug/kg	**20**	–	–	–	–	–	–	–	–	–	–
Carbazole	ug/kg		–	–	–	–	–	–	–	–	–	–
Chlorinated Phenols	ug/kg		–	–	–	–	–	–	–	–	–	–
Dibenzofuran	ug/kg	**20**	330 U	**2630**	**14800**	330 U	330 U	330 U	330 U	330 U	–	–
Dibutyl phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Diethyl phthalate	ug/kg	**64000000**	–	–	–	–	–	–	–	–	–	–
Dimethyl phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Di-N-Octyl Phthalate	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorobenzene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorobutadiene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachlorocyclopentadiene	ug/kg		–	–	–	–	–	–	–	–	–	–
Hexachloroethane	ug/kg		–	–	–	–	–	–	–	–	–	–

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U = Not Detected; J = Estimated Value; T = summed result
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Analyte	Unit	Soil Screening Levels	TL-DP-2-2-4 6/21/2004 2 - 4 ft	TL-DP-2-6-8 6/21/2004 6 - 8 ft	TL-DP-2-8-10 6/21/2004 8 - 10 ft	TL-DP-2-12-15 6/21/2004 12 - 15 ft	TL-DP-4-10-12 6/21/2004 10 - 12 ft	TL-HA-1-0-1 6/14/2004 0 - 1 ft	TL-HA-2-0-1 (TL-HA-2A) 6/14/2004 0 - 1 ft	TL-HA-3-0-1 6/14/2004 0 - 1 ft	TL-MW-1-9 4/3/2000 9 - 9 ft	TL-MW-1-29 4/3/2000 29 - 29 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	--	--	--
Isophorone	ug/kg		--	--	--	--	--	--	--	--	--	--
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	**20**	**425**	**6960**	**30000**	330 U	330 U	330 U	330 U	330 U	--	--
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	--	--	--
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**43200**	**1330**	**6570**	**95.1**	50 U	**1030**	**707**	50 U	250 U	--
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/kg		--	--	--	--	--	--	--	--	--	--
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	TL-MW-2-9 4/4/2000 9 - 9 ft	TL-MW-5-9 4/3/2000 9 - 9 ft	TL-MW-10-5.5-8 6/16/2004 5.5 - 8 ft	TL-MW-10-8-12 6/16/2004 8 - 12 ft	TL-MW-10-12-13 6/16/2004 12 - 13 ft	TL-MW-10-16-18 6/16/2004 16 - 18 ft	TL-MW-11-17-18 6/18/2004 17 - 18 ft	TL-MW-13-11-12 7/3/2012 11 - 12 ft	TL-MW-13-18-19 7/3/2012 18 - 19 ft	TL-MW-13-23-24 7/3/2012 23 - 24 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		--	--	**1550**	**2490**	**17400**	**27.2**	**162**	**41000**	**26**	**710**
Lube Oil-range Hydrocarbons	mg/kg		--	--	125 U	**648**	**24300**	25 U	**265**	**2300**	**45**	**290**
TPH (Sum)	mg/kg	**1534**	--	--	**1612.5 T**	**3138 T**	**41700 T**	**39.7 T**	**427 T**	**43300 T**	**71 T**	**1000 T**
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	0.0968 U	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	0.323 U	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	0.323 U	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	0.968 U	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		**270000 J**	**11000 J**	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		**76000**	**2300**	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		**4200**	**150**	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		**150**	**11**	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		**4500**	**180**	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		**9900 J**	**380**	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		**720**	**32**	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		**700**	**41**	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		**110**	**4.8 J**	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		**26**	**4.7 J**	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		**500**	**28**	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		**420**	**22**	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		**720**	**35**	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		**3.3**	**0.93 J**	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		120 U	14 U	--	--	--	--	--	--	--	--
OCDD	ng/kg		**1100000 J**	**110000**	--	--	--	--	--	--	--	--
OCDF	ng/kg		**400000**	**14000 J**	--	--	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	**5868.3 T**	**256.45 T**	--	--	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	--	--	--	--	--	--	--	**870000**	**130**	**5900**
2-Methylnaphthalene	ug/kg	**41**	--	--	--	--	**74500**	--	**115**	**1200000**	**180**	**7500**
Acenaphthene	ug/kg	**17**	--	--	--	--	**18000 J**	--	**490**	**53000**	**20**	**630**
Acenaphthylene	ug/kg	**69**	--	--	--	--	**4870 J**	--	**41.2**	20000 U	**14**	**210**
Anthracene	ug/kg	**220**	--	--	--	--	**25100 J**	--	**1190**	20000 U	**12**	**210**
Benzo(ghi)perylene	ug/kg	**31**	--	--	--	--	1060 U	--	**949**	**530**	**16**	**68**
Fluoranthene	ug/kg	**160**	--	--	--	--	**2430**	--	**3600**	20000 U	**38**	**220**
Fluorene	ug/kg	**24**	--	--	--	--	**17700 J**	--	**451**	**60000**	**20**	**600**
Naphthalene	ug/kg	**120**	--	--	--	--	**8250 J**	--	**288**	**78000**	**28**	**350**
Phenanthrene	ug/kg	**100**	--	--	--	--	**38200**	--	**4410**	**140000**	**43**	**1500**
Pyrene	ug/kg	**1000**	--	--	--	--	**6000**	--	**3480**	20000 U	**34**	**320**

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Analyte	Unit	Soil Screening Levels	TL-MW-2-9 4/4/2000 9 - 9 ft	TL-MW-5-9 4/3/2000 9 - 9 ft	TL-MW-10-5.5-8 6/16/2004 5.5 - 8 ft	TL-MW-10-8-12 6/16/2004 8 - 12 ft	TL-MW-10-12-13 6/16/2004 12 - 13 ft	TL-MW-10-16-18 6/16/2004 16 - 18 ft	TL-MW-11-17-18 6/18/2004 17 - 18 ft	TL-MW-13-11-12 7/3/2012 11 - 12 ft	TL-MW-13-18-19 7/3/2012 18 - 19 ft	TL-MW-13-23-24 7/3/2012 23 - 24 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	--	--	--	--	**4870**	--	**1590**	**1400**	**20**	**88**
Benzo(a)pyrene	ug/kg	**17**	--	--	--	--	**637 J**	--	**1560**	**700**	**18**	**83**
Benzo(b)fluoranthene	ug/kg	**22**	--	--	--	--	**813 J**	--	**1520**	**1100**	**25**	**100**
Benzo(j,k)fluoranthene	ug/kg	**22**	--	--	--	--	**1090 J**	--	**2520**	**350**	8.4 U	41 U
Chrysene	ug/kg	**7.2**	--	--	--	--	**4680 J**	--	**1530**	**2100**	**18**	**81**
Dibenzo(a,h)anthracene	ug/kg	**18**	--	--	--	--	**196 J**	--	**414**	**91**	8.4 U	41 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	--	--	--	--	**194 J**	--	**852**	**320**	**9.6**	**43**
cPAH TEQ	ug/kg	**137**	--	--	--	--	**1400.1 T**	--	**2264.9 T**	**1047.1 T**	**24.48 T**	**111.01 T**
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
1,2-Diphenylhydrazine	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
1,3-Dinitrobenzene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	2130 U	--	2020 U	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	--	--	--	--	--	--	--	10000 U	21 U	100 U
2,3,5,6-Tetrachlorophenol	ug/kg		--	--	--	--	1060 U	--	1010 U	20000 U	42 U	200 U
2,3-DICHLOROANILINE	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2,4,5-Trichlorophenol	ug/kg	**8000000**	--	--	--	--	1060 U	--	1010 U	10000 U	21 U	100 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	--	--	--	--	1060 U	--	1010 U	**4.6**	3.9 U	3.8 U
2,4-Dichlorophenol	ug/kg	**100**	--	--	--	--	--	--	--	10000 U	21 U	100 U
2,4-Dimethylphenol	ug/kg	**40**	--	--	--	--	--	--	--	10000 U	21 U	100 U
2,4-Dinitrophenol	ug/kg		--	--	--	--	--	--	--	200000 U	420 U	2000 U
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2-Chloronaphthalene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2-Chlorophenol	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2-Nitroaniline	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
2-Nitrophenol	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
3,3'-Dichlorobenzidine	ug/kg		--	--	--	--	--	--	--	100000 U	210 U	1000 U
3-Nitroaniline	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	--	--	--	--	--	--	--	100000 U	210 U	1000 U
4-Bromophenyl phenyl ether	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
4-Chloro-3-Methylphenol	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
4-Chloroaniline	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
4-Chlorophenyl-Phenylether	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
4-Nitroaniline	ug/kg	**50000**	--	--	--	--	--	--	--	20000 U	42 U	200 U
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Aniline	ug/kg	**180,000**	--	--	--	--	--	--	--	20000 U	42 U	200 U
Benzene, 1,4-Dinitro-	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Benzidine	ug/kg		--	--	--	--	--	--	--	200000 U	420 U	2000 U
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		--	--	--	--	--	--	--	200000 U	420 U	2000 U
Bis(2-Chloroethoxy)Methane	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Bis(2-Chloroethyl)Ether	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Bis(2-chloroisopropyl) ether	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	--	--	--	--	--	--	--	20000 U	**73**	**400**
Butyl benzyl phthalate	ug/kg	**20**	--	--	--	--	--	--	--	10000 U	21 U	100 U
Carbazole	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	--	--	--	--	**1510**	--	1010 U	10000 U	21 U	100 U
Dibutyl phthalate	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Diethyl phthalate	ug/kg	**64000000**	--	--	--	--	--	--	--	100000 U	210 U	1000 U
Dimethyl phthalate	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Di-N-Octyl Phthalate	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Hexachlorobenzene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Hexachlorocyclopentadiene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Hexachloroethane	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U

Yellow Fill indicates detected result > the screening level
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U = Not Detected; J = Estimated Value; T = summed result
Bold = detected value

Analyte	Unit	Soil Screening Levels	TL-MW-2-9 4/4/2000 9 - 9 ft	TL-MW-5-9 4/3/2000 9 - 9 ft	TL-MW-10-5.5-8 6/16/2004 5.5 - 8 ft	TL-MW-10-8-12 6/16/2004 8 - 12 ft	TL-MW-10-12-13 6/16/2004 12 - 13 ft	TL-MW-10-16-18 6/16/2004 16 - 18 ft	TL-MW-11-17-18 6/18/2004 17 - 18 ft	TL-MW-13-11-12 7/3/2012 11 - 12 ft	TL-MW-13-18-19 7/3/2012 18 - 19 ft	TL-MW-13-23-24 7/3/2012 23 - 24 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Isophorone	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
m,p-Cresol	ug/kg	**670**	--	--	--	--	--	--	--	20000 U	42 U	200 U
Nitrobenzene	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
N-Nitrosodimethylamine	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
N-Nitrosodi-n-propylamine	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
N-Nitrosodiphenylamine	ug/kg	**20**	--	--	--	--	1060 U	--	1010 U	10000 U	21 U	100 U
o-Cresol (2-methylphenol)	ug/kg	**20**	--	--	--	--	--	--	--	10000 U	21 U	100 U
O-DINITROBENZENE	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	--	--	--	--	**5480**	--	153 U	**290**	**11**	**19**
Phenol	ug/kg	**670**	--	--	--	--	--	--	--	20000 U	42 U	200 U
Pyridine	ug/kg		--	--	--	--	--	--	--	200000 U	420 U	2000 U
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	20000 U	42 U	200 U
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	1610 U	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	TL-MW-13-33-34 7/3/2012 33 - 34 ft	TL-MW-13-43-44 7/3/2012 43 - 44 ft	TL-MW-14-11-12 7/2/2012 11 - 12 ft	TL-MW-14-15-16 7/2/2012 15 - 16 ft	TL-MW-14-23-24 7/2/2012 23 - 24 ft	TL-MW-14-28-29 7/2/2012 28 - 29 ft	TL-MW-15-10-11 6/27/2012 10 - 11 ft	TL-MW-15-14-15 6/27/2012 14 - 15 ft	TL-MW-15-22-23 6/27/2012 22 - 23 ft	TL-MW-15-29-30 6/27/2012 29 - 30 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		2.4 U	**4.5**	**17000**	**1100**	**33**	**8.2**	**5600**	**210**	**56**	3 U
Lube Oil-range Hydrocarbons	mg/kg		9.8 U	10 U	**770**	**160**	**27**	9.2 U	**510 J**	**19**	**210**	12 U
TPH (Sum)	mg/kg	**1534**	6.1 UT	**9.5 T**	**17770 T**	**1260 T**	**60 T**	**12.8 T**	**6110 JT**	**229 T**	**266 T**	7.5 UT
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	**9910**	--	**130**	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	**2040**	--	**30**	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	**131**	--	**1.66 J**	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	**6.14**	--	0.132 U	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	**175**	--	**2.43 J**	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	**361**	--	**4.78 J**	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	**39.1**	--	0.714 U	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	**23**	--	**0.521 J**	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	**66.4**	--	**0.953 J**	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	**2.15 J**	--	0.0947 U	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	**28.2**	--	**0.41 J**	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	**67.6**	--	**1.14 J**	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	**33.5**	--	**0.596 J**	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	0.218 U	--	0.0394 U	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	**9.17**	--	**0.178 J**	--	--	--	--
OCDD	ng/kg		--	--	--	**99500**	--	**1270**	--	--	--	--
OCDF	ng/kg		--	--	--	**9530**	--	**111**	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	**241.415 T**	--	**3.33155 JT**	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	**12**	**92**	**240000**	**13000**	**400**	**58**	**71000**	**1300**	**170**	**7.2**
2-Methylnaphthalene	ug/kg	**41**	**21**	**150**	**390000**	**23000**	**530**	**97**	**94000**	**2100**	**220**	**10**
Acenaphthene	ug/kg	**17**	4.9 U	**13**	**12000**	**890**	**40**	**7**	**6800**	**160**	**49**	4.8 U
Acenaphthylene	ug/kg	**69**	4.9 U	5.2 U	**3400**	**260**	**12**	4.6 U	**960**	**28**	**34**	4.8 U
Anthracene	ug/kg	**220**	4.9 U	5.2 U	1200 U	**170**	**13**	4.6 U	**660**	**51**	**78**	4.8 U
Benzo(ghi)perylene	ug/kg	**31**	4.9 U	5.2 U	**500**	**98**	**11**	4.6 U	**63**	5.1 U	**96**	4.8 U
Fluoranthene	ug/kg	**160**	4.9 U	5.2 U	**1500**	**340**	**24**	**6.5**	**1000**	**28**	**360**	4.8 U
Fluorene	ug/kg	**24**	4.9 U	**14**	**13000**	**930**	**39**	**6.4**	**6300**	**200**	**46**	4.8 U
Naphthalene	ug/kg	**120**	4.9 U	**9.3**	**35000**	**1400**	**68**	**8.7**	**2800**	**110**	**120**	4.8 U
Phenanthrene	ug/kg	**100**	4.9 U	**23**	**30000**	**2200**	**66**	**16**	**13000**	**460**	**310**	4.8 U
Pyrene	ug/kg	**1000**	4.9 U	5.2 U	12000 U	**350**	**28**	**7.2**	**1700**	**47**	**390**	4.8 U

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Analyte	Unit	Soil Screening Levels	TL-MW-13-33-34 7/3/2012 33 - 34 ft	TL-MW-13-43-44 7/3/2012 43 - 44 ft	TL-MW-14-11-12 7/2/2012 11 - 12 ft	TL-MW-14-15-16 7/2/2012 15 - 16 ft	TL-MW-14-23-24 7/2/2012 23 - 24 ft	TL-MW-14-28-29 7/2/2012 28 - 29 ft	TL-MW-15-10-11 6/27/2012 10 - 11 ft	TL-MW-15-14-15 6/27/2012 14 - 15 ft	TL-MW-15-22-23 6/27/2012 22 - 23 ft	TL-MW-15-29-30 6/27/2012 29 - 30 ft
cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	4.9 U	5.2 U	**880**	**140**	**11**	4.6 U	**120**	**7.8**	**160**	4.8 U
Benzo(a)pyrene	ug/kg	**17**	4.9 U	5.2 U	**710**	**130**	**11**	4.6 U	**82**	5.1 U	**170**	4.8 U
Benzo(b)fluoranthene	ug/kg	**22**	4.9 U	5.2 U	**890**	**150**	**13**	4.6 U	**120**	**6.8**	**180**	4.8 U
Benzo(j,k)fluoranthene	ug/kg	**22**	4.9 U	5.2 U	**290**	**58**	5.9 U	4.6 U	41 U	5.1 U	**76**	4.8 U
Chrysene	ug/kg	**7.2**	4.9 U	5.2 U	**1000**	**150**	**9.8**	4.6 U	**150**	**9.5**	**190**	4.8 U
Dibenzo(a,h)anthracene	ug/kg	**18**	4.9 U	5.2 U	**91**	**18**	5.9 U	4.6 U	41 U	5.1 U	**23**	4.8 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	4.9 U	5.2 U	**320**	**65**	**6.3**	4.6 U	**41**	5.1 U	**83**	4.8 U
cPAH TEQ	ug/kg	**137**	3.6995 UT	3.926 UT	**967.1 T**	**174.6 T**	**14.718 T**	3.473 UT	**115.7 T**	**4.87 T**	**224.1 T**	3.624 UT
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
1,2-Diphenylhydrazine	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
1,3-Dinitrobenzene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
2,3,5,6-Tetrachlorophenol	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2,3-DICHLOROANILINE	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2,4,5-Trichlorophenol	ug/kg	**8000000**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	2.3 U	2.4 U	2.2 U	2.8 U	2.7 U	2.2 U	3.8 U	2.4 U	4.8 U	2.2 U
2,4-Dichlorophenol	ug/kg	**100**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
2,4-Dimethylphenol	ug/kg	**40**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
2,4-Dinitrophenol	ug/kg		240 U	260 U	12000 U	3000 U	290 U	230 U	5100 U	250 U	510 U	240 U
2,4-Dinitrotoluene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2,6-Dinitrotoluene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2-Chloronaphthalene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2-Chlorophenol	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2-Nitroaniline	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
2-Nitrophenol	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
3,3'-Dichlorobenzidine	ug/kg		120 U	130 U	60000 U	1500 U	150 U	120 U	2600 U	130 U	260 U	120 U
3-Nitroaniline	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	120 U	130 U	6000 U	1500 U	150 U	120 U	2600 U	130 U	260 U	120 U
4-Bromophenyl phenyl ether	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4-Chloro-3-Methylphenol	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4-Chloroaniline	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4-Chlorophenyl-Phenylether	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4-Nitroaniline	ug/kg	**50000**	24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
4-Nitrophenol (p-Nitrophenol)	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Aniline	ug/kg	**180,000**	24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Benzene, 1,4-Dinitro-	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Benzidine	ug/kg		240 U	260 U	120000 U	3000 U	290 U	230 U	5100 U	250 U	510 U	240 U
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		240 U	260 U	12000 U	3000 U	290 U	230 U	5100 U	250 U	510 U	240 U
Bis(2-Chloroethoxy)Methane	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Bis(2-Chloroethyl)Ether	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Bis(2-chloroisopropyl) ether	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	24 U	**71**	12000 U	**410**	**51**	23 U	510 U	**120**	51 U	24 U
Butyl benzyl phthalate	ug/kg	**20**	12 U	13 U	6000 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
Carbazole	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	**60**	26 U	12 U
Dibutyl phthalate	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Diethyl phthalate	ug/kg	**64000000**	120 U	130 U	6000 U	1500 U	150 U	**160**	2600 U	130 U	260 U	120 U
Dimethyl phthalate	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Di-N-Octyl Phthalate	ug/kg		24 U	26 U	12000 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Hexachlorobenzene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Hexachlorobutadiene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Hexachlorocyclopentadiene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Hexachloroethane	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U

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Bold = detected value

Analyte	Unit	Soil Screening Levels	TL-MW-13-33-34 7/3/2012 33 - 34 ft	TL-MW-13-43-44 7/3/2012 43 - 44 ft	TL-MW-14-11-12 7/2/2012 11 - 12 ft	TL-MW-14-15-16 7/2/2012 15 - 16 ft	TL-MW-14-23-24 7/2/2012 23 - 24 ft	TL-MW-14-28-29 7/2/2012 28 - 29 ft	TL-MW-15-10-11 6/27/2012 10 - 11 ft	TL-MW-15-14-15 6/27/2012 14 - 15 ft	TL-MW-15-22-23 6/27/2012 22 - 23 ft	TL-MW-15-29-30 6/27/2012 29 - 30 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		24 U	26 U	12000 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Isophorone	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
m,p-Cresol	ug/kg	**670**	24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Nitrobenzene	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
N-Nitrosodimethylamine	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
N-Nitrosodi-n-propylamine	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
N-Nitrosodiphenylamine	ug/kg	**20**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
o-Cresol (2-methylphenol)	ug/kg	**20**	12 U	13 U	600 U	150 U	15 U	12 U	260 U	13 U	26 U	12 U
O-DINITROBENZENE	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	1.2 U	1.2 U	**26**	**52**	**2.3**	**1.2**	**190**	**13**	2.4 U	1.1 U
Phenol	ug/kg	**670**	24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Pyridine	ug/kg		240 U	260 U	12000 U	3000 U	290 U	230 U	5100 U	250 U	510 U	240 U
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		24 U	26 U	1200 U	300 U	29 U	23 U	510 U	25 U	51 U	24 U
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

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Analyte	Unit	Soil Screening Levels	TL-MW-16-8-9 6/28/2012 8 - 9 ft	TL-MW-16-14-15 6/28/2012 14 - 15 ft	TL-MW-16-20-21 6/28/2012 20 - 21 ft	TL-MW-16-31-32 6/28/2012 31 - 32 ft	TL-SB-101-4-5 6/26/2012 4 - 5 ft	TL-SB-101-9-10 6/26/2012 9 - 10 ft	TL-SB-101-14-15 6/26/2012 14 - 15 ft	TL-SB-101-19-20 6/26/2012 19 - 20 ft	TL-SB-101-24-25 6/26/2012 24 - 25 ft	TL-SB-101-28-29 6/26/2012 28 - 29 ft
METALS												
Arsenic	mg/kg	**20**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	**80**	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	**120000**	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent	mg/kg		--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	**36**	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	**81**	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	**0.07**	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	**1600**	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	**85**	--	--	--	--	--	--	--	--	--	--
TPH												
Gasoline-range hydrocarbons	mg/kg	**100**	--	--	--	--	--	--	--	--	--	--
Diesel-range Hydrocarbons	mg/kg		**9900**	**27**	**74 J**	2.9 U	9 UI	**18 J**	19 UI	**44 J**	3.2 U	3.6 U
Lube Oil-range Hydrocarbons	mg/kg		**1100 J**	**39**	**360**	11 U	**100**	**99**	**72**	**150**	13 U	15 U
TPH (Sum)	mg/kg	**1534**	**11000 JT**	**66 T**	**434 JT**	6.95 UT	**104.5 T**	**117 JT**	**81.5 T**	**194 JT**	8.1 UT	9.3 UT
BTEX												
Benzene	mg/kg	**0.0014**	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	**1**	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	**6.4**	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	**0.16**	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED												
1,2,3,4,6,7,8-HpCDD	ng/kg		--	--	--	**12.5**	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg		--	--	--	**3.52**	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg		--	--	--	0.184 U	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg		--	--	--	0.16 U	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg		--	--	--	**0.437 J**	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg		--	--	--	**0.636 J**	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg		--	--	--	**0.271 J**	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg		--	--	--	**0.47 J**	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg		--	--	--	**0.085 J**	--	--	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg		--	--	--	**0.211 J**	--	--	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg		--	--	--	**0.215 J**	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg		--	--	--	**0.411 J**	--	--	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg		--	--	--	**0.354 J**	--	--	--	--	--	--
2,3,7,8-TCDD	ng/kg		--	--	--	0.0593 U	--	--	--	--	--	--
2,3,7,8-TCDF	ng/kg		--	--	--	**0.206 J**	--	--	--	--	--	--
OCDD	ng/kg		--	--	--	**109**	--	--	--	--	--	--
OCDF	ng/kg		--	--	--	**8.1**	--	--	--	--	--	--
Dioxin TEQ	ng/Kg	**13**	--	--	--	**0.80915 JT**	--	--	--	--	--	--
PAHs												
1-Methylnaphthalene	ug/kg	**42**	**6600**	**100**	**43**	4.6 U	25 U	**18**	**12**	11 U	5.2 U	5.8 U
2-Methylnaphthalene	ug/kg	**41**	**1000**	**59**	**36**	4.6 U	25 U	**29**	**15**	11 U	5.2 U	5.8 U
Acenaphthene	ug/kg	**17**	**5500**	**26**	**20**	4.6 U	25 U	**17**	9.6 U	11 U	5.2 U	5.8 U
Acenaphthylene	ug/kg	**69**	**390**	**6**	**23**	4.6 U	25 U	**29**	**39**	11 U	5.2 U	5.8 U
Anthracene	ug/kg	**220**	**3900**	**14**	**39**	4.6 U	25 U	**47**	**44**	11 U	5.2 U	5.8 U
Benzo(ghi)perylene	ug/kg	**31**	**290**	5.3 U	**55**	4.6 U	25 U	**73**	**110**	**18**	5.2 U	5.8 U
Fluoranthene	ug/kg	**160**	**2300**	**7.8**	**140**	4.6 U	25 U	**280**	**260**	**39**	5.2 U	5.8 U
Fluorene	ug/kg	**24**	**1200**	**24**	**23**	4.6 U	25 U	**22**	**18**	11 U	5.2 U	5.8 U
Naphthalene	ug/kg	**120**	**180**	**11**	**49**	4.6 U	25 U	**15**	**110**	11 U	5.2 U	5.8 U
Phenanthrene	ug/kg	**100**	**6500**	**43**	**120**	4.6 U	25 U	**160**	**130**	**23**	5.2 U	5.8 U
Pyrene	ug/kg	**1000**	**3300**	**18**	**170**	4.6 U	25 U	**230**	**220**	**47**	**5.4**	5.8 U

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cPAHs												
Benzo(a)anthracene	ug/kg	**6.5**	**800**	**5.3**	**91**	4.6 U	25 U	**110**	**130**	**25**	5.2 U	5.8 U
Benzo(a)pyrene	ug/kg	**17**	**470**	5.3 U	**75**	4.6 U	25 U	**110**	**150**	**23**	5.2 U	5.8 U
Benzo(b)fluoranthene	ug/kg	**22**	**470**	5.3 U	**78**	4.6 U	25 U	**120**	**160**	**27**	5.2 U	5.8 U
Benzo(j,k)fluoranthene	ug/kg	**22**	**180**	5.3 U	**32**	4.6 U	25 U	**45**	**62**	11 U	5.2 U	5.8 U
Chrysene	ug/kg	**7.2**	**900**	**5.7**	**79**	4.6 U	25 U	**120**	**140**	**18**	5.2 U	5.8 U
Dibenzo(a,h)anthracene	ug/kg	**18**	**61**	5.3 U	17 U	4.6 U	25 U	**21**	**23**	11 U	5.2 U	5.8 U
Indeno(1,2,3-cd)pyrene	ug/kg	**35**	**190**	5.3 U	**35**	4.6 U	25 U	**65**	**92**	**17**	5.2 U	5.8 U
cPAH TEQ	ug/kg	**137**	**649.1 T**	**4.297 T**	**100.24 T**	3.473 UT	18.875 UT	**147.3 T**	**198.1 T**	**31.18 T**	3.926 UT	4.379 UT
SVOCs												
1,2,4-Trichlorobenzene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
1,2-Diphenylhydrazine	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
1,3-Dinitrobenzene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2,3,4,5-Tetrachlorophenol	ug/kg	**2400000**	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/kg	**180**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
2,3,5,6-Tetrachlorophenol	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2,3-DICHLOROANILINE	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2,4,5-Trichlorophenol	ug/kg	**8000000**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
2,4,6-Trichlorophenol	ug/kg	**6.3**	**7.3**	2.5 U	7.8 U	2.1 U	2.3 U	2.2 U	4.5 U	5.3 U	2.4 U	2.7 U
2,4-Dichlorophenol	ug/kg	**100**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
2,4-Dimethylphenol	ug/kg	**40**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
2,4-Dinitrophenol	ug/kg		1600 U	270 U	840 U	230 U	1300 U	240 U	480 U	570 U	260 U	290 U
2,4-Dinitrotoluene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2,6-Dinitrotoluene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2-Chloronaphthalene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2-Chlorophenol	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2-Nitroaniline	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
2-Nitrophenol	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
3,3'-Dichlorobenzidine	ug/kg		820 U	130 U	420 U	110 U	3100 U	120 U	240 U	280 U	130 U	140 U
3-Nitroaniline	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4,6-Dinitro-2-Methylphenol	ug/kg	**6400**	820 U	130 U	420 U	110 U	630 U	120 U	240 U	280 U	130 U	140 U
4-Bromophenyl phenyl ether	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4-Chloro-3-Methylphenol	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4-Chloroaniline	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4-Chlorophenyl-Phenylether	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4-Nitroaniline	ug/kg	**50000**	160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
4-Nitrophenol (p-Nitrophenol)	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Aniline	ug/kg	**180,000**	160 U	27 U	**200**	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Benzene, 1,4-Dinitro-	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Benzidine	ug/kg		1600 U	270 U	840 U	230 U	6300 U	240 U	480 U	570 U	260 U	290 U
Benzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/kg		1600 U	270 U	840 U	230 U	1300 U	240 U	480 U	570 U	260 U	290 U
Bis(2-Chloroethoxy)Methane	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Bis(2-Chloroethyl)Ether	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Bis(2-chloroisopropyl) ether	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Bis(2-Ethylhexyl) Phthalate	ug/kg	**110**	160 U	27 U	84 U	23 U	630 U	24 U	48 U	57 U	26 U	29 U
Butyl benzyl phthalate	ug/kg	**20**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
Carbazole	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Chlorinated Phenols	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/kg	**20**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
Dibutyl phthalate	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Diethyl phthalate	ug/kg	**64000000**	820 U	130 U	420 U	110 U	630 U	120 U	240 U	280 U	130 U	140 U
Dimethyl phthalate	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Di-N-Octyl Phthalate	ug/kg		160 U	27 U	84 U	23 U	630 U	24 U	48 U	57 U	26 U	29 U
Hexachlorobenzene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Hexachlorobutadiene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Hexachlorocyclopentadiene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Hexachloroethane	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U

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Analyte	Unit	Soil Screening Levels	TL-MW-16-8-9 6/28/2012 8 - 9 ft	TL-MW-16-14-15 6/28/2012 14 - 15 ft	TL-MW-16-20-21 6/28/2012 20 - 21 ft	TL-MW-16-31-32 6/28/2012 31 - 32 ft	TL-SB-101-4-5 6/26/2012 4 - 5 ft	TL-SB-101-9-10 6/26/2012 9 - 10 ft	TL-SB-101-14-15 6/26/2012 14 - 15 ft	TL-SB-101-19-20 6/26/2012 19 - 20 ft	TL-SB-101-24-25 6/26/2012 24 - 25 ft	TL-SB-101-28-29 6/26/2012 28 - 29 ft
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/kg		160 U	27 U	84 U	23 U	630 U	24 U	48 U	57 U	26 U	29 U
Isophorone	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
m,p-Cresol	ug/kg	**670**	160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Nitrobenzene	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
N-Nitrosodimethylamine	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
N-Nitrosodi-n-propylamine	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
N-Nitrosodiphenylamine	ug/kg	**20**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
o-Cresol (2-methylphenol)	ug/kg	**20**	82 U	13 U	42 U	11 U	63 U	12 U	24 U	28 U	13 U	14 U
O-DINITROBENZENE	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
p-Cresol (4-methylphenol)	ug/kg	**670**	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	**6.3**	**3400**	**61**	**20**	1.1 U	**11**	**3.3**	2.3 U	2.7 U	**3.1**	1.4 U
Phenol	ug/kg	**670**	160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Pyridine	ug/kg		1600 U	270 U	840 U	230 U	1300 U	240 U	480 U	570 U	260 U	290 U
Quinoline, 4-nitro-, 1-oxid	ug/kg		--	--	--	--	--	--	--	--	--	--
VOCs												
1,1,1-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		160 U	27 U	84 U	23 U	130 U	24 U	48 U	57 U	26 U	29 U
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Dibromodichloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether	ug/kg		--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--

Notes:

Alternate sample IDs in paranthesis

Table 6-5

Petroleum Hydrocarbon Identification Results for Soil

R.G. Haley Site

Bellingham, Washington

Sample I.D.	HS-DP-13-8-9	HS-DP-15-4.5-8.5	HS-MW-10-12-13	HS-MW-16-9-10
Date Sampled	06/16/04	06/21/04	06/16/04	06/17/04
Depth (feet bgs)	8 to 9	4.5 to 8.5	12 to 13	9 to 10
Field Screening Water Sheen	SS	NS	MS	NS
NWTPH-HCID (mg/kg)				
Diesel Range	50 U	101 U	120 U	50 U
Heavy Fuel Oil Range	100 U	202 U	240 U	Detected
Insulating Oil Range	100 U	202 U	240 U	100 U
Gasoline Range	20 U	40.5 U	48.1 U	20 U
Kerosene Range	50 U	101 U	120 U	50 U
Lube Oil Range	100 U	202 U	Detected	100 U

Notes:

U = Not Detected

Table 6-6

Extractable Petroleum Hydrocarbons Results for Soil

R.G. Haley Site

Bellingham, Washington

Analyte Group	Constituent (Results in mg/kg)	Sample I.D.	HS-DP-4-8-11	HS-DP-8-8-11	HS-MW-10-12-13	HS-MW-13D-8-10	TL-DP-2-8-10	TL-MW-10-12-13
		Date Collected	06/15/04	06/15/04	06/16/04	06/16/04	06/21/04	06/16/04
		Depth (feet)	8 to 11	8 to 10	12 to 13	8 to 10	8 to 10	12 to 13
		Field Screening Water Sheen	HS	MS	MS	MS	HS	HS
EPH	Aliphatics EC8-EC10		122	204	240	23.5	541	161
	Aliphatics EC10-EC12		1,100	1,010	240	130	1,730	161
	Aliphatics EC12-EC16		4,670	3,650	240	745	6,780	1,510
	Aliphatics EC16-EC21		1,630	665	1,670	289	2,780	3,960
	Aliphatics EC21-EC34		211	209	9,390	55.2	441	16,800
	Aromatics EC8-EC10		140	40	240	10	337	161
	Aromatics EC10-EC12		275	314	240	42.4	1,420	161
	Aromatics EC12-EC16		3,290	3,730	240	691	9,070	1,980
	Aromatics EC16-EC21		2,710	1,430	1,300	545	6,010	5,210
	Aromatics EC21-EC34		178	129	9,340	45.5	438	12,500
	Extractable Petroleum Hydrocarbons		14,200	11,300	21,700	2,540	28,700	42,000

Notes:

EPH = extractable petroleum hydrocarbons

Table 6-7

Comparison of Petroleum Types in Selected Soil Samples

R.G. Haley Site

Bellingham, Washington

Sample Identification	Sample Date	Depth (feet bgs)	Type of Petroleum		
			Carrier Oil (Diesel-Range)	Lube Oil	Other Heavy Oil (Hydraulic Oil or Other)
CL-MW-101-6-7	6/29/2012	6	X	X	
CL-MW-102-6-7	6/29/2012	6	X		
CL-MW-103-5-6.5	7/10/2012	5	X	X	
CL-MW-103-10-11.5	7/10/2012	10		X	
CL-MW-1D-12-13	6/17/2004	12	X		
CL-SB-101-4-5	6/25/2012	4.3	X		
CL-SB-102-9-10	6/25/2012	9.3	X		
CL-SB-103-8-9	6/25/2012	8	X		
HS-DP-1-8-10	6/15/2004	8	X		
HS-DP-10-7-8	6/21/2004	7		X	
HS-DP-12-8-9	6/16/2004	8	X		
HS-DP-4-8-11	6/15/2004	8	X		
HS-DP-5B-8-10	6/15/2004	8	X		
HS-DP-6-8-10	6/15/2004	8	X	X	
HS-DP-8-8-11	6/15/2004	8	X		
HS-DP-9-8-9	6/15/2004	8		X	
HS-HA-1-0-1	6/14/2004	0			X
HS-HA-3-0-1	6/14/2004	0			X
HS-HA-4-0-1	6/14/2004	0			X
HS-HA-5-0-1	6/14/2004	0			X
HS-MW-10-12-13	6/16/2004	12			X
HS-MW-11DA-4-8	6/16/2004	4	X	X	
HS-MW-13D-8-10	6/16/2004	8	X		
HS-MW-16-9-10	6/17/2004	9			X
HS-MW-17-4-5	6/27/2012	4			X
HS-MW-19-10-11.5	7/10/2012	10	X	X	
HS-MW-19-12.5-14	7/10/2012	12.5	X	X	
HS-MW-3-6.5	4/4/2000	6.5	X	X	
HS-MW-4-7	4/4/2000	7	X	X	
HS-MW-5-6.5	4/4/2000	6.5	X		
HS-MW-6-6.5	4/3/2000	6.5		X	
HS-MW-7-9	4/5/2000	9	X		
HS-MW-8-6.5	4/4/2000	6.5	X	X	
HS-MW-9-9	4/5/2000	9		X	
HS-SB-101-13-14	6/26/2012	13			X
HS-SB-102-9-10	6/25/2012	9.3	X		
HS-SB-103-4-5	6/25/2012	4.3	X	X	
HS-SB-103-8-9	6/25/2012	8	X		
HS-SB-104-4-5	6/25/2012	4.3		X	
HS-SB-104-8-9	6/25/2012	8		X	
HS-SB-18-10-11.5	7/11/2012	10	X		

Sample Identification	Sample Date	Depth (feet bgs)	Type of Petroleum		
			Carrier Oil (Diesel-Range)	Lube Oil	Other Heavy Oil (Hydraulic Oil or Other)
TL-B-3-9	4/5/2000	9	X		
TL-B-4-6.5	4/5/2000	6.5		X	
TL-B-5-6.5	4/5/2000	5		X	
TL-DP-2-6-8	6/21/2004	6	X		
TL-DP-2-8-10	6/21/2004	8	X		
TL-DP-4-10-12	6/21/2004	10	X		
TL-HA-2-0-1	6/14/2004	0		X	
TL-MW-1-9	4/3/2000	9		X	
TL-MW-10-12-13	6/16/2004	12	X	X	
TL-MW-11-17-18	6/18/2004	17			X
TL-MW-13-11-12	7/3/2012	11	X		
TL-MW-14-11-12	7/2/2012	11	X		
TL-MW-15-10-11	6/27/2012	10	X	X	
TL-MW-16-8-9	6/28/2012	8	X		
TL-SB-101-19-20	6/26/2012	19		X	
TP-12-5	3/21/2000	5	X		
TP-14-7	3/21/2000	7	X		
TP-02-7.5	3/20/2000	7.5	X		
TP-03-8	3/20/2000	8	X		
TP-06-6	3/20/2000	6	X		
TP-09-4	3/20/2000	4	X		
Comparison of Petroleum Types for All Samples Interpreted					
Carrier Oil Only			47%		
Carrier Oil and Lube/Motor Oil			19%		
Lube/Motor Oil Only				19%	
Other Heavy Oil Only					15%

Table 6-8

Groundwater Analytical Data Summer 2012

R.G. Haley Site

Bellingham, Washington

Yellow Fill indicates result > screening level

Blue Fill indicates the reporting limit > screening level

U = not detected; J = estimated; T = summed result

Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples CL-MW-1_05092012 5/09/12 --	GeoEngineers Samples CL-MW-1H_05092012 5/09/12 --	GeoEngineers Samples CL-MW-6_05092012 5/09/12 --	GeoEngineers Samples CL-MW-9_05092012 5/09/12 --	GeoEngineers Samples CL-MW-9 DUP_05092012 5/09/12 --	GeoEngineers Samples CL-MW-101_7182012 7/18/12 --	GeoEngineers Samples CL-MW-102_7182012 7/18/12 --	GeoEngineers Samples CL-MW-102 DUP_07182012 7/18/12 --	GeoEngineers Samples CL-MW-103_7182012 7/18/12 --	GeoEngineers Samples HS-MW-4_05092012 5/09/12 --	GeoEngineers Samples HS-MW-5_05092012 5/09/12 --
CONVENTIONALS													
Ammonia-Nitrogen	mg/l		--	--	--	--	--	--	--	--	--	--	--
Cyanide	mg/l		--	--	--	--	--	--	--	--	--	--	--
Cyanide (Post Chlorination)	mg/l		--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/l		--	--	--	--	--	--	--	--	--	--	--
UN-ionized Ammonia	mg/l		--	--	--	--	--	--	--	--	--	--	--
METALS													
Arsenic	ug/l	**5**	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/l	**2.4**	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/l	**8.1**	--	--	--	--	--	--	--	--	--	--	--
Manganese	ug/l	**100**	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/l	**0.025**	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/l	**81**	--	--	--	--	--	--	--	--	--	--	--
TPH													
Gasoline-range hydrocarbons	mg/l		--	--	--	--	--	--	--	--	--	--	--
Diesel-range hydrocarbons	mg/l		0.27 U	**1.8**	**3.8**	0.26 U	0.26 U	**1.2 J**	**0.74 J**	**0.87 J**	**1.7 J**	**4.4**	**0.72**
Lube Oil-range Hydrocarbons	mg/l		0.44 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	**0.5**	**0.84**	0.42 U
TPH (Sum)	mg/l		0.355 UT	**2.005 T**	**4.005 T**	0.335 UT	0.335 UT	**1.405 JT**	**0.945 JT**	**1.075 JT**	**2.2 JT**	**5.24 T**	**0.93 T**
BETX													
Benzene	ug/l	**2.4**	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/l	**2100**	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	**15000**	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/l	**310**	--	--	--	--	--	--	--	--	--	--	--
D/F_COMBINED													
1,2,3,4,6,7,8-HpCDD	pg/l		--	--	--	--	--	**120**	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	pg/l		--	--	--	--	--	**8.26 J**	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	pg/l		--	--	--	--	--	**0.93 J**	--	--	--	--	--
1,2,3,4,7,8-HxCDD	pg/l		--	--	--	--	--	**0.808 J**	--	--	--	--	--
1,2,3,4,7,8-HxCDF	pg/l		--	--	--	--	--	0.756 U	--	--	--	--	--
1,2,3,6,7,8-HxCDD	pg/l		--	--	--	--	--	2.16 U	--	--	--	--	--
1,2,3,6,7,8-HxCDF	pg/l		--	--	--	--	--	0.382 U	--	--	--	--	--
1,2,3,7,8,9-HxCDD	pg/l		--	--	--	--	--	**1.94 J**	--	--	--	--	--
1,2,3,7,8,9-HxCDF	pg/l		--	--	--	--	--	0.336 U	--	--	--	--	--
1,2,3,7,8-PeCDD	pg/l		--	--	--	--	--	0.37 U	--	--	--	--	--
1,2,3,7,8-PeCDF	pg/l		--	--	--	--	--	0.338 U	--	--	--	--	--
2,3,4,6,7,8-HxCDF	pg/l		--	--	--	--	--	0.446 U	--	--	--	--	--
2,3,4,7,8-PeCDF	pg/l		--	--	--	--	--	0.396 U	--	--	--	--	--
2,3,7,8-TCDD	pg/l		--	--	--	--	--	2.43 U	--	--	--	--	--
2,3,7,8-TCDF	pg/l		--	--	--	--	--	0.198 U	--	--	--	--	--
OCDD	pg/l		--	--	--	--	--	**2450**	--	--	--	--	--
OCDF	pg/l		--	--	--	--	--	**61.9 J**	--	--	--	--	--
Dioxin TEQ	pg/l		--	--	--	--	--	**3.99864 JT**	--	--	--	--	--
PAHs													
1-Methylnaphthalene	ug/l	**15**	0.12 U	**43**	**240**	0.042 U	0.19 U	**95**	**31**	**40**	**170**	**390**	**29**
2-Methylnaphthalene	ug/l	**15**	0.011 U	0.0095 U	**180**	0.033 U	0.25 U	**1.8**	**12**	**16**	**190**	**570**	**30**
Acenaphthene	ug/l	**3.3**	**0.14**	**9.4**	**14**	**0.015**	**0.02**	**4.4**	**1.6**	**1.8**	**5**	**24**	**1.6**
Acenaphthylene	ug/l	**13**	0.0095 U	**1.3**	**2.3**	0.0096 U	0.0095 U	**0.66**	**0.24**	**0.3**	**0.76**	**3.4**	**0.25**
Anthracene	ug/l	**9.6**	**0.011**	**5**	**0.67**	**0.025**	**0.028**	**0.085**	**0.088**	**0.098**	**0.15**	0.048 U	**0.028**
Benzo(ghi)perylene	ug/l	**0.016**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0096 U
Fluoranthene	ug/l	**3.3**	**0.013**	**0.13**	**0.14**	0.0096 U	0.0095 U	**0.085**	0.048 U	0.048 U	0.048 U	**0.51**	**0.015**
Fluorene	ug/l	**3**	**0.098**	**9.4**	**14**	0.0096 U	**0.016**	**3.1**	**1.1**	**1.3**	**4.3**	**26**	**1**
Naphthalene	ug/l	**83**	0.026 U	**1.9**	**1.2**	0.013 U	0.016 U	**1.1**	**4.9**	**6.6**	**12**	**8.3**	**1.5**
Phenanthrene	ug/l	**6**	**0.022**	**5.3**	**15**	**0.018**	**0.022**	**2.3**	**1.1**	**1.3**	**3.6**	**37**	**0.29**
Pyrene	ug/l	**15**	**0.02**	**0.3**	**0.39**	0.0096 U	0.0095 U	**0.055**	**0.051**	**0.054**	**0.11**	**2.6**	**0.012**

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples CL-MW-1_05092012 5/09/12 --	GeoEngineers Samples CL-MW-1H_05092012 5/09/12 --	GeoEngineers Samples CL-MW-6_05092012 5/09/12 --	GeoEngineers Samples CL-MW-9_05092012 5/09/12 --	GeoEngineers Samples CL-MW-9 DUP_05092012 5/09/12 --	GeoEngineers Samples CL-MW-101_7182012 7/18/12 --	GeoEngineers Samples CL-MW-102_7182012 7/18/12 --	GeoEngineers Samples CL-MW-102 DUP_07182012 7/18/12 --	GeoEngineers Samples CL-MW-103_7182012 7/18/12 --	GeoEngineers Samples HS-MW-4_05092012 5/09/12 --	GeoEngineers Samples HS-MW-5_05092012 5/09/12 --
cPAHs													
Benzo(a)anthracene	ug/l	**0.018**	**0.031**	**0.016**	**0.048**	0.0096 U	0.0095 U	**0.01**	0.048 U	0.048 U	0.048 U	**0.36**	0.0096 U
Benzo(a)pyrene	ug/l	**0.018**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0096 U
Benzo(b)fluoranthene	ug/l	**0.018**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	**0.061**	0.0096 U
Benzo(j,k)fluoranthene	ug/l	**0.018**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	**0.12**	0.0096 U
Chrysene	ug/l	**0.018**	0.0095 U	**0.017**	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	**0.079**	0.0096 U
Dibenzo(a,h)anthracene	ug/l	**0.01**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0096 U
Indeno(1,2,3-cd)pyrene	ug/l	**0.01**	0.0095 U	0.0095 U	0.048 U	0.0096 U	0.0095 U	0.0095 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0096 U
cPAH TEQ	ug/l	**0.018**	**0.009797 T**	**0.00842 T**	**0.03864 T**	0.007248 UT	0.007172 UT	**0.007697 T**	0.03624 UT	0.03624 UT	0.03624 UT	**0.08369 T**	0.007248 UT
SVOCs													
1,2,4-Trichlorobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
1,2-Diphenylhydrazine	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
1,3-Dinitrobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,3,4,6-Tetrachlorophenol	ug/l	**320**	0.95 U	0.95 U	**22**	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,3,5,6-Tetrachlorophenol	ug/l	**320**	0.95 U	0.95 U	**10**	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,3-DICHLOROANILINE	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,4,5-Trichlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,4,6-Trichlorophenol	ug/l	**5**	0.018 U	**0.039**	**0.6**	0.018 U	–	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U
2,4-Dichlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,4-Dimethylphenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,4-Dinitrophenol	ug/l		4.7 U	4.8 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
2,4-Dinitrotoluene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2,6-Dinitrotoluene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2-Chloronaphthalene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2-Chlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
2-Nitrophenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
3,3'-Dichlorobenzidine	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
3-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4,6-Dinitro-2-Methylphenol	ug/l		4.7 U	4.8 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
4-Bromophenyl phenyl ether	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4-Chloro-3-Methylphenol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4-Chloroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4-Chlorophenyl-Phenylether	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
4-Nitrophenol (p-Nitrophenol)	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Aniline	ug/l		4.7 U	4.8 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Benzene, 1,4-Dinitro-	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Benzidine	ug/l		4.7 U	4.8 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Benzoic Acid	ug/l		--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Bis(2-Chloroethoxy)Methane	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Bis(2-Chloroethyl)Ether	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Bis(2-chloroisopropyl) ether	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Bis(2-Ethylhexyl) Phthalate	ug/l	**1**	**0.98**	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	**1.5**	0.96 U
Butyl benzyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Carbazole	ug/l	**1.6**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	**1.6**	**1.9**	0.96 U
Dibenzofuran	ug/l	**1.6**	0.95 U	**3.3**	**6.1**	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	**1.7**	0.95 U	0.96 U
Dibutyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Diethyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Dimethyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Di-N-Octyl Phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Hexachlorobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Hexachlorobutadiene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Hexachlorocyclopentadiene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Hexachloroethane	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/l		4.7 U	4.8 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Isophorone	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
m,p-Cresol	ug/l	**79**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	**43**	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Nitrobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
N-Nitrosodimethylamine	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
N-Nitrosodi-n-propylamine	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
N-Nitrosodiphenylamine	ug/l	**6**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
o-Cresol (2-methylphenol)	ug/l	**79**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
O-DINITROBENZENE	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
p-Cresol (4-methylphenol)	ug/l		--	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates result > screening level Blue Fill indicates the reporting limit > screening level U = not detected; J = estimated; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Screening Levels**	**GeoEngineers Samples CL-MW-1_05092012 5/09/12 --**	**GeoEngineers Samples CL-MW-1H_05092012 5/09/12 --**	**GeoEngineers Samples CL-MW-6_05092012 5/09/12 --**	**GeoEngineers Samples CL-MW-9_05092012 5/09/12 --**	**GeoEngineers Samples CL-MW-9 DUP_05092012 5/09/12 --**	**GeoEngineers Samples CL-MW-101_7182012 7/18/12 --**	**GeoEngineers Samples CL-MW-102_7182012 7/18/12 --**	**GeoEngineers Samples CL-MW-102 DUP_07182012 7/18/12 --**	**GeoEngineers Samples CL-MW-103_7182012 7/18/12 --**	**GeoEngineers Samples HS-MW-4_05092012 5/09/12 --**	**GeoEngineers Samples HS-MW-5_05092012 5/09/12 --**
Pentachlorophenol	ug/l	**3**	0.0092 U	**0.75**	**100**	**0.014**	--	**0.011**	**0.037**	**0.035**	**0.7**	**0.23**	0.0091 U
Phenol	ug/l	**580**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	**1.3**	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Pyridine	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
VOCs													
1,1,1-Trichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	**1300**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
1,2-Dichloroethane (EDC)	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l	**5**	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.95 U	0.96 U	0.95 U	0.95 U	0.96 U
Bromochloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/l	**100**	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/l		--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/l		--	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples HS-MW-6_05082012 5/08/12 --	GeoEngineers Samples HS-MW-7_05092012 5/09/12 --	GeoEngineers Samples HS-MW-9_05092012 5/09/12 --	GeoEngineers Samples HS-MW-13_05092012 5/09/12 --	GeoEngineers Samples HS-MW-15_05092012 5/09/12 --	GeoEngineers Samples HS-MW-16_05092012 5/09/12 --	GeoEngineers Samples HS-MW-17_7182012 7/18/12 --	GeoEngineers Samples HS-MW-19_7172012 7/17/12 --	GeoEngineers Samples TL-MW-1_05082012 5/08/12 --	GeoEngineers Samples TL-MW-7_05092012 5/09/12 --	GeoEngineers Samples TL-MW-9_05082012 5/08/12 --
CONVENTIONALS													
Ammonia-Nitrogen	mg/l		--	--	--	--	--	--	--	--	--	--	--
Cyanide	mg/l		--	--	--	--	--	--	--	--	--	--	--
Cyanide (Post Chlorination)	mg/l		--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/l		--	--	--	--	--	--	--	--	--	--	--
UN-ionized Ammonia	mg/l		--	--	--	--	--	--	--	--	--	--	--
METALS													
Arsenic	ug/l	**5**	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/l	**2.4**	--	0.5 U	--	0.5 U	--	--	**1.3**	--	**0.68**	--	--
Lead	ug/l	**8.1**	--	--	--	--	--	--	--	--	--	--	--
Manganese	ug/l	**100**	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/l	**0.025**	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/l	**81**	--	--	--	--	--	--	--	--	--	--	--
TPH													
Gasoline-range hydrocarbons	mg/l		--	--	--	--	--	--	--	--	--	--	--
Diesel-range hydrocarbons	mg/l		**2.1**	**3.6**	0.26 U	**2.9**	0.26 U	0.26 U	**0.31 J**	**2.5 J**	**0.28**	**6.9**	**0.56**
Lube Oil-range Hydrocarbons	mg/l		0.41 U	0.41 U	0.42 U	0.41 U	0.41 U	0.42 U	0.41 U	0.41 U	0.42 U	0.44 U	0.44 U
TPH (Sum)	mg/l		**2.305 T**	**3.805 T**	0.34 UT	**3.105 T**	0.335 UT	0.34 UT	**0.515 JT**	**2.705 JT**	**0.49 T**	**7.12 T**	**0.78 T**
BETX													
Benzene	ug/l	**2.4**	--	0.2 U	--	**0.29**	--	--	--	--	--	--	--
Ethylbenzene	ug/l	**2100**	--	0.2 U	--	**0.81**	--	--	--	--	--	--	--
Toluene	ug/l	**15000**	--	0.4 U	--	0.4 U	--	--	--	--	--	--	--
Total Xylenes	ug/l	**310**	--	**0.31 T**	--	**0.58 T**	--	--	--	--	--	--	--
D/F_COMBINED													
1,2,3,4,6,7,8-HpCDD	pg/l		--	--	--	**1600**	**303**	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	pg/l		--	--	--	**311**	**63.6**	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	pg/l		--	--	--	**21.6 J**	3.34 U	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	pg/l		--	--	--	0.58 U	4.29 U	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	pg/l		--	--	--	**23 J**	**3.78 J**	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	pg/l		--	--	--	**55**	**10.4 J**	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	pg/l		--	--	--	**5.12 J**	8 U	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	pg/l		--	--	--	3.58 U	1.48 U	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	pg/l		--	--	--	**9.1 J**	10.9 U	--	--	--	--	--	--
1,2,3,7,8-PeCDD	pg/l		--	--	--	2 U	0.56 U	--	--	--	--	--	--
1,2,3,7,8-PeCDF	pg/l		--	--	--	**5.2 J**	2.61 U	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	pg/l		--	--	--	**11.1 J**	2.18 U	--	--	--	--	--	--
2,3,4,7,8-PeCDF	pg/l		--	--	--	**4.96 J**	1.98 U	--	--	--	--	--	--
2,3,7,8-TCDD	pg/l		--	--	--	3.25 U	2.92 U	--	--	--	--	--	--
2,3,7,8-TCDF	pg/l		--	--	--	1.3 U	0.861 U	--	--	--	--	--	--
OCDD	pg/l		--	--	--	**16500**	**2550**	--	--	--	--	--	--
OCDF	pg/l		--	--	--	**1700**	**347**	--	--	--	--	--	--
Dioxin TEQ	pg/l		--	--	--	**39.66 JT**	**9.4315 T**	--	--	--	--	--	--
PAHs													
1-Methylnaphthalene	ug/l	**15**	**200**	**330**	0.047 U	**210**	0.14 U	0.51 U	**0.54**	**200**	**5.3**	0.46 U	**430**
2-Methylnaphthalene	ug/l	**15**	**74**	**380**	0.03 U	**200**	0.13 U	0.58 U	**0.64**	**220**	**3.7**	0.29 U	**170**
Acenaphthene	ug/l	**3.3**	**6**	**10**	**0.018**	**9.4**	**0.092**	**0.13**	0.048 U	**8.2**	**1.5**	**0.25**	**18**
Acenaphthylene	ug/l	**13**	**0.59**	**1.5**	0.01 U	**1.5**	0.01 U	**0.02**	0.048 U	**1.2**	**0.22**	**0.099**	**3.7**
Anthracene	ug/l	**9.6**	**0.098**	**0.26**	**0.027**	**0.31**	**0.016**	**0.043**	0.048 U	**0.19**	**0.078**	**0.14**	**1.2**
Benzo(ghi)perylene	ug/l	**0.016**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	0.0097 U	0.048 U	0.047 U	0.048 U	**0.081**	**0.27**
Fluoranthene	ug/l	**3.3**	**0.043**	**0.059**	0.01 U	**0.24**	**0.01**	0.0097 U	0.048 U	0.047 U	0.048 U	**0.099**	**2**
Fluorene	ug/l	**3**	**3.4**	**8**	0.01 U	**7.8**	**0.031**	**0.14**	0.048 U	**6.8**	**0.44**	**0.2**	**15**
Naphthalene	ug/l	**83**	**2**	**2.4**	0.011 U	**2.8**	0.028 U	0.03 U	**4.1**	**20**	**0.4**	0.095 U	**3.9**
Phenanthrene	ug/l	**6**	**0.65**	**5.7**	**0.015**	**7.2**	**0.06**	**0.3**	**0.059**	**4.2**	**0.64**	**0.2**	**25**
Pyrene	ug/l	**15**	**0.04**	**0.09**	0.01 U	**0.41**	**0.054**	**0.064**	0.048 U	**0.076**	**0.063**	**0.13**	**2.7**

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples HS-MW-6_05082012 5/08/12 --	GeoEngineers Samples HS-MW-7_05092012 5/09/12 --	GeoEngineers Samples HS-MW-9_05092012 5/09/12 --	GeoEngineers Samples HS-MW-13_05092012 5/09/12 --	GeoEngineers Samples HS-MW-15_05092012 5/09/12 --	GeoEngineers Samples HS-MW-16_05092012 5/09/12 --	GeoEngineers Samples HS-MW-17_7182012 7/18/12 --	GeoEngineers Samples HS-MW-19_7172012 7/17/12 --	GeoEngineers Samples TL-MW-1_05082012 5/08/12 --	GeoEngineers Samples TL-MW-7_05092012 5/09/12 --	GeoEngineers Samples TL-MW-9_05082012 5/08/12 --
cPAHs													
Benzo(a)anthracene	ug/l	**0.018**	0.0096 U	0.048 U	0.01 U	**0.078**	**0.01**	**0.021**	0.048 U	0.047 U	**0.048**	**0.13**	**0.58**
Benzo(a)pyrene	ug/l	**0.018**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	**0.0098**	0.048 U	0.047 U	0.048 U	**0.086**	**0.43**
Benzo(b)fluoranthene	ug/l	**0.018**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	**0.013**	0.048 U	0.047 U	0.048 U	**0.079**	**0.5**
Benzo(j,k)fluoranthene	ug/l	**0.018**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	0.0097 U	0.048 U	0.047 U	0.048 U	**0.072**	**0.15**
Chrysene	ug/l	**0.018**	0.0096 U	0.048 U	0.01 U	**0.059**	0.01 U	**0.014**	0.048 U	0.047 U	0.048 U	**0.078**	**0.56**
Dibenzo(a,h)anthracene	ug/l	**0.01**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	0.0097 U	0.048 U	0.047 U	0.048 U	**0.08**	**0.063**
Indeno(1,2,3-cd)pyrene	ug/l	**0.01**	0.0096 U	0.048 U	0.01 U	0.048 U	0.01 U	0.0097 U	0.048 U	0.047 U	0.048 U	**0.078**	**0.27**
cPAH TEQ	ug/l	**0.018**	0.007248 UT	0.03624 UT	0.00755 UT	**0.04199 T**	**0.00805 T**	**0.014795 T**	0.03624 UT	0.035485 UT	**0.03864 T**	**0.13068 T**	**0.5919 T**
SVOCs													
1,2,4-Trichlorobenzene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
1,2-Diphenylhydrazine	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
1,3-Dinitrobenzene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,3,4,6-Tetrachlorophenol	ug/l	**320**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,3,5,6-Tetrachlorophenol	ug/l	**320**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,3-DICHLOROANILINE	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,4,5-Trichlorophenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,4,6-Trichlorophenol	ug/l	**5**	0.018 U	0.018 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	**0.031**	**0.12**	**0.03**
2,4-Dichlorophenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,4-Dimethylphenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,4-Dinitrophenol	ug/l		4.8 U	4.8 U	5.1 U	4.8 U	5 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.9 U
2,4-Dinitrotoluene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2,6-Dinitrotoluene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2-Chloronaphthalene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2-Chlorophenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2-Nitroaniline	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
2-Nitrophenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
3,3'-Dichlorobenzidine	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
3-Nitroaniline	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4,6-Dinitro-2-Methylphenol	ug/l		4.8 U	4.8 U	5.1 U	4.8 U	5 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.9 U
4-Bromophenyl phenyl ether	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4-Chloro-3-Methylphenol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4-Chloroaniline	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4-Chlorophenyl-Phenylether	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4-Nitroaniline	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
4-Nitrophenol (p-Nitrophenol)	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Aniline	ug/l		4.8 U	4.8 U	5.1 U	4.8 U	5 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.9 U
Benzene, 1,4-Dinitro-	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Benzidine	ug/l		4.8 U	4.8 U	5.1 U	4.8 U	5 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.9 U
Benzoic Acid	ug/l		--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Bis(2-Chloroethoxy)Methane	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Bis(2-Chloroethyl)Ether	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Bis(2-chloroisopropyl) ether	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Bis(2-Ethylhexyl) Phthalate	ug/l	**1**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	**1.7**
Butyl benzyl phthalate	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Carbazole	ug/l	**1.6**	**1.3**	**3.2**	1 U	0.96 U	1 U	0.97 U	0.95 U	**1.6**	0.96 U	0.96 U	**1.3**
Dibenzofuran	ug/l	**1.6**	**1.3**	**2.9**	1 U	**1.1**	1 U	0.97 U	0.95 U	**2.2**	0.96 U	0.96 U	0.97 U
Dibutyl phthalate	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Diethyl phthalate	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Dimethyl phthalate	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Di-N-Octyl Phthalate	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Hexachlorobenzene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Hexachlorobutadiene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Hexachlorocyclopentadiene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Hexachloroethane	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/l		4.8 U	4.8 U	5.1 U	4.8 U	5 U	4.8 U	4.8 U	4.7 U	4.8 U	4.8 U	4.9 U
Isophorone	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
m,p-Cresol	ug/l	**79**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	**11**	0.95 U	0.96 U	0.96 U	0.97 U
Nitrobenzene	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
N-Nitrosodimethylamine	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
N-Nitrosodi-n-propylamine	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
N-Nitrosodiphenylamine	ug/l	**6**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
o-Cresol (2-methylphenol)	ug/l	**79**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
O-DINITROBENZENE	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
p-Cresol (4-methylphenol)	ug/l		--	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples HS-MW-6_05082012 5/08/12 --	GeoEngineers Samples HS-MW-7_05092012 5/09/12 --	GeoEngineers Samples HS-MW-9_05092012 5/09/12 --	GeoEngineers Samples HS-MW-13_05092012 5/09/12 --	GeoEngineers Samples HS-MW-15_05092012 5/09/12 --	GeoEngineers Samples HS-MW-16_05092012 5/09/12 --	GeoEngineers Samples HS-MW-17_7182012 7/18/12 --	GeoEngineers Samples HS-MW-19_7172012 7/17/12 --	GeoEngineers Samples TL-MW-1_05082012 5/08/12 --	GeoEngineers Samples TL-MW-7_05092012 5/09/12 --	GeoEngineers Samples TL-MW-9_05082012 5/08/12 --
Pentachlorophenol	ug/l	**3**	**0.033**	**0.12**	0.0097 U	**0.039**	0.0091 U	0.0091 U	**0.013**	**0.77**	**0.042**	**0.93**	**0.45**
Phenol	ug/l	**580**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Pyridine	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
VOCs													
1,1,1-Trichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	**1300**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
1,2-Dichloroethane (EDC)	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l	**5**	0.96 U	0.95 U	1 U	0.96 U	1 U	0.97 U	0.95 U	0.95 U	0.96 U	0.96 U	0.97 U
Bromochloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/l	**100**	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/l		--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/l		--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/l		--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/l		--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/l		--	--	--	--	--	--	--	--	--	--	--

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples TL-MW-11_05082012 5/08/12 --	GeoEngineers Samples TL-MW-12_7182012 7/18/12 --	GeoEngineers Samples TL-MW-13_7172012 7/17/12 --	GeoEngineers Samples TL-MW-14_7172012 7/17/12 --	GeoEngineers Samples TL-MW-15_7182012 7/18/12 --	GeoEngineers Samples TL-MW-16_7172012 7/17/12 --	Landau Samples MW-11D_120731 7/31/12 --	Landau Samples MW-11D_120924 9/24/12 --	Landau Samples MW-11S_120731 7/31/12 --	Landau Samples MW-11S_120924 9/24/12 --	Landau Samples MW-12D_120731 7/31/12 --
CONVENTIONALS													
Ammonia-Nitrogen	mg/l		--	--	--	--	--	--	**4.23**	4.19 U	**4.52**	**4.79**	**12**
Cyanide	mg/l		--	--	--	--	--	--	0.005 U	**0.005**	0.005 U	0.005 U	0.005 U
Cyanide (Post Chlorination)	mg/l		--	--	--	--	--	--	0.005 U	**0.005**	0.005 U	0.005 U	0.005 U
Total Organic Carbon	mg/l		--	--	--	--	--	--	**21.5**	**33.8**	**22.4**	**20.3**	**26.5**
UN-ionized Ammonia	mg/l		--	--	--	--	--	--	**0.132**	**0.001**	**0.146409866**	**0.00510937**	**0.005**
METALS													
Arsenic	ug/l	**5**	--	--	--	--	--	--	**0.4**	0.5 U	**1.3**	0.5 U	0.5 U
Copper	ug/l	**2.4**	--	--	--	--	**1.8**	--	**0.7**	0.5 U	**2.6**	**0.9**	**0.6**
Lead	ug/l	**8.1**	--	--	--	--	--	--	0.1 U	0.1 U	**1**	**0.2**	0.1 U
Manganese	ug/l	**100**	--	--	--	--	--	--	**84**	**72**	**1430**	**858**	**163**
Mercury	ug/l	**0.025**	--	--	--	--	--	--	20 U	**20**	20 U	20 U	20 U
Zinc	ug/l	**81**	--	--	--	--	--	--	4 U	**4**	**26**	4 U	4 U
TPH													
Gasoline-range hydrocarbons	mg/l		--	--	--	--	--	--	--	--	--	--	--
Diesel-range hydrocarbons	mg/l		**0.31**	**5.8 J**	**0.82 J**	**2.3 J**	**0.31 J**	0.26 U	--	--	--	--	--
Lube Oil-range Hydrocarbons	mg/l		0.42 U	0.41 U	0.41 U	0.44 U	0.41 U	0.41 U	--	--	--	--	--
TPH (Sum)	mg/l		**0.52 T**	**6.005 JT**	**1.025 JT**	**2.52 JT**	**0.515 JT**	0.335 UT	--	--	--	--	--
BETX													
Benzene	ug/l	**2.4**	--	--	1 U	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	ug/l	**2100**	--	--	**1.1**	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	ug/l	**15000**	--	--	0.4 U	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Xylenes	ug/l	**310**	--	--	1 UT	--	--	--	0.4 UT	0.4 UT	0.4 UT	0.4 UT	0.4 UT
D/F_COMBINED													
1,2,3,4,6,7,8-HpCDD	pg/l		**10600**	--	--	--	--	**196**	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	pg/l		**1380**	--	--	--	--	**24.2 J**	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	pg/l		**84.7**	--	--	--	--	2.31 U	--	--	--	--	--
1,2,3,4,7,8-HxCDD	pg/l		**5.88 J**	--	--	--	--	**1.62 J**	--	--	--	--	--
1,2,3,4,7,8-HxCDF	pg/l		**109**	--	--	--	--	**0.782 J**	--	--	--	--	--
1,2,3,6,7,8-HxCDD	pg/l		**527**	--	--	--	--	**4.12 J**	--	--	--	--	--
1,2,3,6,7,8-HxCDF	pg/l		**30.5 J**	--	--	--	--	0.272 U	--	--	--	--	--
1,2,3,7,8,9-HxCDD	pg/l		23.8 U	--	--	--	--	1.76 U	--	--	--	--	--
1,2,3,7,8,9-HxCDF	pg/l		**58.9**	--	--	--	--	2.75 U	--	--	--	--	--
1,2,3,7,8-PeCDD	pg/l		2.56 U	--	--	--	--	2.65 U	--	--	--	--	--
1,2,3,7,8-PeCDF	pg/l		**28.5 J**	--	--	--	--	**0.514 J**	--	--	--	--	--
2,3,4,6,7,8-HxCDF	pg/l		**70.1**	--	--	--	--	0.222 U	--	--	--	--	--
2,3,4,7,8-PeCDF	pg/l		**25 J**	--	--	--	--	0.635 U	--	--	--	--	--
2,3,7,8-TCDD	pg/l		3.56 U	--	--	--	--	2.42 U	--	--	--	--	--
2,3,7,8-TCDF	pg/l		**10.1**	--	--	--	--	1.32 U	--	--	--	--	--
OCDD	pg/l		**90700**	--	--	--	--	**2910**	--	--	--	--	--
OCDF	pg/l		**5350**	--	--	--	--	**222**	--	--	--	--	--
Dioxin TEQ	pg/l		**243.215 JT**	--	--	--	--	**6.76722 T**	--	--	--	--	--
PAHs													
1-Methylnaphthalene	ug/l	**15**	**5.9**	**520**	**27**	**170**	**3.8**	**0.31**	0.01 U	0.1 U	**0.082**	0.1 U	**0.053**
2-Methylnaphthalene	ug/l	**15**	**2**	**680**	**23**	**4.2**	**0.34**	**0.13**	0.01 U	0.1 U	**0.052**	0.1 U	**0.034**
Acenaphthene	ug/l	**3.3**	**1**	**17**	**1.7**	**7.7**	**0.26**	**0.069**	0.01 U	0.1 U	**0.042**	0.1 U	**0.025**
Acenaphthylene	ug/l	**13**	**0.13**	**2.9**	**0.29**	**1.3**	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Anthracene	ug/l	**9.6**	**0.063**	**0.45**	**0.1**	**0.13**	0.047 U	0.048 U	0.01 U	0.1 U	**0.01**	0.1 U	0.01 U
Benzo(ghi)perylene	ug/l	**0.016**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Fluoranthene	ug/l	**3.3**	**0.083**	**0.21**	**0.075**	**0.062**	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Fluorene	ug/l	**3**	**0.86**	**14**	**1**	**4.9**	0.047 U	0.048 U	0.01 U	0.1 U	**0.036**	0.1 U	**0.023**
Naphthalene	ug/l	**83**	**0.15**	**32**	**2.2**	**1**	**0.12**	**0.1**	0.01 U	0.1 U	**0.027**	0.1 U	**0.046**
Phenanthrene	ug/l	**6**	**0.41**	**14**	**1.8**	**4.2**	**0.062**	**0.066**	0.01 U	0.1 U	**0.065**	0.1 U	**0.04**
Pyrene	ug/l	**15**	**0.094**	**0.38**	**0.13**	**0.085**	0.047 U	**0.059**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	GeoEngineers Samples TL-MW-11_05082012 5/08/12 --	GeoEngineers Samples TL-MW-12_7182012 7/18/12 --	GeoEngineers Samples TL-MW-13_7172012 7/17/12 --	GeoEngineers Samples TL-MW-14_7172012 7/17/12 --	GeoEngineers Samples TL-MW-15_7182012 7/18/12 --	GeoEngineers Samples TL-MW-16_7172012 7/17/12 --	Landau Samples MW-11D_120731 7/31/12 --	Landau Samples MW-11D_120924 9/24/12 --	Landau Samples MW-11S_120731 7/31/12 --	Landau Samples MW-11S_120924 9/24/12 --	Landau Samples MW-12D_120731 7/31/12 --
cPAHs													
Benzo(a)anthracene	ug/l	**0.018**	**0.049**	**0.055**	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Benzo(a)pyrene	ug/l	**0.018**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Benzo(b)fluoranthene	ug/l	**0.018**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U
Benzo(j,k)fluoranthene	ug/l	**0.018**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U
Chrysene	ug/l	**0.018**	0.047 U	**0.048**	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Dibenzo(a,h)anthracene	ug/l	**0.01**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Indeno(1,2,3-cd)pyrene	ug/l	**0.01**	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
cPAH TEQ	ug/l	**0.018**	**0.038035 T**	**0.03888 T**	0.03624 UT	0.035485 UT	0.035485 UT	0.03624 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT
SVOCs													
1,2,4-Trichlorobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
1,2-Diphenylhydrazine	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
1,3-Dinitrobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/l	**320**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/l	**320**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
2,3-DICHLOROANILINE	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
2,4,5-Trichlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/l	**5**	0.95 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	5 U	3 U	5 U	3 U	5 U
2,4-Dichlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
2,4-Dimethylphenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	3 U	1 U	3 U	1 U
2,4-Dinitrophenol	ug/l		4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.8 U	10 U	20 U	10 U	20 U	10 U
2,4-Dinitrotoluene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
2,6-Dinitrotoluene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
2-Chloronaphthalene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
2-Chlorophenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
2-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
2-Nitrophenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
3,3'-Dichlorobenzidine	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
4,6-Dinitro-2-Methylphenol	ug/l		4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.8 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-Methylphenol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
4-Chloroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-Phenylether	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
4-Nitroaniline	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	3 U	5 U	3 U	5 U
4-Nitrophenol (p-Nitrophenol)	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	10 U	5 U	10 U	5 U
Aniline	ug/l		4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.8 U	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
Benzidine	ug/l		4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.8 U	--	--	--	--	--
Benzoic Acid	ug/l		--	--	--	--	--	--	10 U	20 U	10 U	20 U	10 U
Benzyl Alcohol	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	2 U	5 U	2 U	5 U
Bis(2-Chloroethoxy)Methane	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroethyl)Ether	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Bis(2-chloroisopropyl) ether	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/l	**1**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**1.7**	3 U	**1.2**	3 U	**1.4**
Butyl benzyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Carbazole	ug/l	**1.6**	0.95 U	**3.4**	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Dibenzofuran	ug/l	**1.6**	0.95 U	**4.8**	0.95 U	0.95 U	0.95 U	0.95 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U
Dibutyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Diethyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Dimethyl phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Di-N-Octyl Phthalate	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	2 U	1 U	2 U	1 U
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/l		4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.8 U	--	--	--	--	--
Isophorone	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
m,p-Cresol	ug/l	**79**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
Nitrobenzene	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodimethylamine	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	ug/l	**6**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
o-Cresol (2-methylphenol)	ug/l	**79**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
O-DINITROBENZENE	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/l		--	--	--	--	--	--	1 U	2 U	1 U	2 U	1 U

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Analyte	Unit	Screening Levels	GeoEngineers Samples TL-MW-11_05082012 5/08/12 --	GeoEngineers Samples TL-MW-12_7182012 7/18/12 --	GeoEngineers Samples TL-MW-13_7172012 7/17/12 --	GeoEngineers Samples TL-MW-14_7172012 7/17/12 --	GeoEngineers Samples TL-MW-15_7182012 7/18/12 --	GeoEngineers Samples TL-MW-16_7172012 7/17/12 --	Landau Samples MW-11D_120731 7/31/12 --	Landau Samples MW-11D_120924 9/24/12 --	Landau Samples MW-11S_120731 7/31/12 --	Landau Samples MW-11S_120924 9/24/12 --	Landau Samples MW-12D_120731 7/31/12 --
Pentachlorophenol	ug/l	**3**	0.95 U	**0.03**	**0.066**	**0.12**	**0.01**	**0.063**	5 U	10 U	5 U	10 U	5 U
Phenol	ug/l	**580**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Pyridine	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
VOCs													
1,1,1-Trichloroethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	**1300**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.2 U	--	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l	**5**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform (Tribromomethane)	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	ug/l		--	--	--	--	--	--	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	ug/l	**100**	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	**0.44**
Chloroethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	ug/l		--	--	--	--	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cis-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	ug/l		--	--	--	--	--	--	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,3-Dichloropropene	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene (TCE)	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane (CFC-11)	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	ug/l		--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

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U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	Landau Samples MW-12D_120924 9/24/12 --	Landau Samples MW-12S_120731 7/31/12 --	Landau Samples MW-12S_120924 9/24/12 --	Landau Samples MW-13D_120730 7/30/12 --	Landau Samples MW-13D_120924 9/24/12 --	Landau Samples MW-13S_120730 7/30/12 --	Landau Samples MW-13S_120924 9/24/12 --	Landau Samples MW-14D_120730 7/30/12 --	Landau Samples MW-14D_120924 9/24/12 --	Landau Samples MW-14S_120730 7/30/12 --	Landau Samples MW-14S_120924 9/24/12 --
CONVENTIONALS													
Ammonia-Nitrogen	mg/l		**12.4**	**18**	**17.7**	**19.7**	**22.5**	**17.6**	**15.8**	**13.4**	**14.1**	**21.3**	**21.9**
Cyanide	mg/l		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cyanide (Post Chlorination)	mg/l		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total Organic Carbon	mg/l		**25.1**	**13.9**	**14.7**	**11.8**	**13.7**	**11.2**	**11.7**	**13.2**	**15.8**	**16.1**	**14.7**
UN-ionized Ammonia	mg/l		**0.286**	**0.048**	**0.089**	**0.105**	**0.062**	**0.23**	**0.118**	**0.007**	**0.054**	**0.015**	**0.026**
METALS													
Arsenic	ug/l	**5**	0.5 U	**0.6**	0.5 U	**0.9**	0.5 U	**0.6**	0.5 U	**0.7**	**2**	**0.8**	**0.8**
Copper	ug/l	**2.4**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Lead	ug/l	**8.1**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Manganese	ug/l	**100**	**205**	**680**	**600**	**257**	**244**	**704**	**724**	**1440**	**1340**	**584**	**498**
Mercury	ug/l	**0.025**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc	ug/l	**81**	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
TPH													
Gasoline-range hydrocarbons	mg/l		--	--	--	--	**0.33**	--	--	--	--	--	--
Diesel-range hydrocarbons	mg/l		--	--	--	--	0.1 U	--	--	--	0.1 U	0.1 U	0.1 U
Lube Oil-range Hydrocarbons	mg/l		--	--	--	--	0.2 U	--	--	--	0.2 U	0.2 U	0.2 U
TPH (Sum)	mg/l		--	--	--	--	0.15 UT	--	--	--	0.15 UT	0.15 UT	0.15 UT
BETX													
Benzene	ug/l	**2.4**	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	**0.22**	**0.22**
Ethylbenzene	ug/l	**2100**	0.2 U	**0.46**	**3.1**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	ug/l	**15000**	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Xylenes	ug/l	**310**	0.4 UT	**0.73 T**	**1.11 T**	**0.31 T**	**0.37 T**	**0.25 T**	**0.26 T**	**1.6 T**	**1.56 T**	**0.23 T**	**0.29 T**
D/F_COMBINED													
1,2,3,4,6,7,8-HpCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
OCDD	pg/l		--	--	--	--	--	--	--	--	--	--	--
OCDF	pg/l		--	--	--	--	--	--	--	--	--	--	--
Dioxin TEQ	pg/l		--	--	--	--	--	--	--	--	--	--	--
PAHs													
1-Methylnaphthalene	ug/l	**15**	**0.16**	**0.082**	**0.14**	**0.66**	**0.54**	**0.27**	**0.32**	**0.21**	**0.23**	**0.56**	**0.64**
2-Methylnaphthalene	ug/l	**15**	0.1 U	**0.025**	0.1 U	**0.48**	**0.32**	**0.12**	**0.25**	**0.13**	**0.12**	**0.32**	**0.25**
Acenaphthene	ug/l	**3.3**	0.1 U	**0.078**	0.1 U	**0.091**	**0.14**	**0.16**	**0.17**	**0.18**	**0.17**	**0.18**	**0.3**
Acenaphthylene	ug/l	**13**	0.1 U	0.01 U	0.1 U	**0.011**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Anthracene	ug/l	**9.6**	0.1 U	0.01 U	0.1 U	**0.018**	0.1 U	**0.015**	0.1 U	**0.014**	0.1 U	0.01 U	0.1 U
Benzo(ghi)perylene	ug/l	**0.016**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Fluoranthene	ug/l	**3.3**	0.1 U	**0.029**	0.1 U	**0.028**	0.1 U	**0.02**	0.1 U	**0.026**	0.1 U	**0.024**	0.1 U
Fluorene	ug/l	**3**	0.1 U	**0.069**	0.1 U	**0.16**	**0.12**	**0.12**	**0.11**	**0.12**	**0.12**	**0.14**	**0.15**
Naphthalene	ug/l	**83**	0.1 U	**0.062**	0.1 U	**0.31**	**0.24**	**0.14**	**3**	**0.12**	**0.28**	**0.084**	0.1 U
Phenanthrene	ug/l	**6**	0.1 U	**0.062**	0.1 U	**0.18**	**0.16**	**0.11**	**0.12**	**0.14**	**0.13**	**0.12**	**0.17**
Pyrene	ug/l	**15**	0.1 U	**0.019**	0.1 U	**0.025**	0.1 U	**0.018**	0.1 U	**0.02**	0.1 U	**0.03**	0.1 U

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	Landau Samples MW-12D_120924 9/24/12 --	Landau Samples MW-12S_120731 7/31/12 --	Landau Samples MW-12S_120924 9/24/12 --	Landau Samples MW-13D_120730 7/30/12 --	Landau Samples MW-13D_120924 9/24/12 --	Landau Samples MW-13S_120730 7/30/12 --	Landau Samples MW-13S_120924 9/24/12 --	Landau Samples MW-14D_120730 7/30/12 --	Landau Samples MW-14D_120924 9/24/12 --	Landau Samples MW-14S_120730 7/30/12 --	Landau Samples MW-14S_120924 9/24/12 --
cPAHs													
Benzo(a)anthracene	ug/l	**0.018**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Benzo(a)pyrene	ug/l	**0.018**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Benzo(b)fluoranthene	ug/l	**0.018**	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U
Benzo(j,k)fluoranthene	ug/l	**0.018**	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U
Chrysene	ug/l	**0.018**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Dibenzo(a,h)anthracene	ug/l	**0.01**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Indeno(1,2,3-cd)pyrene	ug/l	**0.01**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
cPAH TEQ	ug/l	**0.018**	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT
SVOCs													
1,2,4-Trichlorobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Diphenylhydrazine	ug/l		--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/l		--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/l	**320**	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/l	**320**	--	--	--	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/l		--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/l	**5**	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,4-Dichlorophenol	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,4-Dimethylphenol	ug/l		3 U	1 U	3 U	1 U	3 U	1 U	3 U	1 U	3 U	1 U	3 U
2,4-Dinitrophenol	ug/l		20 U	10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U
2,4-Dinitrotoluene	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,6-Dinitrotoluene	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2-Chloronaphthalene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chlorophenol	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Nitroaniline	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2-Nitrophenol	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
3,3'-Dichlorobenzidine	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4,6-Dinitro-2-Methylphenol	ug/l		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-Methylphenol	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4-Chloroaniline	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-Phenylether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Nitroaniline	ug/l		3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4-Nitrophenol (p-Nitrophenol)	ug/l		10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Aniline	ug/l		--	--	--	--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/l		--	--	--	--	--	--	--	--	--	--	--
Benzidine	ug/l		--	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ug/l		20 U	10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U
Benzyl Alcohol	ug/l		2 U	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U
Bis(2-Chloroethoxy)Methane	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroethyl)Ether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bis(2-chloroisopropyl) ether	ug/l		--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/l	**1**	3 U	**1.8**	3 U	**2.1**	3 U	**2.5**	3 U	**2.2**	3 U	**2.2**	3 U
Butyl benzyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbazole	ug/l	**1.6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenzofuran	ug/l	**1.6**	0.1 U	0.01 U	0.1 U	**0.024**	0.1 U	0.01 U	0.1 U	**0.019**	0.1 U	0.01 U	0.1 U
Dibutyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dimethyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Di-N-Octyl Phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	ug/l		2 U	1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/l		--	--	--	--	--	--	--	--	--	--	--
Isophorone	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Cresol	ug/l	**79**	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodimethylamine	ug/l		--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	ug/l	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
o-Cresol (2-methylphenol)	ug/l	**79**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-DINITROBENZENE	ug/l		--	--	--	--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/l		2 U	1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U

Yellow Fill indicates result > screening level Blue Fill indicates the reporting limit > screening level U = not detected; J = estimated; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Screening Levels**	**Landau Samples MW-12D_120924 9/24/12 --**	**Landau Samples MW-12S_120731 7/31/12 --**	**Landau Samples MW-12S_120924 9/24/12 --**	**Landau Samples MW-13D_120730 7/30/12 --**	**Landau Samples MW-13D_120924 9/24/12 --**	**Landau Samples MW-13S_120730 7/30/12 --**	**Landau Samples MW-13S_120924 9/24/12 --**	**Landau Samples MW-14D_120730 7/30/12 --**	**Landau Samples MW-14D_120924 9/24/12 --**	**Landau Samples MW-14S_120730 7/30/12 --**	**Landau Samples MW-14S_120924 9/24/12 --**
Pentachlorophenol	ug/l	**3**	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Phenol	ug/l	**580**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Pyridine	ug/l		--	--	--	--	--	--	--	--	--	--	--
VOCs													
1,1,1-Trichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	**1300**	--	--	--	--	--	--	--	--	--	**0.24**	**0.28**
1,2-Dichloroethane (EDC)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		--	0.2 U	--	0.2 U	--	0.2 U	--	0.2 U	--	0.2 U	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l	**5**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**
Bromochloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform (Tribromomethane)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	ug/l	**100**	**1.2**	**2.6**	**3.4**	**0.3**	**0.73**	**1.6**	**1.3**	**3.6**	**4.2**	**4.2**	**4.6**
Chloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	ug/l		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cis-1,3-Dichloropropene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,3-Dichloropropene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene (TCE)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane (CFC-11)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Yellow Fill indicates result > screening level
Blue Fill indicates the reporting limit > screening level
U = not detected; J = estimated; T = summed result
Bold = detected value

Analyte	Unit	Screening Levels	Landau Samples MW-15D_120730 7/30/12 --	Landau Samples MW-15D_120924 9/24/12 --	Landau Samples MW-15S_120730 7/30/12 --	Landau Samples MW-15S_120924 9/24/12 --	Landau Samples MW-16D_120731 7/31/12 --	Landau Samples MW-16D_120924 9/24/12 --	Landau Samples MW-16S_120730 7/30/12 --	Landau Samples MW-16S_120924 9/24/12 --
CONVENTIONALS										
Ammonia-Nitrogen	mg/l		**29.7**	**29.2**	**22.2**	**28.7**	**14.2**	**19.2**	**16.9**	**18.8**
Cyanide	mg/l		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cyanide (Post Chlorination)	mg/l		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total Organic Carbon	mg/l		**13.8**	**14.9**	**16.2**	**17**	**17.1**	**19.3**	**20.9**	**18.2**
UN-ionized Ammonia	mg/l		**0.013**	**0.012**	**0.013**	**0.025**	**0.01**	**0.115**	**0.636**	**0.08**
METALS										
Arsenic	ug/l	**5**	**0.8**	0.5 U	**0.7**	**0.9**	1 U	**0.7**	**0.8**	**0.5**
Copper	ug/l	**2.4**	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**0.5**	0.5 U	0.5 U
Lead	ug/l	**8.1**	0.1 U	0.1 U	**0.1**	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U
Manganese	ug/l	**100**	**182**	**189**	**529**	**375**	**540**	**391**	**380**	**328**
Mercury	ug/l	**0.025**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc	ug/l	**81**	4 U	4 U	4 U	4 U	**40 J**	**50**	**5**	**27**
TPH										
Gasoline-range hydrocarbons	mg/l		--	--	--	--	--	--	--	--
Diesel-range hydrocarbons	mg/l		0.1 U	0.1 U	**0.2**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Lube Oil-range Hydrocarbons	mg/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TPH (Sum)	mg/l		0.15 UT	0.15 UT	**0.3 T**	0.15 UT	0.15 UT	0.15 UT	0.15 UT	0.15 UT
BETX										
Benzene	ug/l	**2.4**	0.2 U	0.2 U	**0.51**	**0.44**	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	ug/l	**2100**	0.2 U	0.2 U	0.2 U	**0.49**	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	ug/l	**15000**	0.2 U	0.2 U	0.2 U	**0.38**	0.2 U	0.2 U	0.2 U	0.2 U
Total Xylenes	ug/l	**310**	0.4 UT	**0.2 T**	**0.28 T**	**0.32 T**	0.4 UT	0.4 UT	0.4 UT	0.4 UT
D/F_COMBINED										
1,2,3,4,6,7,8-HpCDD	pg/l		--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	pg/l		--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	pg/l		--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	pg/l		--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	pg/l		--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	pg/l		--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	pg/l		--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	pg/l		--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	pg/l		--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	pg/l		--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	pg/l		--	--	--	--	--	--	--	--
2,3,7,8-TCDD	pg/l		--	--	--	--	--	--	--	--
2,3,7,8-TCDF	pg/l		--	--	--	--	--	--	--	--
OCDD	pg/l		--	--	--	--	--	--	--	--
OCDF	pg/l		--	--	--	--	--	--	--	--
Dioxin TEQ	pg/l		--	--	--	--	--	--	--	--
PAHs										
1-Methylnaphthalene	ug/l	**15**	**0.4**	**0.32**	**2.5**	**1.6**	**0.36**	**0.16**	**0.049**	0.1 U
2-Methylnaphthalene	ug/l	**15**	**0.21**	**0.17**	**3.3**	**1.5**	**0.026**	0.1 U	**0.016**	0.1 U
Acenaphthene	ug/l	**3.3**	**0.1**	**0.11**	**1.4**	**0.76**	**0.29**	**0.52**	**0.19**	**0.29**
Acenaphthylene	ug/l	**13**	0.01 U	0.1 U	**0.038**	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Anthracene	ug/l	**9.6**	**0.011**	0.1 U	**0.14**	0.1 U	**0.013**	0.1 U	0.01 U	0.1 U
Benzo(ghi)perylene	ug/l	**0.016**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Fluoranthene	ug/l	**3.3**	**0.017**	0.1 U	**0.18**	0.1 U	**0.053**	0.1 U	0.01 U	0.1 U
Fluorene	ug/l	**3**	**0.1**	0.1 U	**1.4**	**0.58**	**0.082**	**0.13**	**0.07**	0.1 U
Naphthalene	ug/l	**83**	**0.17**	**0.11**	**3.9**	**3.7**	**0.032**	0.1 U	**0.14**	0.1 U
Phenanthrene	ug/l	**6**	**0.11**	**0.1**	**1.5**	**0.63**	**0.11**	**0.11**	**0.017**	0.1 U
Pyrene	ug/l	**15**	**0.015**	0.1 U	**0.11**	0.1 U	**0.039**	0.1 U	0.01 U	0.1 U

Yellow Fill indicates result > screening level
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Bold = detected value

Analyte	Unit	Screening Levels	Landau Samples MW-15D_120730 7/30/12 --	Landau Samples MW-15D_120924 9/24/12 --	Landau Samples MW-15S_120730 7/30/12 --	Landau Samples MW-15S_120924 9/24/12 --	Landau Samples MW-16D_120731 7/31/12 --	Landau Samples MW-16D_120924 9/24/12 --	Landau Samples MW-16S_120730 7/30/12 --	Landau Samples MW-16S_120924 9/24/12 --
cPAHs										
Benzo(a)anthracene	ug/l	**0.018**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Benzo(a)pyrene	ug/l	**0.018**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Benzo(b)fluoranthene	ug/l	**0.018**	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U
Benzo(j,k)fluoranthene	ug/l	**0.018**	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U	0.02 U	0.2 U
Chrysene	ug/l	**0.018**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Dibenzo(a,h)anthracene	ug/l	**0.01**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
Indeno(1,2,3-cd)pyrene	ug/l	**0.01**	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U	0.01 U	0.1 U
cPAH TEQ	ug/l	**0.018**	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT	0.00755 UT	0.0755 UT
SVOCs										
1,2,4-Trichlorobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Diphenylhydrazine	ug/l		--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/l		--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/l	**320**	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/l	**320**	--	--	--	--	--	--	--	--
2,3-DICHLOROANILINE	ug/l		--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/l	**5**	5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,4-Dichlorophenol	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,4-Dimethylphenol	ug/l		1 U	3 U	1 U	3 U	1 U	3 U	1 U	3 U
2,4-Dinitrophenol	ug/l		10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U
2,4-Dinitrotoluene	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2,6-Dinitrotoluene	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2-Chloronaphthalene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chlorophenol	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Nitroaniline	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
2-Nitrophenol	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
3,3'-Dichlorobenzidine	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4,6-Dinitro-2-Methylphenol	ug/l		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-Methylphenol	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4-Chloroaniline	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-Phenylether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Nitroaniline	ug/l		5 U	3 U	5 U	3 U	5 U	3 U	5 U	3 U
4-Nitrophenol (p-Nitrophenol)	ug/l		5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Aniline	ug/l		--	--	--	--	--	--	--	--
Benzene, 1,4-Dinitro-	ug/l		--	--	--	--	--	--	--	--
Benzidine	ug/l		--	--	--	--	--	--	--	--
Benzoic Acid	ug/l		10 U	20 U	10 U	20 U	10 U	20 U	10 U	20 U
Benzyl Alcohol	ug/l		5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U
Bis(2-Chloroethoxy)Methane	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroethyl)Ether	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bis(2-chloroisopropyl) ether	ug/l		--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	ug/l	**1**	**2.5**	3 U	**3**	3 U	**1.3**	3 U	**2.4**	3 U
Butyl benzyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbazole	ug/l	**1.6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenzofuran	ug/l	**1.6**	**0.016**	0.1 U	**0.54**	**0.23**	**0.012**	0.1 U	0.01 U	0.1 U
Dibutyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dimethyl phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Di-N-Octyl Phthalate	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	ug/l		1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U
Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	ug/l		--	--	--	--	--	--	--	--
Isophorone	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Cresol	ug/l	**79**	--	--	--	--	--	--	--	--
Nitrobenzene	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodimethylamine	ug/l		--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	ug/l	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Cresol (2-methylphenol)	ug/l	**79**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-DINITROBENZENE	ug/l		--	--	--	--	--	--	--	--
p-Cresol (4-methylphenol)	ug/l		1 U	2 U	1 U	2 U	1 U	2 U	1 U	2 U

Yellow Fill indicates result > screening level Blue Fill indicates the reporting limit > screening level U = not detected; J = estimated; T = summed result **Bold = detected value** **Analyte**	**Unit**	**Screening Levels**	**Landau Samples MW-15D_120730 7/30/12 --**	**Landau Samples MW-15D_120924 9/24/12 --**	**Landau Samples MW-15S_120730 7/30/12 --**	**Landau Samples MW-15S_120924 9/24/12 --**	**Landau Samples MW-16D_120731 7/31/12 --**	**Landau Samples MW-16D_120924 9/24/12 --**	**Landau Samples MW-16S_120730 7/30/12 --**	**Landau Samples MW-16S_120924 9/24/12 --**
Pentachlorophenol	ug/l	**3**	5 U	10 U	5 U	10 U	5 U	10 U	5 U	10 U
Phenol	ug/l	**580**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Pyridine	ug/l		--	--	--	--	--	--	--	--
VOCs										
1,1,1-Trichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	**1300**	--	--	**0.32**	**0.36**	--	--	--	--
1,2-Dichloroethane (EDC)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		0.2 U	--	0.2 U	--	0.2 U	--	0.2 U	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l	**5**	1 U	1 U	**1.4**	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform (Tribromomethane)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	ug/l	**100**	**0.64**	**0.67 J**	**10**	**6.7**	0.2 U	**0.69**	0.2 U	**0.6**
Chloroethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	ug/l		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cis-1,3-Dichloropropene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	ug/l		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,3-Dichloropropene	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene (TCE)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane (CFC-11)	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	ug/l		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 6-9

Soil Vapor Chemical Analytical Results and Data Statistics

R.G. Haley Site

Bellingham, Washington

Analyte[1] (Results in µg/m3)	CASRN	MTCA Method B Shallow Soil Vapor Screening Level	HS-SV-1	HS-SV-2	HS-SV-3	HS-SV-4	HS-SV-5	HS-SV-6	HS-SV-7	HS-SV-8	Soil Vapor Sample Data Statistics	
											Maximum Detected Concentration (µg/m3)	Exceedance Factor (EF)
C5 to C8 Aliphatic Hydrocarbons	--	27,000	1,000	780,000	1,600,000	230	920,000	450,000	1,100,000	210,000	1,600,000	59
C9 to C12 Aliphatic Hydrocarbons	--	1,400	1,100	260,000	760,000	230	620,000	980,000	470,000	55,000	980,000	700
C9 to C10 Aromatic Hydrocarbons	--	1,800	150	11,000	130,000	40 U	110,000	180,000	53,000	1,600	180,000	100
Benzene	71-43-2	3.2	3.1	22	97	3	210	65	130	49	210	66
Ethylbenzene	100-41-4	4,600	3.3	93	8,200 J	8.3	1,700	1,200	630	76	8,200	2
Toluene	108-88-3	22,000	37	85	110	34	140	110	230	52	230	<1
m- and p-Xylenes	108-38-3 106-42-3	460	12	510	350	18	4,100	980	9,500 J	140	9,500	21
o-Xylenes	95-47-6	460	4.4	140	190	6.9	3,300 J	270	5,400 J	83	5,400	12
2-Methylnaphthalene	91-57-6	--	15	100 U	250 U	10 U	1,600 J	1,500 J	120	100 U	1,600	--
Naphthalene	91-20-3	14	10	100 U	1,700	14	11,000 J	26,000 J	850	410	26,000	1,857
1,3-Butadiene	106-99-0	0.8	2.0 U	20 U	50 U	2.0 U	20 U	20 U	20 U	20 U	Not Detected	--
Methyl tert-butyl ether	86-30-6	96	2.0 U	20 U	50 U	2.0 U	20 U	20 U	20 U	20 U	Not Detected	--

Notes:

The soil vapor sample analytical data were evaluated in accordance with Ecology's October 2009 review draft "Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action."

[1]Soil vapor samples analyzed using the Massachusetts Department of Environmental Protection Method for the Determination of Air-Phase Petroleum Hydrocarbons.

-- = not available

J = Estimated. Value exceeds upper range of calibration

U = Not detected

CASRN = Chemical abstracts service registry number

Highlighted values indicate detected concentrations exceeding the MTCA Method B shallow soil vapor screening levels.

Table 6-10

Surface Sediment Investigation Analytical Data

R.G. Haley Site

Bellingham, Washington

Analyte	Units	Location ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1	RI-2	RI-3	RI-4	RI-5
		Sample ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1-0-0.33	RI-2-0-0.33	RI-3-0-0.33	RI-4-0-0.33	RI-5-0-0.33
		Sample Date		6/7/2002	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	7/29/2004	7/29/2004	7/29/2004	7/29/2004	7/30/2004
		Sample Depth (feet)		0-0.39	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.33	0-0.33	0-0.33	0-0.33	0-0.33
		SCO/LAET[1]	CSL/2LAET[1]												
Conventional Parameters															
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	3.7	0.5 J	1	3.4	4
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	466	18.7	328	1,610	1,830
Total solids	Percent	NA	NA	45	81	90	87	69.2	15	28	63.8	28.7	76.8	68	78.8
Total organic carbon	Percent	NE	NE	2.4	0.46	1.03	0.48	4.62	35.2	30.2	3.86	35.3	2.36	4.56	2.06
Petroleum Hydrocarbons (Dry Weight)															
Diesel-range hydrocarbons	mg/kg	NE	NE	–	150 J	3,200	490	42	9,300	37,000	–	–	–	–	–
Oil-range hydrocarbons	mg/kg	NE	NE	–	1,600	160	9,700	330	27,000	13,000	–	–	–	–	–
Total petroleum hydrocarbons	mg/kg	260	NE	–	1,750 J	3,360	10,190	372	36,300	50,000	–	–	–	–	–
Dioxin/Furans (Dry Weight)															
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	3,803	–	–	6,575	1,717
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	406	–	–	1,027	332
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	21	–	–	60	19
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	22	–	–	43	11
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	39	–	–	125	24
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	105	–	–	255	67
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	11	–	–	28	6.6
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	84	–	–	152	31
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	13	–	–	50	8.3
1,2,3,7,8-PeCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	17	–	–	19	5.9
1,2,3,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	8	–	–	26	4.6
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	20	–	–	47	13
2,3,4,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	8.1	–	–	24	4.1
2,3,7,8-TCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	4.5	–	–	3.3	1 U
2,3,7,8-TCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	6.3 C	–	–	8.9 C	3.5 C
OCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	56,489 E	–	–	71,808 E	21,252 E
OCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	2,578	–	–	6,037	1,937
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	–	–	–	–	–	–	–	114	–	–	201	41
Dioxin/Furan TEQ (ND=1/2 DL)	ng/kg	4	15	–	–	–	–	–	–	–	NA	–	–	NA	52
LPAH (OC Normalized)															
2-Methylnaphthalene	mg/kg OC	38	64	–	–	–	–	–	–	–	0.83	0.12	1.48	2.17	2.57
Acenaphthene	mg/kg OC	16	57	–	0.87 J	708.74	2.5	45.46	0.22	36.42	0.65	0.082	1.23	1.23	1.51
Acenaphthylene	mg/kg OC	66	66	–	1.17 J	14.56 U	1.15 J	23.81	0.85	13.58 U	3.11	0.091	1.31	2.63	7.77
Anthracene	mg/kg OC	220	1,200	–	1.59 J	50.49	1.08	147.19	0.77	8.94	3.11	0.18	2.75	4.39	6.80
Fluorene	mg/kg OC	23	79	–	0.85 J	242.72	1.58 U	62.77	0.40	14.24	1.53	0.12	1.65	2.63	3.98
Naphthalene	mg/kg OC	99	170	–	1.13 J	155.34 U	1.06 J	4.76	3.13	3.64	1.11	0.34	1.91	2.41	4.22
Phenanthrene	mg/kg OC	100	480	–	6.09	145.63	2.29	389.61	3.13	139.07	12.18	0.71	9.75	14.04	30.10
Total LPAH	mg/kg OC	370	780	–	11.70 J	1,147.57	8.08 J	673.59	8.49	202.32	21.68	1.52	18.60	27.33	54.37

Analyte	Units	Location ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1	RI-2	RI-3	RI-4	RI-5
		Sample ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1-0-0.33	RI-2-0-0.33	RI-3-0-0.33	RI-4-0-0.33	RI-5-0-0.33
		Sample Date		6/7/2002	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	7/29/2004	7/29/2004	7/29/2004	7/29/2004	7/30/2004
		Sample Depth (feet)		0-0.39	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.33	0-0.33	0-0.33	0-0.33	0-0.33
		SCO/LAET[1]	CSL/2LAET[1]												
HPAH (OC Normalized)															
Benzo(a)anthracene	mg/kg OC	110	270	–	5.00	126.21	1.56 J	216.45	1.11	1.92	9.85	0.68	7.20	9.65	16.99
Benzo(a)pyrene	mg/kg OC	99	210	–	6.30	106.80	2.50	196.97	1.14	1.33 J	10.88	0.85	8.48	10.75	20.87
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	–	9.57	157.28	3.75	261.91	1.73	1.82 J	17.10	1.25	11.86	16.01	30.58
Benzo(ghi)perylene	mg/kg OC	31	78	–	6.74	63.11	3.75	129.87	0.94	1.19 J	9.07	0.71	8.05	8.55	16.02
Chrysene	mg/kg OC	110	460	–	6.09	126.21	2.50	238.10	1.34	1.72	12.18	0.79	8.90	11.40	22.82
Dibenzo(a,h)anthracene	mg/kg OC	12	33	–	1.26 J	16.51	1.58 U	28.14	0.60 U	1.62 U	1.79	0.25 U	2.16 U	1.62	2.77
Fluoranthene	mg/kg OC	160	1,200	–	9.78	378.64	3.54	497.84	3.13	5.3	18.39	0.91	9.32	14.91	33.98
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	–	5.00	66.02	2.71	114.72	0.77	0.89 J	8.81	0.62	6.36	7.68	15.05
Pyrene	mg/kg OC	1,000	1,400	–	8.70	155.34	2.92	476.19	3.41	8.61	31.09	1.76	19.92	28.51	63.11
Total HPAH	mg/kg OC	960	5,300	–	58.44 J	1,196.12	23.23 J	2,160.17	13.55	22.78 J	119.15	7.56	80.09	109.08	222.18
LPAH (Dry Weight)															
1-Methylnaphthalene	µg/kg	NE	NE	–	12	150 U	9.5	170	140	4,700	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	–	–	–	–	–	–	–	32	41	35	99	53
Acenaphthene	µg/kg	500	500	–	4 J	7,300	12	2,100	77	11,000	25	29	29	56	31
Acenaphthylene	µg/kg	1,300	1,300	–	5.4 J	150 U	5.5 J	1,100	300	4,100 U	120	32	31	120	160
Anthracene	µg/kg	960	960	–	7.3 J	520	5.2	6,800	270	2,700	120	64	65	200	140
Fluorene	µg/kg	540	540	–	3.9 J	2,500	7.6 U	2,900	140	4,300	59	41	39	120	82
Naphthalene	µg/kg	2,100	2,100	–	5.2 J	1,600 U	5.1 J	220	1,100	1,100	43	120	45	110	87
Phenanthrene	µg/kg	1,500	1,500	–	28	1,500	11	18,000	1,100	42,000	470	250	230	640	620
Total LPAH	µg/kg	5,200	5,200	–	53.8 J	11,820	38.8 J	31,120	2,987	61,100	837	536	439	1,246	1,120
HPAH (Dry Weight)															
Benzo(a)anthracene	µg/kg	1,300	1,600	–	23	1,300	7.5 J	10,000	390	580	380	240	170	440	350
Benzo(a)pyrene	µg/kg	1,600	3,000	–	29	1,100	12	9,100	400	400 J	420	300	200	490	430
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	–	44	1,620	18	12,100	610	550 J	660	440	280	730	630
Benzo(ghi)perylene	µg/kg	670	720	–	31	650	18	6,000	330	360 J	350	250	190	390	330
Chrysene	µg/kg	1,400	2,800	–	28	1,300	12	11,000	470	520	470	280	210	520	470
Dibenzo(a,h)anthracene	µg/kg	230	540	–	5.8 J	170	7.6 U	1,300	210 U	490 U	69	88 U	51 U	74	57
Fluoranthene	µg/kg	1,700	2,500	–	45	3,900	17	23,000	1,100	1,600	710	320	220	680	700
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	–	23	680	13	5,300	270	270 J	340	220	150	350	310
Pyrene	µg/kg	2,600	3,300	–	40	1,600	14	22,000	1,200	2,600	1,200	620	470	1,300	1,300
Total HPAH	µg/kg	12,000	17,000	–	268.8 J	12,320	111.5 J	99,800	4,770	6,880 J	4,599	2,670	1,890	4,974	4,577
cPAH (Dry Weight)															
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86		38.86 T	1,490 T	16.73 T	12,080 T	542.2 T	569.7 T	569.6 T	397.2 T	264.65 T	654.6 T	569.4 T
Chlorinated Organics (OC Normalized)															
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	0.62	0.25 U	2.16 U	1.12 U	2.48 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U

Analyte	Units	Location ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1	RI-2	RI-3	RI-4	RI-5
		Sample ID		AN-SS-29	PS-2	PS-4	PS-7	PS-13	PS-16	PS-20	RI-1-0-0.33	RI-2-0-0.33	RI-3-0-0.33	RI-4-0-0.33	RI-5-0-0.33
		Sample Date		6/7/2002	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	9/19/2003	7/29/2004	7/29/2004	7/29/2004	7/29/2004	7/30/2004
		Sample Depth (feet)		0-0.39	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.33	0-0.33	0-0.33	0-0.33	0-0.33
		SCO/LAET[1]	CSL/2LAET[1]												
Chlorinated Organics (Dry Weight)															
1,2,4-Trichlorobenzene	µg/kg	31	51	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
1,2-Dichlorobenzene	µg/kg	35	50	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
1,3-Dichlorobenzene	µg/kg	NE	NE	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
1,4-Dichlorobenzene	µg/kg	110	120	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	24	88 U	51 U	51 U	51 U
Hexachlorobenzene	µg/kg	22	70	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
Phthalates (OC Normalized)															
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	–	14.78 J	32.04 J	4.58 J	69.26 U	11.93 U	0.70 J	12.44	0.19	19.49	8.33	13.59
Butylbenzy phthalate	mg/kg OC	4.9	64	–	2.17	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	7.51	0.25 U	2.16 U	1.12 U	2.48 U
Dibutylphthalate	mg/kg OC	220	1,700	–	1.67 U	14.56 U	0.79 J	3.46 U	0.60 U	1.62 U	0.73	0.25 U	2.16 U	0.55	2.48 U
Diethylphthalate	mg/kg OC	61	110	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U
Dimethylphthalate	mg/kg OC	53	53	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	10.36	0.25 U	2.16 U	0.40	2.48 U
Di-n-octylphthalate	mg/kg OC	58	4,500	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	0.25 U	0.25 U	2.16 U	1.12 U	2.48 U
Phthalates (Dry Weight)															
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	–	68 J	330 J	22 J	3,200 U	4,200 U	210 J	480	66	460	380	280
Butylbenzylphthalate	µg/kg	63	900	–	10	150 U	7.6 U	160 U	210 U	490 U	290	88 U	51 U	51 U	51 U
Dibutylphthalate	µg/kg	1,400	1,400	–	7.7 U	150 U	3.8 J	160 U	210 U	490 U	28	88 U	51 U	25	51 U
Diethylphthalate	µg/kg	200	>200	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
Dimethylphthalate	µg/kg	71	160	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	400	88 U	51 U	18	51 U
Di-n-octylphthalate	µg/kg	6,200	6,200	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	9.5 U	88 U	51 U	51 U	51 U
Miscellaneous Extractables (OC Normalized)															
Dibenzofuran	mg/kg OC	15	58	–	0.52 J	281.55	0.85 J	11.69	0.26	11.26	0.65	0.088	0.81	0.97	1.65
Hexachlorobutadiene	mg/kg OC	3.9	6.2	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	1.62 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	–	1.67 U	14.56 U	1.58 U	3.46 U	0.60 U	8.28 U	1.30 U	0.25 U	2.16 U	1.12 U	2.48 U
Miscellaneous Extractables (Dry Weight)															
Dibenzofuran	µg/kg	540	700	–	2.4 J	2,900	4.1 J	540	92	3,400	25	31	19	44	34
Hexachlorobutadiene	µg/kg	11	120	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
n-Nitrosodiphenylamine	µg/kg	28	40	–	7.7 U	150 U	7.6 U	160 U	210 U	2,500 U	50 U	88 U	51 U	51 U	51 U
Benzoic Acid	µg/kg	650	650	–	160 U	3,000 U	160 U	3,200 U	4,200 U	9,700 U	1,000 U	1,800 U	1,100 U	1,100 U	1,100 U
Benzyl Alcohol	µg/kg	57	73	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	29 U	88 U	51 U	51 U	51 U
Phenol (Dry Weight)															
2,4-Dimethylphenol	µg/kg	29	29	–	39 U	150 U	38 U	800 U	1,100 U	2,500 U	44 U	440 U	260 U	260 U	260 U
o-Cresol (2-methylphenol)	µg/kg	63	63	–	7.7 U	150 U	7.6 U	160 U	210 U	2,500 U	50 U	88 U	51 U	51 U	51 U
p-Cresol (4-methylphenol)	µg/kg	670	670	–	7.7 U	150 U	7.6 U	160 U	110	490 U	23 U	88 U	51 U	51 U	51 U
Pentachlorophenol	µg/kg	100	690	–	26 J	3,200	100	800 U	1,100 U	4,700	160	180	510 U	240	55
Phenol	µg/kg	420	1,200	–	7.7 U	150 U	23 U	160 U	470	490 U	15 U	270 U	160 U	160 U	160 U
Metals															
Mercury	mg/kg	0.41	0.59	–	–	–	–	–	–	–	0.45 N	–	–	0.27 N	0.19 N
Non-SMS SVOCs															
Hexachloroethane	µg/kg	–	–	–	7.7 U	150 U	7.6 U	160 U	210 U	490 U	50 U	88 U	51 U	51 U	51 U
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample Date		9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	8/26/2008	8/26/2008	8/26/2008	8/22/2008	8/22/2008	8/3/2012	8/3/2012
		Sample Depth (feet)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]												
Conventional Parameters															
Ammonia	mg/kg	NE	NE	–	–	–	–	–	3.39	5.01	6.34	16.6 J	16.9 J	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	1420	1,190	503	1,960	2,680	–	–
Total solids	Percent	NA	NA	–	–	–	–	–	79.3	80.3	64.5	34.8	37.6	37.3	39.4
Total organic carbon	Percent	NE	NE	0.78	4.26	6.9	3.07	2.68	4.13	2.38	2.2	3.06	2.98	2.8	2.9
Petroleum Hydrocarbons (Dry Weight)															
Diesel-range hydrocarbons	mg/kg	NE	NE	–	–	–	–	–	19	12	17	–	–	21 U	20 U
Oil-range hydrocarbons	mg/kg	NE	NE	–	–	–	–	–	69	42	63	–	–	84	70
Total petroleum hydrocarbons	mg/kg	260	NE	–	–	–	–	–	88	54	80	–	–	84	70
Dioxin/Furans (Dry Weight)															
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	–	–	–	–	–	2,900 E	3,000 E	4,500 E	–	–	1,800	2,280
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	–	–	–	–	–	590	390	730	–	–	261	350
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	–	–	–	–	–	33	23	42	–	–	20	26
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	17	230	74	–	–	20	23
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	41	35	60	–	–	22 J	28 J
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	120	85	170	–	–	67	88
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	11	9.1	16	–	–	7.4 J	9.3 J
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	–	–	–	–	–	46	190	66	–	–	30	36
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	–	–	–	–	–	1.5	2.3	1.7	–	–	7.6 J	10 J
1,2,3,7,8-PeCDD	ng/kg	NE	NE	–	–	–	–	–	8.5	42	22	–	–	9.6	12
1,2,3,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	6.8	8.5	8.9	–	–	4.2 J	5.0
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	6.6	5	11	–	–	13 J	16 J
2,3,4,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	7.1	5.8	10	–	–	5	5.8
2,3,7,8-TCDD	ng/kg	NE	NE	–	–	–	–	–	1.9	28	6	–	–	1.7	1.5
2,3,7,8-TCDF	ng/kg	NE	NE	–	–	–	–	–	3.2	3.3	3.7	–	–	13	13
OCDD	ng/kg	NE	NE	–	–	–	–	–	24,000 E	21,000 E	39,000 E	–	–	16,400 J	21,400
OCDF	ng/kg	NE	NE	–	–	–	–	–	2,300	1,400	3,100 E	–	–	936	1,310
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	–	–	–	–	–	80	169	137	–	–	57	70
Dioxin/Furan TEQ (ND=1/2 DL)	ng/kg	4	15	–	–	–	–	–	NA	NA	NA	–	–	NA	NA
LPAH (OC Normalized)															
2-Methylnaphthalene	mg/kg OC	38	64	7.56 U	1.36 U	1.12	1.95 U	2.20 U	0.36	1.18	1.14	0.65 U	0.67 U	2.25 U	1.79 U
Acenaphthene	mg/kg OC	16	57	7.56 U	1.36 U	0.96	1.95 U	2.20 U	0.24	0.42	0.77	0.65 U	0.67 U	2.25 U	1.79 U
Acenaphthylene	mg/kg OC	66	66	7.56 U	1.36 U	1.45	1.95 U	2.20 U	0.24	0.80 U	0.96	0.65 U	0.67 U	2.25 U	1.79 U
Anthracene	mg/kg OC	220	1,200	11.15	2.58	3.48	1.95 U	2.20 U	0.56	0.92	2.14	0.69	2.01	2.21	2.24
Fluorene	mg/kg OC	23	79	7.56 U	1.36 U	0.89	1.95 U	2.20 U	0.46 U	0.5	1.05	0.65 U	0.87	2.25 U	1.79 U
Naphthalene	mg/kg OC	99	170	7.56 U	1.93	1.88	1.95 U	2.20 U	0.36	0.80 U	1.14	0.65 U	0.77	2.25 U	1.79 U
Phenanthrene	mg/kg OC	100	480	39.74	7.98	11.45	4.56	5.97	2.42	5.04	8.64	1.86	4.36	4.29	4.48
Total LPAH	mg/kg OC	370	780	50.9	12.49	20.1	4.56	5.97	3.82	6.89	14.68	2.55	8.02	6.50	6.72

Analyte	Units	Location ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample Date		9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	8/26/2008	8/26/2008	8/26/2008	8/22/2008	8/22/2008	8/3/2012	8/3/2012
		Sample Depth (feet)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]												
HPAH (OC Normalized)															
Benzo(a)anthracene	mg/kg OC	110	270	33.33	5.16	8.41	4.24	3.40	1.33	2.4	6.36	1.83	5.37	5.71	5.52
Benzo(a)pyrene	mg/kg OC	99	210	32.05	6.34	9.28	4.56	3.10	1.53	3.3	8.18	1.50	3.36	5.00	5.86
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	51.28	12.44	17.83	9.77	8.13	3.15	5.71	15.91	3.89	9.06	8.57	8.28
Benzo(ghi)perylene	mg/kg OC	31	78	12.82	1.69	2.17	1.95 U	2.20 U	0.8	1.09	2.32	0.65 U	0.67	3.43	4.14
Chrysene	mg/kg OC	110	460	35.9	7.04	9.71	5.86	5.97	2.08	3.15	9.55	2.94	23.15	6.07	6.21
Dibenzo(a,h)anthracene	mg/kg OC	12	33	7.56 U	1.36 U	0.86	1.95 U	2.20 U	0.46 U	0.80 U	0.46	0.78	0.94 J	4.64 U	3.45 U
Fluoranthene	mg/kg OC	160	1,200	62.82	12.21	18.84	8.47	10.82	4.36	6.3	15.91	3.27	9.40	9.64	9.31
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	11.8	1.64	2.32	1.95 U	2.20 U	0.68	1.01	2.05	0.65 U	0.81	2.86	3.35
Pyrene	mg/kg OC	1,000	1,400	53.85	11.03	14.35	7.49	7.09	3.87	5.46	13.64	2.45	6.71	10.71	10.00
Total HPAH	mg/kg OC	960	5,300	293.85	57.56	83.75	40.39	38.51	17.8	28.45	74.36	16.67	59.46 J	52.00	52.66
LPAH (Dry Weight)															
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	15	26	25	20 U	20 U	–	–
2-Methylnaphthalene	µg/kg	670	670	59 U	58 U	77	60 U	59 U	15	28	25	20 U	20 U	63 U	52 U
Acenaphthene	µg/kg	500	500	59 U	58 U	66	60 U	59 U	10	10	17	20 U	20 U	63 U	52 U
Acenaphthylene	µg/kg	1,300	1,300	59 U	58 U	100	60 U	59 U	9.9	19 U	21	20 U	20 U	63 U	52 U
Anthracene	µg/kg	960	960	87	110	240	60 U	59 U	23	22	47	21	60	62 J	65
Fluorene	µg/kg	540	540	59 U	58 U	61	60 U	59 U	19 U	12	23	20 U	26	63 U	52 U
Naphthalene	µg/kg	2,100	2,100	59 U	82	130	60 U	59 U	15	19 U	25	20 U	23	63 U	52 U
Phenanthrene	µg/kg	1,500	1,500	310	340	790	140	160	100	120	190	57	130	120	130
Total LPAH	µg/kg	5,200	5,200	397	532	1,387	140	160	157.9	164	323	78	239	182	195
HPAH (Dry Weight)															
Benzo(a)anthracene	µg/kg	1,300	1,600	260	220	580	130	91	55	57	140	56	160	160	160
Benzo(a)pyrene	µg/kg	1,600	3,000	250	270	640	140	83	63	79	180	46	100	140	170
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	400	530	1,230	300	218	130	136	350	119	270	240 J	240
Benzo(ghi)perylene	µg/kg	670	720	100	72	150	60 U	59 U	33	26	51	20 U	20	96 J	120
Chrysene	µg/kg	1,400	2,800	280	300	670	180	160	86	75	210	90	690	170	180
Dibenzo(a,h)anthracene	µg/kg	230	540	59 U	58 U	59	60 U	59 U	19 U	19 U	10	24	28 J	130 U	100 U
Fluoranthene	µg/kg	1,700	2,500	490	520	1,300	260	290	180	150	350	100	280	270	270
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	92	70	160	60 U	59 U	28	24	45	20 U	24	80 J	97 J
Pyrene	µg/kg	2,600	3,300	420	470	990	230	190	160	130	300	75	200	300	290
Total HPAH	µg/kg	12,000	17,000	2,292	2,452	5,779	1,240	1,032	735	677	1,636	510	1,772 J	1,456	1,527
cPAH (Dry Weight)															
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	330.95 T	357.9 T	849.6 T	190.8 T	121.4 T	67.8 T	86.11 T	102.4 T	236.6 T	155.1 T	196.2 T	226.5 T
Chlorinated Organics (OC Normalized)															
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.20 U	0.21 U	0.12 U	0.11 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.20 U	0.21 U	0.12 U	0.11 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–	–	0.12 U	0.11 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.65 U	0.67 U	0.12 U	0.11 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.20 U	0.21 U	0.16 U	0.15 U

Analyte	Units	Location ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample ID		SRI-1	SRI-2	SRI-3	SRI-4	SRI-5	RGH-SS-01	RGH-SS-02	RGH-SS-03	6B-03-SS	6B-04-SS	COB-SS-01	COB-SS-02
		Sample Date		9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	8/26/2008	8/26/2008	8/26/2008	8/22/2008	8/22/2008	8/3/2012	8/3/2012
		Sample Depth (feet)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]												
Chlorinated Organics (Dry Weight)										0.798 U					
1,2,4-Trichlorobenzene	µg/kg	31	51	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 U	6.1 U	3.4 U	3.1 U
1,2-Dichlorobenzene	µg/kg	35	50	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 U	6.1 U	3.4 U	3.1 U
1,3-Dichlorobenzene	µg/kg	NE	NE	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	3.4 U	3.1 U
1,4-Dichlorobenzene	µg/kg	110	120	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	3.4 U	3.1 U
Hexachlorobenzene	µg/kg	22	70	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 U	6.1 U	4.4 U	4.2 U
Phthalates (OC Normalized)															
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**15.39**	**6.1**	**6.52**	**4.89**	**4.10**	**3.39**	**1.05**	**3.91**	0.65 U	**1.14**	**7.50**	**6.21**
Butylbenzy phthalate	mg/kg OC	4.9	64	**11.8**	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.49 U	**0.54**	0.54 U	0.41 U
Dibutylphthalate	mg/kg OC	220	1,700	**9.36**	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.65 U	0.67 U	2.18 U	1.79 U
Diethylphthalate	mg/kg OC	61	110	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.65 U	0.67 U	2.25 U	1.79 U
Dimethylphthalate	mg/kg OC	53	53	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.65 U	0.67 U	2.25 U	1.79 U
Di-n-octylphthalate	mg/kg OC	58	4,500	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.65 U	0.67 U	8.93 U	7.24 U
Phthalates (Dry Weight)															
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**120**	**260**	**450**	**150**	**110**	**140**	**25**	**86**	20 U	**34**	**210**	**180**
Butylbenzylphthalate	µg/kg	63	900	**92**	58 U	59 U	60 U	59 U	19 U	19 U	19 U	15 U	**16**	15 UJ	12 UJ
Dibutylphthalate	µg/kg	1,400	1,400	**73**	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	61 U	52 U
Diethylphthalate	µg/kg	200	>200	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	63 U	52 U
Dimethylphthalate	µg/kg	71	160	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	63 U	52 U
Di-n-octylphthalate	µg/kg	6,200	6,200	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 U	20 U	250 U	210 U
Miscellaneous Extractables (OC Normalized)															
Dibenzofuran	mg/kg OC	15	58	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	**0.64**	0.65 U	**0.71**	2.25 U	1.79 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	–	–	0.16 U	0.15 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	7.56 U	1.36 U	0.86 U	1.95 U	2.20 U	0.46 U	0.80 U	0.86 U	0.20 U	0.23 U	0.16 U	0.15 U
Miscellaneous Extractables (Dry Weight)															
Dibenzofuran	µg/kg	540	700	59 U	58 U	59 U	60 U	59 U	19 U	19 U	**14**	20 U	**21**	63 U	52 U
Hexachlorobutadiene	µg/kg	11	120	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	–	–	4.4 U	4.2 U
n-Nitrosodiphenylamine	µg/kg	28	40	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 U	6.7 U	4.4 UJ	4.2 UJ
Benzoic Acid	µg/kg	650	650	590 U	580 U	590 U	600 U	590 U	190 U	190 U	190 U	200 UJ	200 UJ	630 UJ	550 UJ
Benzyl Alcohol	µg/kg	57	73	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	20 UJ	20 UJ	130 U	100 U
Phenol (Dry Weight)															
2,4-Dimethylphenol	µg/kg	29	29	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 UJ	6.1 UJ	4.4 UJ	4.2 UJ
o-Cresol (2-methylphenol)	µg/kg	63	63	59 U	58 U	59 U	60 U	59 U	19 U	19 U	19 U	6.1 U	6.1 U	4.4 U	4.2 U
p-Cresol (4-methylphenol)	µg/kg	670	670	59 U	58 U	59 U	60 U	59 U	19 U	19 U	**29**	20 U	**24**	63 U	52 U
Pentachlorophenol	µg/kg	100	690	300 U	290 U	**560**	300 U	300 U	**83**	**51**	**180**	**56**	**86**	**500 J**	**460**
Phenol	µg/kg	420	1,200	59 U	58 U	59 U	60 U	59 U	**30**	**32**	19 U	20 U	20 U	63 U	52 U
Metals															
Mercury	mg/kg	0.41	0.59	–	–	–	–	–	**0.1**	**0.05**	**0.13**	**0.3**	**0.31**	**0.317**	**0.313**
Non-SMS SVOCs															
Hexachloroethane	µg/kg	–	–	–	–	–	–	–	19 U	19 U	19 U	20 U	20 U	–	–
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		COB-SS-03		COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample ID		COB-SS-03	COB-SS-11[2]	COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample Date		8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/4/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]							
Conventional Parameters										
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	37.4	37.3	41.9	52.3	–	–	–
Total organic carbon	Percent	NE	NE	2.8	3.2	8.7	4.4	2.17	2.9	3.73
Petroleum Hydrocarbons (Dry Weight)										
Diesel-range hydrocarbons	mg/kg	NE	NE	20 U	21 U	19 U	15 U	–	–	–
Oil-range hydrocarbons	mg/kg	NE	NE	91	83	260	130	–	–	–
Total petroleum hydrocarbons	mg/kg	260	NE	91	83	260	130	–	–	–
Dioxin/Furans (Dry Weight)										
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	2,510	2,560	1,540	2,710	745	918	1,930
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	432	463	282	519	131	147	345
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	30	31	19	34	8.5	9.4	24
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	23	24	18	27	6.1	12	22
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	29 J	31 J	23 J	39	7.8 U	11 U	29
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	90	93	70	116	27	37	82
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	9.9 J	10 J	8.1 J	14	2.8 U	3.9 U	9.6
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	34	34	26	45	16	18	31
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	10 J	9.8 J	7.1 J	11	2.9 J	4.2 J	8.4
1,2,3,7,8-PeCDD	ng/kg	NE	NE	10	13	10	14	4.4 J	5.2	8.6
1,2,3,7,8-PeCDF	ng/kg	NE	NE	5.4	5.4 J	6.4 U	8.3 U	2.3 U	2.7 U	5.2
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	18 J	18 J	15 J	25	5.3 U	6.7 U	16
2,3,4,7,8-PeCDF	ng/kg	NE	NE	6.3	6.2	6.7	9	2.3 J	2.7 J	5.7
2,3,7,8-TCDD	ng/kg	NE	NE	1.6	2.3	2.4	2.1 U	0.6 U	0.7 U	1.4 U
2,3,7,8-TCDF	ng/kg	NE	NE	12	13	17	9.5	11	12	11
OCDD	ng/kg	NE	NE	22,000	25,100	12,300 J	24,100 J	6,640	9,490	16,400 J
OCDF	ng/kg	NE	NE	1,920	2,250 J	1,230	2,250	610	518	1,530
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	73	79	56	86	22	28	60
Dioxin/Furan TEQ (ND=1/2 DL)	ng/kg	4	15	NA	NA	56	87	24	30	60
LPAH (OC Normalized)										
2-Methylnaphthalene	mg/kg OC	38	64	1.29	1.88 U	1.95	9.77	–	–	–
Acenaphthene	mg/kg OC	16	57	2.32 U	1.88 U	1.15	4.55	–	–	–
Acenaphthylene	mg/kg OC	66	66	1.32	1.88 U	5.17	20.45	–	–	–
Anthracene	mg/kg OC	220	1,200	2.25	1.88 U	5.52	18.18	–	–	–
Fluorene	mg/kg OC	23	79	2.32 U	1.88 U	3.68	15.91	–	–	–
Naphthalene	mg/kg OC	99	170	1.71	1.88 U	8.97	38.64	–	–	–
Phenanthrene	mg/kg OC	100	480	3.57	2.47	33.33	143.18	–	–	–
Total LPAH	mg/kg OC	370	780	10.14	2.47	59.77	250.68	–	–	–

Analyte	Units	Location ID		COB-SS-03		COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample ID		COB-SS-03	COB-SS-11[2]	COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample Date		8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/4/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]							
HPAH (OC Normalized)										
Benzo(a)anthracene	mg/kg OC	110	270	**5.00**	**3.13**	**16.09**	**47.73**	–	–	–
Benzo(a)pyrene	mg/kg OC	99	210	4.64 U	3.75 U	**21.84**	**61.36**	–	–	–
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	**8.93**	7.50 U	**29.89**	**86.36**	–	–	–
Benzo(ghi)perylene	mg/kg OC	31	78	4.64 U	3.75 U	**13.79**	**38.64**	–	–	–
Chrysene	mg/kg OC	110	460	**6.43**	**4.38**	**17.24**	**65.91**	–	–	–
Dibenzo(a,h)anthracene	mg/kg OC	12	33	4.64 U	3.75 U	**2.87**	**7.95**	–	–	–
Fluoranthene	mg/kg OC	160	1,200	**8.57**	**5.94**	**41.38**	**150.0**	–	–	–
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	4.64 U	3.75 U	**11.15**	**31.82**	–	–	–
Pyrene	mg/kg OC	1,000	1,400	**8.93**	**6.25**	**39.08**	**143.18**	–	–	–
Total HPAH	mg/kg OC	960	5,300	**37.86**	**19.69**	**193.33**	**632.95**	–	–	–
LPAH (Dry Weight)										
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	**36 J**	60 U	**170**	**430**	–	–	–
Acenaphthene	µg/kg	500	500	65 U	60 U	**100**	**200**	–	–	–
Acenaphthylene	µg/kg	1,300	1,300	**37 J**	60 U	**450**	**900**	–	–	–
Anthracene	µg/kg	960	960	**63 J**	60 U	**480**	**800**	–	–	–
Fluorene	µg/kg	540	540	65 U	60 U	**320**	**700**	–	–	–
Naphthalene	µg/kg	2,100	2,100	**48 J**	60 U	**780**	**1,700**	–	–	–
Phenanthrene	µg/kg	1,500	1,500	**100**	**79**	**2,900**	**6,300**	–	–	–
Total LPAH	µg/kg	5,200	5,200	**284**	**79**	**5,200**	**11,030**	–	–	–
HPAH (Dry Weight)										
Benzo(a)anthracene	µg/kg	1,300	1,600	**140**	**100**	**1,400**	**2,100**	–	–	–
Benzo(a)pyrene	µg/kg	1,600	3,000	130 U	120 U	**1,900**	**2,700**	–	–	–
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	**250 J**	240 U	**2,600**	**3,800**	–	–	–
Benzo(ghi)perylene	µg/kg	670	720	130 U	120 U	**1,200**	**1,700**	–	–	–
Chrysene	µg/kg	1,400	2,800	**180**	**140**	**1,500**	**2,900**	–	–	–
Dibenzo(a,h)anthracene	µg/kg	230	540	130 U	120 U	**250**	**350**	–	–	–
Fluoranthene	µg/kg	1,700	2,500	**240**	**190**	**3,600**	**6,600**	–	–	–
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	130 U	120 U	**970**	**1,400**	–	–	–
Pyrene	µg/kg	2,600	3,300	**250**	**200**	**3,400**	**6,300**	–	–	–
Total HPAH	µg/kg	12,000	17,000	**1,060**	**630**	**16,820**	**27,850**	–	–	–
cPAH (Dry Weight)										
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	**118.8 T**	**95.4 T**	**2,437 T**	**3,494 T**			
Chlorinated Organics (OC Normalized)										
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.11 U	0.11 U	0.033 U	0.046 U	–	–	–
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.11 U	0.11 U	0.033 U	0.046 U	–	–	–
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.11 U	0.11 U	0.033 U	0.046 U	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.11 U	0.11 U	0.033 U	0.046 U	–	–	–
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.15 U	0.16 U	0.049 U	0.082 U	–	–	–

Analyte	Units	Location ID		COB-SS-03		COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample ID		COB-SS-03	COB-SS-11[2]	COB-SS-04	COB-SS-05	COB-SS-06	COB-SS-07	COB-SS-08
		Sample Date		8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/4/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39	0-0.39
		SCO/LAET[1]	CSL/2LAET[1]							
Chlorinated Organics (Dry Weight)										
1,2,4-Trichlorobenzene	µg/kg	31	51	3.2 U	3.4 U	2.9 U	2 U	--	--	--
1,2-Dichlorobenzene	µg/kg	35	50	3.2 U	3.4 U	2.9 U	2 U	--	--	--
1,3-Dichlorobenzene	µg/kg	NE	NE	3.2 U	3.4 U	2.9 U	2 U	--	--	--
1,4-Dichlorobenzene	µg/kg	110	120	3.2 U	3.4 U	2.9 U	2 U	--	--	--
Hexachlorobenzene	µg/kg	22	70	4.3 U	5.1 U	4.3 U	3.6 U	--	--	--
Phthalates (OC Normalized)										
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**5.71**	**4.06**	**1.38**	**5.91**	--	--	--
Butylbenzy phthalate	mg/kg OC	4.9	64	0.35 U	0.28 U	0.21 U	0.30 U	--	--	--
Dibutylphthalate	mg/kg OC	220	1,700	2.32 U	1.88 U	0.45 U	0.84 U	--	--	--
Diethylphthalate	mg/kg OC	61	110	2.32 U	1.88 U	0.45 U	**1.07**	--	--	--
Dimethylphthalate	mg/kg OC	53	53	2.32 U	1.88 U	0.45 U	0.84 U	--	--	--
Di-n-octylphthalate	mg/kg OC	58	4,500	9.29 U	7.50 U	1.84 U	3.41 U	--	--	--
Phthalates (Dry Weight)										
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**160**	**130**	**120**	**260**	--	--	--
Butylbenzylphthalate	µg/kg	63	900	9.8 UJ	8.8 U	18 UJ	13 U	--	--	--
Dibutylphthalate	µg/kg	1,400	1,400	65 U	60 U	39 U	37 U	--	--	--
Diethylphthalate	µg/kg	200	>200	65 U	60 U	39 U	**47**	--	--	--
Dimethylphthalate	µg/kg	71	160	65 U	60 U	39 U	37 U	--	--	--
Di-n-octylphthalate	µg/kg	6,200	6,200	260 U	240 U	160 U	150 U	--	--	--
Miscellaneous Extractables (OC Normalized)										
Dibenzofuran	mg/kg OC	15	58	**1.00**	1.88 U	**2.41**	**13.18**	--	--	--
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.15 U	0.16 U	0.049 U	0.082 U	--	--	--
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.15 U	0.16 U	0.049 U	0.082 U	--	--	--
Miscellaneous Extractables (Dry Weight)										
Dibenzofuran	µg/kg	540	700	**28 J**	60 U	**210**	**580**	--	--	--
Hexachlorobutadiene	µg/kg	11	120	4.3 U	5.1 U	4.3 U	3.6 U	--	--	--
n-Nitrosodiphenylamine	µg/kg	28	40	4.3 UJ	5.1 UJ	4.3 UJ	3.6 U	--	--	--
Benzoic Acid	µg/kg	650	650	340 UJ	210 UJ	340 UJ	200 U	--	--	--
Benzyl Alcohol	µg/kg	57	73	130 U	120 U	78 U	75 U	--	--	--
Phenol (Dry Weight)										
2,4-Dimethylphenol	µg/kg	29	29	4.3 UJ	5.1 UJ	**42**	**82**	--	--	--
o-Cresol (2-methylphenol)	µg/kg	63	63	4.3 U	5.1 U	**45**	**75**	--	--	--
p-Cresol (4-methylphenol)	µg/kg	670	670	**82**	60 U	**290**	**390**	--	--	--
Pentachlorophenol	µg/kg	100	690	**560**	**480**	**320**	**370**	--	--	--
Phenol	µg/kg	420	1,200	65 U	60 U	**120**	**180**	--	--	--
Metals										
Mercury	mg/kg	0.41	0.59	**0.325**	**0.344**	**0.368**	**0.286**	--	--	--
Non-SMS SVOCs										
Hexachloroethane	µg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--

Notes:

[1] The screening levels provided are the Sediment Management Standards (SMS) Sediment Cleanup Objectives (SCO) and Cleanup Screening Levels (CSL) and the Lowest Apparent Effects Threshold (LAET) and 2nd Lowest Apparent Effects Threshold (2LAET) values except for petroleum hydrocarbons, pentachlorophenol, carcinogenic PAHs and dioxins/furans. SMS criteria have not been established for petroleum hydrocarbons; the screening level is based on bioassay tests and chemical analyses performed as part of the supplemental investigation of the RG Haley Site. The screening level for pentachlorophenol is based on the practical quantitation limit to provide a conservative assessment of the potential for bioaccumulative effects. No criteria are currently available for carcinogenic PAHs and dioxins/furans; therefore natural background values were used to conservatively assess the extent of these contaminants. LAET and 2LAET values are provided for comparison to dry weight concentrations for LPAHs, HPAHs, chlorinated organics, phthalates, and miscellaneous extractables when the total organic carbon content for a specific sample is less than 0.5 percent or greater than 3.5 percent.

[2] Sample COB-SS-11 is a field duplicate of sample COB-SS-03.

Total organic carbon (TOC) concentration is less than 0.5 percent or greater than 3.5 percent. Therefore, the dry weight concentrations should be compared to the LAET and 2LAET for screening purposes.

Value is greater than SCO or LAET.

Value is greater than CSL or 2LAET.

Detection limit is greater than screening level.

Bold indicates that the analyte was detected.

mg/kg = milligrams per kilogram

mg/kg OC = milligrams per kilogram organic carbon normalized

ng/kg = nanograms per kilogram

µg/kg = micrograms per kilogram
C = Result confirmed on second confirmation column
D = The reported result is from dilution
E = Estimated result, concentration exceeds calibration range
T = Value is between the method reporting limit and the method detection limit

J = Estimated value

U = Not detected at or above identified detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

DL = Detection Limit

-- = Sample was not submitted for the identified chemical analysis

NE = A criterion has not been established for the identified analyte

ND = non-detect

NA = Not applicable

TEQ = Toxic equivalent (TEQ) concentration. The TEQ concentrations for dioxins/furan were calculated using the toxic equivalency factor (TEF) methodology relative to 2,3,7,8-tetrachloro dibenzo-p-dioxin using TEFs from the 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds (Van den Berg et al. 2006). The TEQ concentration has been provided using the sum of only the detected congener concentrations (i.e., ND=0) as well as using the sum of the detected concentrations and ½ the detection limit for dioxin and furan congeners that were not detected (i.e., ND=0.5 DL).

SMS = Sediment Management Standards

SCO = SMS Sediment Cleanup Objective (Chapter 173-204-320)

CSL = SMS Cleanup Screening Level (Chapter 173-204-520)

LAET = Lowest Apparent Effects Threshold (LAET). The LAET (expressed on a dry-weight basis) is analogous to the SMS SCO value and is used as the sediment screening level for samples when the sample-specific total organic carbon concentration is less than 0.5 percent or greater than 3.5 percent.
2LAET = 2nd Lowest Apparent Effects Threshold (2LAET). The 2LAET (expressed on a dry-weight basis) is analogous to the SMS CSL value and is used as the screening level for samples when the total organic carbon concentration is less than 0.5 percent or greater than 3.5 percent.
LPAH = Low molecular weight polycyclic aromatic hydrocarbons (PAHs)
HPAH = High molecular weight polycyclic aromatic hydrocarbons (PAHs)

Total LPAH is the sum of detected concentrations of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene and anthracene. 2-Methylnapthalene is not included in the total for LPAHs.

Total HPAH is the sum of detected concentrations of fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b+k)fluoranthenes, benzo(a)pyrene, indeno(1,2,3-c-d)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene.

The totals for LPAH and HPAH are the sum of all detected results. If no LPAHs or HPAHs were detected, the highest detection limit value is reported as the total.

Table 6-11

Subsurface Sediment Investigation Analytical Data

R.G Haley Site
Bellingham, Washington

Analyte	Units	Location ID		RI-6	RI-7	RI-8	IZ-MW-1	IZ-MW-2	IZ-MW-3	IZ-MW-4	IZ-DP-1	RGH-SC-01		
		Sample ID		RI-6-3.5-4.5	RI-7-3-4	RI-8-4.5-5.5	IZ-MW-1-4-5	IZ-MW-2-2-4	IZ-MW-3-2-4	IZ-MW-4-1-4	IZ-DP-1-3-4	RGH-SC-01-0-2	RGH-SC-01-2-4	RGH-SC-01-4-6
		Sample Date		7/30/2004	7/29/2004	7/29/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	8/26/2008	8/26/2008	8/26/2008
		Sample Depth (feet)		3.5-4.5	3-4	4.5-5.5	4-5	2-4	2-4	1-4	3-4	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]											
Conventional Parameters														
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	–	–	–	–	–	–	–	–	73.9	75.4	74.2
Total organic carbon	Percent	NE	NE	1.9	12.8	8.13	5.66	66.9	20.2	18	4.49	2.87	4.24	8.12
Petroleum Hydrocarbons (Dry Weight)														
Diesel-range hydrocarbons	mg/kg	NE	NE	–	–	–	49.3	2,020 D	2,520 D	1,120 D	811 D	37	43	220
Oil-range hydrocarbons	mg/kg	NE	NE	–	–	–	89.8	3,460 D	2,960 D	1,310 D	145	110	120	450
Total petroleum hydrocarbons	mg/kg	260	NE	–	–	–	139.1	5,480	5,480	2,430	956	147	163	670
Dioxin/Furans (Dry Weight)														
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	--	--	--	--	--	19,200	--	--	4,500	7,900 E	--
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	--	--	--	--	--	5,640	--	--	860	1,500	--
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	--	--	--	--	--	307	--	--	47	85	--
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	--	--	--	--	--	28	--	--	68	66	--
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	--	--	--	--	--	238	--	--	62	130	--
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	--	--	--	--	--	638	--	--	160	310	--
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	--	--	--	--	--	82	--	--	17	42	--
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	--	--	--	--	--	61	--	--	57	100	--
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	--	--	--	--	--	25 U	--	--	4.7	8.2	--
1,2,3,7,8-PeCDD	ng/kg	NE	NE	--	--	--	--	--	25 U	--	--	17	25	--
1,2,3,7,8-PeCDF	ng/kg	NE	NE	--	--	--	--	--	45	--	--	10	20	--
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	--	--	--	--	--	126	--	--	10	22	--
2,3,4,7,8-PeCDF	ng/kg	NE	NE	--	--	--	--	--	51	--	--	10	19	--
2,3,7,8-TCDD	ng/kg	NE	NE	--	--	--	--	--	5 U	--	--	4	3.1	--
2,3,7,8-TCDF	ng/kg	NE	NE	--	--	--	--	--	18.2	--	--	3.1 J	9.5	--
OCDD	ng/kg	NE	NE	--	--	--	--	--	191,000	--	--	40,000 E	63,000 E	--
OCDF	ng/kg	NE	NE	--	--	--	--	--	34,600	--	--	3,200	5,300	--
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	--	--	--	--	--	455	--	--	130	219	--
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	--	--	--	--	--	471	--	--	NA	NA	--
LPAH (OC Normalized)														
2-Methylnaphthalene	mg/kg OC	38	64	2.05 D	0.42 D	0.84 D	3.04	0.5	3.78 U	0.67	7.35 U	0.91	2.24	1.60
Acenaphthene	mg/kg OC	16	57	15.79 D	1.17 D	2.09 D	0.77	1.81	3.78 U	1.13	26.50	0.49	2.59	1.10
Acenaphthylene	mg/kg OC	66	66	0.95 D	0.77 D	1.48 D	1.24	0.47	3.78 U	0.71	8.24	0.73	0.61	0.16
Anthracene	mg/kg OC	220	1,200	26.32 D	3.05 D	5.90 D	3.96	3.14	5.45	1.99	11.63	1.85	7.31	3.57
Fluorene	mg/kg OC	23	79	11.58 D	1.02 D	1.85 D	2.95	1.56	3.78 U	1.31	30.07	0.56	3.77	1.48
Naphthalene	mg/kg OC	99	170	1.95 D	2.03 D	3.81 D	60.25 E	2.33	3.78 U	1.83	7.35 U	0.70	1.93	0.46
Phenanthrene	mg/kg OC	100	480	89.47 D	10.94 D	20.91 D	21.73	12.36 E	17.28	10.94	71.72	6.97	25.94	8.37
Total LPAH	mg/kg OC	370	780	146.05	18.97	36.04	93.94	22.17	22.72	17.91	148.15	11.29	42.17	15.14

Analyte	Units	Location ID		RI-6	RI-7	RI-8	IZ-MW-1	IZ-MW-2	IZ-MW-3	IZ-MW-4	IZ-DP-1	RGH-SC-01		
		Sample ID		RI-6-3.5-4.5	RI-7-3-4	RI-8-4.5-5.5	IZ-MW-1-4-5	IZ-MW-2-2-4	IZ-MW-3-2-4	IZ-MW-4-1-4	IZ-DP-1-3-4	RGH-SC-01-0-2	RGH-SC-01-2-4	RGH-SC-01-4-6
		Sample Date		7/30/2004	7/29/2004	7/29/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	8/26/2008	8/26/2008	8/26/2008
		Sample Depth (feet)		3.5-4.5	3-4	4.5-5.5	4-5	2-4	2-4	1-4	3-4	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]											
HPAH (OC Normalized)														
Benzo(a)anthracene	mg/kg OC	110	270	33.16 D	7.42 D	14.76 D	3.00	5.65	11.88	6.67	7.35 U	5.23	11.32	1.97
Benzo(a)pyrene	mg/kg OC	99	210	31.05 D	7.58 D	14.76 D	4.56	6.37	6.93	7.61	7.35 U	7.32	14.39	1.60
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	41.58	11.25	22.02	9.45	10.49	13.42	12.05	7.35 UT	14.63	24.29	3.94
Benzo(ghi)perylene	mg/kg OC	31	78	13.16 D	4.61 D	9.84 D	4.01	2.02	5.64	3.15	7.35 U	1.57	3.07	0.87
Chrysene	mg/kg OC	110	460	34.74 D	8.59 D	17.22 D	3.39	5.55	13.17	7.72	7.35 U	9.41	15.57	2.83
Dibenzo(a,h)anthracene	mg/kg OC	12	33	4.05 D	1.02 D	2.214 D	0.55	0.96	3.78 U	1.59	7.35 U	0.66	1.44	0.73 U
Fluoranthene	mg/kg OC	160	1,200	78.95 D	14.84 D	29.52 D	18.2	14.95 E	22.82	12.94	11.63	18.47	37.74	8.87
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	17.90 D	5.00 D	10.09 D	2.44	1.93	4.50	3.01	7.35 U	1.71	3.07	0.69
Pyrene	mg/kg OC	1,000	1,400	78.95 D	16.41 D	31.98 D	15.27	11.14 E	25.05	11.56	15.79	17.77	33.02	8.62
Total HPAH	mg/kg OC	960	5,300	333.53	76.72	152.4	60.87	59.05	103.41	66.30	27.42	76.76	143.89	29.40
LPAH (Dry Weight)														
1-Methylnaphthalene	µg/kg	NE	NE	--	--	--	--	--	--	--	--	22	84	140
2-Methylnaphthalene	µg/kg	670	670	39 D	54 D	68 D	172	335	764 U	121	330 U	26	95	130
Acenaphthene	µg/kg	500	500	300 D	150 D	170 D	43.6	1,210	764 U	203	1,190	14	110	89
Acenaphthylene	µg/kg	1,300	1,300	18 D	98 D	120 D	70.2	316	764 U	127	370	21	26	13
Anthracene	µg/kg	960	960	500 D	390 D	480 D	224	2,100	1,100	358	522	53	310	290
Fluorene	µg/kg	540	540	220 D	130 D	150 D	167	1,040	764 U	236	1,350	16	160	120
Naphthalene	µg/kg	2,100	2,100	37 D	260 D	310 D	3,410 E	1,560	764 U	330	330 U	20	82	37
Phenanthrene	µg/kg	1,500	1,500	1,700 D	1,400 D	1,700 D	1,230	8,270 E	3,490	1,970	3,220	200	1,100	680
Total LPAH	µg/kg	5,200	5,200	2,775	2,428	2,930	5,317	14,831	4,590	3,224	6,652	324	1,788	1,229
HPAH (Dry Weight)														
Benzo(a)anthracene	µg/kg	1,300	1,600	630 D	950 D	1,200 D	170	3,780	2,400	1,200	330 U	150	480	160
Benzo(a)pyrene	µg/kg	1,600	3,000	590 D	970 D	1,200 D	258	4,260	1,400	1,370	330 U	210	610	130
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	790	1,440	1,790	535	7,020	2,710	2,169	330 UT	420	1,030	320
Benzo(ghi)perylene	µg/kg	670	720	250 D	590 D	800 D	227	1,350	1,140	567	330 U	45	130	71
Chrysene	µg/kg	1,400	2,800	660 D	1,100 D	1,400 D	192	3,710	2,660	1,390	330 U	270	660	230
Dibenzo(a,h)anthracene	µg/kg	230	540	77 D	130 D	180 D	31.3	643	764 U	286	330 U	19	61	59 U
Fluoranthene	µg/kg	1,700	2,500	1,500 D	1,900 D	2,400 D	1,030	10,000 E	4,610	2,330	522	530	1,600	720
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	340 D	640 D	820 D	138	1,290	909	542	330 U	49	130	56
Pyrene	µg/kg	2,600	3,300	1,500 D	2,100 D	2,600 D	864	7,450 E	5,060	2,080	709	510	1,400	700
Total HPAH	µg/kg	12,000	17,000	6,337	9,820	12,390	3,445	39,503	20,889	11,934	1,231	2,203	6,101	2,387
cPAH TEQ (Dry Weight)														
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	780.3 U	1,297 U	1,613 U	347.35 T	5,570.4 T	2,066.7 T	1,803.6 T	249.15 U	276.5 T	786.7 T	188.85 T
Chlorinated Organics (OC Normalized)														
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	1.68 U	0.39 U	0.62 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	1.68 U	0.39 U	0.62 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	1.68 U	0.39 U	0.62 U	–	–	–	–	–	0.66 U	0.47 U	0.14
Hexachlorobenzene	mg/kg OC	0.38	2.3	1.68 U	0.39 U	0.62 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
Chlorinated Organics (Dry Weight)														
1,2,4-Trichlorobenzene	µg/kg	31	51	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
1,2-Dichlorobenzene	µg/kg	35	50	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
1,3-Dichlorobenzene	µg/kg	NE	NE	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg	110	120	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	11
Hexachlorobenzene	µg/kg	22	70	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U

Analyte	Units	Location ID		RI-6	RI-7	RI-8	IZ-MW-1	IZ-MW-2	IZ-MW-3	IZ-MW-4	IZ-DP-1	RGH-SC-01		
		Sample ID		RI-6-3.5-4.5	RI-7-3-4	RI-8-4.5-5.5	IZ-MW-1-4-5	IZ-MW-2-2-4	IZ-MW-3-2-4	IZ-MW-4-1-4	IZ-DP-1-3-4	RGH-SC-01-0-2	RGH-SC-01-2-4	RGH-SC-01-4-6
		Sample Date		7/30/2004	7/29/2004	7/29/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004	8/26/2008	8/26/2008	8/26/2008
		Sample Depth (feet)		3.5-4.5	3-4	4.5-5.5	4-5	2-4	2-4	1-4	3-4	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]											
Phthalates (OC Normalized)														
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**1.37 D**	**0.21 D**	**0.30 D**	–	–	–	–	–	**5.92**	**3.07**	**2.34**
Butylbenzylphthalate	mg/kg OC	4.9	64	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
Dibutylphthalate	mg/kg OC	220	1,700	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
Diethylphthalate	mg/kg OC	61	110	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
Dimethylphthalate	mg/kg OC	53	53	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	**0.33**	0.25 U
Di-n-octylphthalate	mg/kg OC	58	4,500	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
Phthalates (Dry Weight)														
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**26 D**	**27 D**	**24 D**	–	–	–	–	–	**170**	**130**	**190**
Butylbenzylphthalate	µg/kg	63	900	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
Dibutylphthalate	µg/kg	1,400	1,400	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
Diethylphthalate	µg/kg	200	>200	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
Dimethylphthalate	µg/kg	71	160	32 U	50 U	50 U	–	–	–	–	–	19 U	**14**	20 U
Di-n-octylphthalate	µg/kg	6,200	6,200	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
Miscellaneous Extractables (OC Normalized)														
Dibenzofuran	mg/kg OC	15	58	**3.90 D**	**0.37 D**	**0.70 D**	5.8 U	2.08 U	3.78 U	3.92 U	7.35 U	**0.56**	**1.98**	**0.38**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	1.68 U	0.39 U	0.61 U	–	–	–	–	–	0.66 U	0.47 U	0.25 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	1.68 U	0.39 U	0.61 U	5.8 U	2.08 U	**7.13**	3.92 U	**37.86**	0.66 U	0.47 U	1.48 U
Miscellaneous Extractables (Dry Weight)														
Dibenzofuran	µg/kg	540	700	**74 D**	**47 D**	**56 D**	330 U	1,390 U	764 U	705 U	330 U	**16**	**84**	**31**
Hexachlorobutadiene	µg/kg	11	120	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
n-Nitrosodiphenylamine	µg/kg	28	40	32 U	50 U	50 U	330 U	1,390 U	**1,440**	705 U	**1,700**	19 U	20 U	120 U
Benzoic acid	µg/kg	650	650	630 U	990 U	990 U	–	–	–	–	–	190 U	200 U	200 U
Benzyl alcohol	µg/kg	57	73	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
Phenol (Dry Weight)														
2,4-Dimethylphenol	µg/kg	29	29	160 U	250 U	250 U	–	–	–	–	–	19 U	20 U	20 U
o-Cresol (2-methylphenol)	µg/kg	63	63	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	20 U
p-Cresol (4-methylphenol)	µg/kg	670	670	32 U	50 U	50 U	–	–	–	–	–	19 U	20 U	**16**
Pentachlorophenol	µg/kg	100	690	**230 D**	**750 D**	**990 D**	50 U	211 U	1,160 U	**210**	**706**	**380**	**270**	**530**
Phenol	µg/kg	420	1,200	**22 D**	**24 D**	**29 D**	–	–	–	–	–	**41**	20 U	20 U
Metals														
Mercury	mg/kg	0.41	0.59	–	–	–	–	–	–	–	–	**0.13**	**0.27**	**0.16**
Non-SMS SVOCs														
Hexachloroethane	µg/kg	–	–	32 U	50 U	50 U	--	--	--	--	--	19 U	20 U	20 U
2,4,5-Trichlorophenol	µg/kg	–	–	--	--	--	330 U	1,390 U	764 U	705 U	330 U	--	--	--
2,4,6-Trichlorophenol	µg/kg	–	–	--	--	--	330 U	1,390 U	764 U	705 U	330 U	--	--	--
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	--	--	--	660 U	2,780 U	1,530 U	1,410 U	660 U	--	--	--
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	--	--	--	330 U	1,390 U	764 U	705 U	330 U	--	--	--

Analyte	Units	Location ID		RGH-SC-02			RGH-SC-03			RGH-SC-04		
		Sample ID		RGH-SC-02-0-2	RGH-SC-02-2-4	RGH-SC-02-4-6	RGH-SC-03-0-2	RGH-SC-03-2-4	RGH-SC-03-4-6	RGH-SC-04-0-2	RGH-SC-04-2-4	RGH-SC-04-4-6
		Sample Date		8/26/2008	8/26/2008	8/26/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]									
Conventional Parameters												
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	73.2	84.7	80	47.8	39.8	39.3	59.9	50.5	56.1
Total organic carbon	Percent	NE	NE	5.01	1.47	6.86	4.32	7.94	10.1	10.6	4.22	1.64
Petroleum Hydrocarbons (Dry Weight)												
Diesel-range hydrocarbons	mg/kg	NE	NE	32	18	25	46	180	110	28	13	8.8 U
Oil-range hydrocarbons	mg/kg	NE	NE	100	100	92	140	510	240	75	28	18 U
Total petroleum hydrocarbons	mg/kg	260	NE	132	118	117	186	690	350	103	41	18 UT
Dioxin/Furans (Dry Weight)												
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	4,400	2,700 E	–	15,000	–	–	5,500	–	–
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	710	480	–	2,600	–	–	910	–	–
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	40	26	–	140 J	–	–	51	–	–
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	250	24	–	260	–	–	68	–	–
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	48	38	–	210	–	–	72	–	–
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	160	99	–	580	–	–	230	–	–
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	12	9.3	–	51	–	–	24	–	–
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	110	44	–	150	–	–	72	–	–
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	5.6	2.9	–	7.2	–	–	6.4	–	–
1,2,3,7,8-PeCDD	ng/kg	NE	NE	34	14	–	110	–	–	39	–	–
1,2,3,7,8-PeCDF	ng/kg	NE	NE	13	5.3	–	32	–	–	14	–	–
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	7.5	5.7	–	31	–	–	13	–	–
2,3,4,7,8-PeCDF	ng/kg	NE	NE	8.6	5.8	–	32	–	–	14	–	–
2,3,7,8-TCDD	ng/kg	NE	NE	39	3.3	–	58	–	–	19	–	–
2,3,7,8-TCDF	ng/kg	NE	NE	5.5	1.2 J	–	22	–	–	8.4	–	–
OCDD	ng/kg	NE	NE	36,000 E	23,000 E	–	220,000 E	–	–	49,000 E	–	–
OCDF	ng/kg	NE	NE	3,200	2,200	–	13,000	–	–	3,400	–	–
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	199	81	–	557	–	–	192	–	–
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	NA	NA	–	NA	–	–	NA	–	–
LPAH (OC Normalized)												
2-Methylnaphthalene	mg/kg OC	38	64	1.26	1.29 U	0.23	0.67	0.42	1.19 U	0.51	0.47 U	1.22 U
Acenaphthene	mg/kg OC	16	57	0.96	1.29 U	0.28 U	0.56	0.47	1.19 U	1.04	0.47 U	1.22 U
Acenaphthylene	mg/kg OC	66	66	0.399 U	1.29 U	0.28 U	0.58	0.86	1.19 U	0.90	0.47 U	1.22 U
Anthracene	mg/kg OC	220	1,200	2.40	1.29 U	0.16	1.62	3.28	0.78	3.49	0.24	1.22 U
Fluorene	mg/kg OC	23	79	1.36	1.29 U	0.28 U	0.72	0.76	1.19 U	1.70	0.47 U	1.22 U
Naphthalene	mg/kg OC	99	170	0.96	2.11	0.2	0.53	0.50	1.19 U	1.23	0.64	0.85
Phenanthrene	mg/kg OC	100	480	9.78	1.50	0.57	8.10	8.44	2.28	25.47	0.81	1.71
Total LPAH	mg/kg OC	370	780	15.45	3.61	0.93	12.11	14.30	3.06	33.82	1.68	2.56

Analyte	Units	Location ID		RGH-SC-02			RGH-SC-03			RGH-SC-04		
		Sample ID		RGH-SC-02-0-2	RGH-SC-02-2-4	RGH-SC-02-4-6	RGH-SC-03-0-2	RGH-SC-03-2-4	RGH-SC-03-4-6	RGH-SC-04-0-2	RGH-SC-04-2-4	RGH-SC-04-4-6
		Sample Date		8/26/2008	8/26/2008	8/26/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]									
HPAH (OC Normalized)												
Benzo(a)anthracene	mg/kg OC	110	270	4.99	1.29 U	0.41	3.70	4.28	2.57 J	1.32	0.31	1.22 U
Benzo(a)pyrene	mg/kg OC	99	210	5.39	1.29 U	0.69	5.09	6.17	2.28	5.19	0.43	0.67
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	10.18	1.29 U	1.52	11.57	19.77	5.25	12.45	0.92	0.85
Benzo(ghi)perylene	mg/kg OC	31	78	1.12	1.29 U	0.20	1.02	2.14	0.85	1.79	0.47 U	1.22 U
Chrysene	mg/kg OC	110	460	5.39	1.29 U	0.67	7.87	18.89	3.66	11.32	0.47	0.67
Dibenzo(a,h)anthracene	mg/kg OC	12	33	0.34	1.29 U	0.27 U	0.46 U	0.74 U	1.19 U	0.29	0.47 U	1.22 U
Fluoranthene	mg/kg OC	160	1,200	10.98	1.84	1.43	12.04	50.38	5.45 J	21.70	1.26	1.89
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.12	1.29 U	0.14	1.11	2.14	0.71	1.79	0.47 U	1.22 U
Pyrene	mg/kg OC	1,000	1,400	10.98	4.01	1.75	12.73	50.38	6.24	23.59	1.14	1.59
Total HPAH	mg/kg OC	960	5,300	50.48	5.85	6.8	55.14	154.16	27.01 J	79.44	4.53	5.67
LPAH (Dry Weight)												
1-Methylnaphthalene	µg/kg	NE	NE	60	19 U	12	30	24	120 U	55	20 U	20 U
2-Methylnaphthalene	µg/kg	670	670	63	19 U	16	29	33	120 U	54	20 U	20 U
Acenaphthene	µg/kg	500	500	48	19 U	19 U	24	37	120 U	110	20 U	20 U
Acenaphthylene	µg/kg	1,300	1,300	20 U	19 U	19 U	25	68	120 U	95	20 U	20 U
Anthracene	µg/kg	960	960	120	19 U	11	70	260	79	370	10	20 U
Fluorene	µg/kg	540	540	68	19 U	19 U	31	60	120 U	180	20 U	20 U
Naphthalene	µg/kg	2,100	2,100	48	31	14	23	40	120 U	130	27	14
Phenanthrene	µg/kg	1,500	1,500	490	22	39	350	670	230	2,700	34	28
Total LPAH	µg/kg	5,200	5,200	774	53	64	523	1,135	309	3,585	71	42
HPAH (Dry Weight)												
Benzo(a)anthracene	µg/kg	1,300	1,600	250	19 U	28	160	340	260 J	140	13	20 U
Benzo(a)pyrene	µg/kg	1,600	3,000	270	19 U	47	220	490	230	550	18	11
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	510	19 UT	104	500	1,570	530	1,320	39	14
Benzo(ghi)perylene	µg/kg	670	720	56	19 U	14	44	170	86	190	20 U	20 U
Chrysene	µg/kg	1,400	2,800	270	19 U	46	340	1,500	370	1,200	20	11
Dibenzo(a,h)anthracene	µg/kg	230	540	17	19 U	19 U	20 U	59 U	120 U	31	20 U	20 U
Fluoranthene	µg/kg	1,700	2,500	550	27	98	520	4,000	550 J	2,300	53	31
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	56	19 U	9.7	48	170	72	190	20 U	20 U
Pyrene	µg/kg	2,600	3,300	550	59	120	550	4,000	630	2,500	48	26
Total HPAH	µg/kg	12,000	17,000	2,529	86	466.7	2,382	12,240	2,728 J	8,421	191	93
cPAH TEQ (Dry Weight)												
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	356 T	14.345 U	62.58 T	295.2 T	715.95 T	325.9 T	730.1 T	25.4 T	16.51 T
Chlorinated Organics (OC Normalized)												
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Chlorinated Organics (Dry Weight)												
1,2,4-Trichlorobenzene	µg/kg	31	51	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
1,2-Dichlorobenzene	µg/kg	35	50	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
1,3-Dichlorobenzene	µg/kg	NE	NE	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg	110	120	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
Hexachlorobenzene	µg/kg	22	70	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U

Analyte	Units	Location ID		RGH-SC-02			RGH-SC-03			RGH-SC-04		
		Sample ID		RGH-SC-02-0-2	RGH-SC-02-2-4	RGH-SC-02-4-6	RGH-SC-03-0-2	RGH-SC-03-2-4	RGH-SC-03-4-6	RGH-SC-04-0-2	RGH-SC-04-2-4	RGH-SC-04-4-6
		Sample Date		8/26/2008	8/26/2008	8/26/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6
		SCO/LAET[1]	CSL/2LAET[1]									
Phthalates (OC Normalized)												
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**7.78**	1.29 U	**3.94**	**4.40**	**8.06**	**4.65 J**	**0.56**	0.47 U	1.22 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	**0.68 J**	0.19 U	0.47 U	1.22 U
Dibutylphthalate	mg/kg OC	220	1,700	**0.38**	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Diethylphthalate	mg/kg OC	61	110	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Dimethylphthalate	mg/kg OC	53	53	**0.34**	1.29 U	**8.60**	0.46 U	**0.24**	1.19 U	0.19 U	0.47 U	1.22 U
Di-n-octylphthalate	mg/kg OC	58	4,500	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Phthalates (Dry Weight)												
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**390**	19 U	**270**	**190**	**640**	**470 J**	**59**	20 U	20 U
Butylbenzylphthalate	µg/kg	63	900	20 U	19 U	19 U	20 U	20 U	**69 J**	20 U	20 U	20 U
Dibutylphthalate	µg/kg	1,400	1,400	**19**	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
Diethylphthalate	µg/kg	200	>200	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
Dimethylphthalate	µg/kg	71	160	**17**	19 U	**590**	20 U	**19**	120 U	20 U	20 U	20 U
Di-n-octylphthalate	µg/kg	6,200	6,200	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
Miscellaneous Extractables (OC Normalized)												
Dibenzofuran	mg/kg OC	15	58	**0.84**	1.29 U	0.28 U	**0.49**	**0.32**	1.19 U	**1.51**	0.47 U	1.22 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.40 U	1.29 U	0.28 U	0.46 U	0.25 U	1.19 U	0.19 U	0.47 U	1.22 U
Miscellaneous Extractables (Dry Weight)												
Dibenzofuran	µg/kg	540	700	**42**	19 U	19 U	**21**	**25**	120 U	**160**	20 U	20 U
Hexachlorobutadiene	µg/kg	11	120	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
n-Nitrosodiphenylamine	µg/kg	28	40	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
Benzoic acid	µg/kg	650	650	200 U	190 U	**250**	200 U	200 U	1200 U	200 U	200 U	200 U
Benzyl alcohol	µg/kg	57	73	20 U	19 U	**18**	20 U	20 U	120 U	20 U	20 U	20 U
Phenol (Dry Weight)												
2,4-Dimethylphenol	µg/kg	29	29	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
o-Cresol (2-methylphenol)	µg/kg	63	63	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
p-Cresol (4-methylphenol)	µg/kg	670	670	20 U	19 U	19 U	20 U	**26**	120 U	**46**	20 U	20 U
Pentachlorophenol	µg/kg	100	690	**230**	96 U	**170**	**220**	**720**	590 U	**130**	99 U	98 U
Phenol	µg/kg	420	1,200	20 U	19 U	19 U	20 U	**18**	120 U	**22**	20 U	20 U
Metals												
Mercury	mg/kg	0.41	0.59	**0.08**	**0.07**	**0.08**	**0.48**	**0.7**	**1.59**	**0.23**	**0.11**	**0.09**
Non-SMS SVOCs												
Hexachloroethane	µg/kg	–	–	20 U	19 U	19 U	20 U	20 U	120 U	20 U	20 U	20 U
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		RGH-SC-05			RGH-SC-06			RGH-SC-07		
		Sample ID		RGH-SC-05-0-2	RGH-SC-05-2-4	RGH-SC-05-4-6	RGH-SC-06-0-2	RGH-SC-06-2-4	RGH-SC-06-4-6	RGH-SC-07-0-2	RGH-SC-07-2-4	RGH-SC-07-4-6.8
		Sample Date		8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	9/24/2008	9/24/2008	9/24/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6.8
		SCO/LAET[1]	CSL/2LAET[1]									
Conventional Parameters												
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	44.7	45	44.1	44.3	48.4	44.3	53.8	29.7	35.6
Total organic carbon	Percent	NE	NE	4.8	2.38	6.39	4.08	3.89	8.08	11.3	38.6	22.6
Petroleum Hydrocarbons (Dry Weight)												
Diesel-range hydrocarbons	mg/kg	NE	NE	120	12	41	61	50	110	63	210	330
Oil-range hydrocarbons	mg/kg	NE	NE	200	21 U	72	99	64	190	170	190	650
Total petroleum hydrocarbons	mg/kg	260	NE	320	12	113	160	114	300	233	400	980
Dioxin/Furans (Dry Weight)												
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	1,500	--	--	990	26	--	--	--	--
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	130	--	--	89	6.5	--	--	--	--
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	7.4	--	--	5.4	0.4 U	--	--	--	--
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	11	--	--	6.5	0.4 U	--	--	--	--
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	12	--	--	8	1.7	--	--	--	--
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	45	--	--	28	1.2	--	--	--	--
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	4.2	--	--	2.5 U	0.6	--	--	--	--
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	13	--	--	9.3	1.1	--	--	--	--
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	1.3	--	--	2.3	0.3	--	--	--	--
1,2,3,7,8-PeCDD	ng/kg	NE	NE	5.1	--	--	2.7	0.5 U	--	--	--	--
1,2,3,7,8-PeCDF	ng/kg	NE	NE	3.9	--	--	2.2	0.7	--	--	--	--
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	2.6	--	--	1.9	0.7	--	--	--	--
2,3,4,7,8-PeCDF	ng/kg	NE	NE	4.1	--	--	2.4	0.7 U	--	--	--	--
2,3,7,8-TCDD	ng/kg	NE	NE	1.4	--	--	0.8	0.2 U	--	--	--	--
2,3,7,8-TCDF	ng/kg	NE	NE	6.4	--	--	5.1	1.4 U	--	--	--	--
OCDD	ng/kg	NE	NE	10,000 E	--	--	7,500 E	250	--	--	--	--
OCDF	ng/kg	NE	NE	570	--	--	420	12	--	--	--	--
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	37	--	--	24	1.0	--	--	--	--
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	NA	--	--	24	1.6	--	--	--	--
LPAH (OC Normalized)												
2-Methylnaphthalene	mg/kg OC	38	64	0.29	0.84 U	0.31 U	0.49 U	2.42	2.48	0.34	0.54	0.16
Acenaphthene	mg/kg OC	16	57	0.90	0.84 U	0.31 U	0.49 U	0.39	1.36	0.42	0.23	0.075
Acenaphthylene	mg/kg OC	66	66	0.77	0.84 U	0.25	0.49 U	0.41	5.45	0.32	0.29	0.15
Anthracene	mg/kg OC	220	1,200	3.13	0.84 U	1.72	0.74	0.72	13.61	0.97	0.25	0.12
Fluorene	mg/kg OC	23	79	0.90	0.84 U	0.31	0.27	0.44	5.45	0.56	0.44	0.14
Naphthalene	mg/kg OC	99	170	1.04	0.84 U	0.45	0.93	3.09	5.94	5.93	15.29	3.72
Phenanthrene	mg/kg OC	100	480	10.00	0.50	7.36	3.19	3.60	40.84	5.13	2.18	0.80
Total LPAH	mg/kg OC	370	780	16.73	0.50	10.09	5.12	8.64	72.65	13.33	18.67	4.99

Analyte	Units	Location ID		RGH-SC-05			RGH-SC-06			RGH-SC-07		
		Sample ID		RGH-SC-05-0-2	RGH-SC-05-2-4	RGH-SC-05-4-6	RGH-SC-06-0-2	RGH-SC-06-2-4	RGH-SC-06-4-6	RGH-SC-07-0-2	RGH-SC-07-2-4	RGH-SC-07-4-6.8
		Sample Date		8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	9/24/2008	9/24/2008	9/24/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6.8
		SCO/LAET[1]	CSL/2LAET[1]									
HPAH (OC Normalized)												
Benzo(a)anthracene	mg/kg OC	110	270	5.83	0.84 U	2.50	1.28	1.39	25.99	1.86	0.062	0.088 U
Benzo(a)pyrene	mg/kg OC	99	210	7.92	0.84 U	2.66	1.50	1.85	29.70	2.74	0.11	0.12
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	14.58	0.84 UT	4.23	2.40	2.62	40.84	3.63	0.18	0.19
Benzo(ghi)perylene	mg/kg OC	31	78	1.67	0.84 U	1.72	1.03	1.23	17.33	1.06	0.093	0.07
Chrysene	mg/kg OC	110	460	7.08	0.84 U	3.91	1.89	1.98	28.47	3.45 J	0.07	0.088 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	0.67	0.84 U	0.28	0.49 U	0.514 U	5.69	0.35	0.052 U	0.088 U
Fluoranthene	mg/kg OC	160	1,200	15.21	0.714	10.64	4.41	3.09	51.98	6.73	1.27	0.58
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.69	0.84 U	1.44	0.86	0.98	16.09	0.84	0.049	0.05
Pyrene	mg/kg OC	1,000	1,400	13.33	0.80	9.55	4.41	3.60	63.12	5.31	0.65	0.39
Total HPAH	mg/kg OC	960	5,300	67.98	1.51	36.93	17.77	16.74	279.21	25.97 J	2.48	1.39
LPAH (Dry Weight)												
1-Methylnaphthalene	µg/kg	NE	NE	12	20 U	20 U	20 U	64	170	38	230	34
2-Methylnaphthalene	µg/kg	670	670	14	20 U	20 U	20 U	94	200	38	210	35
Acenaphthene	µg/kg	500	500	43	20 U	20 U	20 U	15	110	47	90	17
Acenaphthylene	µg/kg	1,300	1,300	37	20 U	16	20 U	16	440	36	110	33
Anthracene	µg/kg	960	960	150	20 U	110	30	28	1,100	110	97	26
Fluorene	µg/kg	540	540	43	20 U	20	11	17	440	63	170	32
Naphthalene	µg/kg	2,100	2,100	50	20 U	29	38	120	480	670	5,900	840
Phenanthrene	µg/kg	1,500	1,500	480	12	470	130	140	3,300	580	840	180
Total LPAH	µg/kg	5,200	5,200	803	12	645	209	336	5,870	1,506	7,207	1,128
HPAH (Dry Weight)												
Benzo(a)anthracene	µg/kg	1,300	1,600	280	20 U	160	52	54	2,100	210	24	20 U
Benzo(a)pyrene	µg/kg	1,600	3,000	380	20 U	170	61	72	2,400	310	42	27
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	700	20 UT	270	98	102	3,300	410	70	42
Benzo(ghi)perylene	µg/kg	670	720	80	20 U	110	42	48	1,400	120	36	15
Chrysene	µg/kg	1,400	2,800	340	20 U	250	77	77	2,300	390 J	27	20 U
Dibenzo(a,h)anthracene	µg/kg	230	540	32	20 U	18	20 U	20 U	460	39	20 U	20 U
Fluoranthene	µg/kg	1,700	2,500	730	17	680	180	120	4,200	760	490	130
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	81	20 U	92	35	38	1,300	95	19	11
Pyrene	µg/kg	2,600	3,300	640	19	610	180	140	5,100	600	250	89
Total HPAH	µg/kg	12,000	17,000	3,263	36	2,360	725	651	22,560	2,934 J	958	314
cPAH TEQ (Dry Weight)												
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	492.7 T	15.1 U	226.5 T	81.27 T	93.17 T	3,139 T	389.3 T	54.57 T	34.4 T
Chlorinated Organics (OC Normalized)												
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Chlorinated Organics (Dry Weight)												
1,2,4-Trichlorobenzene	µg/kg	31	51	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
1,2-Dichlorobenzene	µg/kg	35	50	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
1,3-Dichlorobenzene	µg/kg	NE	NE	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg	110	120	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Hexachlorobenzene	µg/kg	22	70	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U

Analyte	Units	Location ID		RGH-SC-05			RGH-SC-06			RGH-SC-07		
		Sample ID		RGH-SC-05-0-2	RGH-SC-05-2-4	RGH-SC-05-4-6	RGH-SC-06-0-2	RGH-SC-06-2-4	RGH-SC-06-4-6	RGH-SC-07-0-2	RGH-SC-07-2-4	RGH-SC-07-4-6.8
		Sample Date		8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	8/27/2008	9/24/2008	9/24/2008	9/24/2008
		Sample Depth (feet)		0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6.8
		SCO/LAET[1]	CSL/2LAET[1]									
Phthalates (OC Normalized)												
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**0.23**	0.84 U	0.31 U	0.49 U	**0.36**	0.73 U	**0.89**	0.052 U	0.088 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Dibutylphthalate	mg/kg OC	220	1,700	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Diethylphthalate	mg/kg OC	61	110	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Dimethylphthalate	mg/kg OC	53	53	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	**1.59**	0.052 U	0.088 U
Di-n-octylphthalate	mg/kg OC	58	4,500	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Phthalates (Dry Weight)												
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**11**	20 U	20 U	20 U	**14**	59 U	**100**	20 U	20 U
Butylbenzylphthalate	µg/kg	63	900	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Dibutylphthalate	µg/kg	1,400	1,400	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Diethylphthalate	µg/kg	200	>200	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Dimethylphthalate	µg/kg	71	160	20 U	20 U	20 U	20 U	20 U	59 U	**180**	20 U	20 U
Di-n-octylphthalate	µg/kg	6,200	6,200	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Miscellaneous Extractables (OC Normalized)												
Dibenzofuran	mg/kg OC	15	58	**0.44**	0.84 U	**0.17**	0.49 U	**0.82**	**2.23**	**0.34**	**0.42**	**0.14**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.42 U	0.84 U	0.31 U	0.49 U	0.51 U	0.73 U	0.18 U	0.052 U	0.088 U
Miscellaneous Extractables (Dry Weight)												
Dibenzofuran	µg/kg	540	700	**21**	20 U	**11**	20 U	**32**	**180**	**38**	**160**	**32**
Hexachlorobutadiene	µg/kg	11	120	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
n-Nitrosodiphenylamine	µg/kg	28	40	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Benzoic acid	µg/kg	650	650	200 U	200 U	200 U	200 U	200 U	590 U	200 U	200 U	200 U
Benzyl alcohol	µg/kg	57	73	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
Phenol (Dry Weight)												
2,4-Dimethylphenol	µg/kg	29	29	20 U	20 U	20 U	20 U	**15**	59 U	20 U	**42**	20 U
o-Cresol (2-methylphenol)	µg/kg	63	63	20 U	20 U	20 U	20 U	20 U	59 U	20 U	**32**	20 U
p-Cresol (4-methylphenol)	µg/kg	670	670	**19**	20 U	**23**	**22**	**89**	**230**	**34**	**44**	**13 J**
Pentachlorophenol	µg/kg	100	690	99 U	98 U	98 U	98 U	98 U	300 U	98 U	99 U	97 U
Phenol	µg/kg	420	1,200	20 U	20 U	**21**	20 U	**15**	**56**	**18**	**40**	**31**
Metals												
Mercury	mg/kg	0.41	0.59	**0.3**	**0.09**	**0.29**	**0.2**	**0.74**	**0.83 J**	**0.2**	0.2 U	0.09 U
Non-SMS SVOCs												
Hexachloroethane	µg/kg	–	–	20 U	20 U	20 U	20 U	20 U	59 U	20 U	20 U	20 U
2,4,5-Trichlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--

Analyte	Units	Location ID		RGH-SC-08			RGH-SC-09			6B-01-DC		6B-02-DC	
		Sample ID		RGH-SC-08-0-2	RGH-SC-08-2-4	RGH-SC-08-4-5.5	RGH-SC-09-0-2	RGH-SC-09-2-4	RGH-SC-09-4-5.5	6B-01-DC-1-2	6B-01-DC-2-3	6B-02-DC-1-2	6B-02-DC-2-3
		Sample Date		9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	4/30/2009	4/30/2009	4/30/2009	4/30/2009
		Sample Depth (feet)		0-2	2-4	4-5.5	0-2	2-4	4-5.5	1-2	2-3	1-2	2-3
		SCO/LAET[1]	CSL/2LAET[1]										
Conventional Parameters													
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	38.4	33.8	29.3	43.4	42.1	41.3	–	–	42.2	42.8
Total organic carbon	Percent	NE	NE	14.9	27.3	18.9	3.69	7.41	5.32	–	–	3.34	3.01
Petroleum Hydrocarbons (Dry Weight)													
Diesel-range hydrocarbons	mg/kg	NE	NE	210	320	670	300	130	360	–	–	–	–
Oil-range hydrocarbons	mg/kg	NE	NE	670	800	690	500	300	950	–	–	–	–
Total petroleum hydrocarbons	mg/kg	260	NE	880	1,120	1,360	800	430	1,310	–	–	–	–
Dioxin/Furans (Dry Weight)													
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,7,8-PeCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
1,2,3,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
2,3,4,7,8-PeCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
2,3,7,8-TCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
2,3,7,8-TCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
OCDD	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
OCDF	ng/kg	NE	NE	–	–	–	–	–	–	–	–	–	–
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	–	–	–	–	–	–	–	–	–	–
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	–	–	–	–	–	–	–	–	–	–
LPAH (OC Normalized)													
2-Methylnaphthalene	mg/kg OC	38	64	0.13 U	0.12	0.95	0.33	0.35	1.32	–	–	0.60 U	0.66 U
Acenaphthene	mg/kg OC	16	57	0.074	0.06	0.74	0.54 U	0.19	1.11	–	–	0.60 U	0.66 U
Acenaphthylene	mg/kg OC	66	66	0.11	0.10	0.20	0.38	0.26	1.65	–	–	0.60 U	0.66 U
Anthracene	mg/kg OC	220	1,200	0.23	0.15	2.38	0.89	1.12	3.76	–	–	0.60 U	0.66 U
Fluorene	mg/kg OC	23	79	0.087	0.07	0.58	0.33	0.32	1.34	–	–	0.60 U	0.66 U
Naphthalene	mg/kg OC	99	170	0.087	0.10	0.44	0.41	0.43	1.28	–	–	0.60 U	0.66 U
Phenanthrene	mg/kg OC	100	480	0.81	0.66	4.13	2.60	1.62	12.78	–	–	0.69	0.37 J
Total LPAH	mg/kg OC	370	780	1.40	1.14	8.47	4.61	3.94	21.92	–	–	0.69	0.37 J

Analyte	Units	Location ID		RGH-SC-08			RGH-SC-09			6B-01-DC		6B-02-DC	
		Sample ID		RGH-SC-08-0-2	RGH-SC-08-2-4	RGH-SC-08-4-5.5	RGH-SC-09-0-2	RGH-SC-09-2-4	RGH-SC-09-4-5.5	6B-01-DC-1-2	6B-01-DC-2-3	6B-02-DC-1-2	6B-02-DC-2-3
		Sample Date		9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	4/30/2009	4/30/2009	4/30/2009	4/30/2009
		Sample Depth (feet)		0-2	2-4	4-5.5	0-2	2-4	4-5.5	1-2	2-3	1-2	2-3
		SCO/LAET[1]	CSL/2LAET[1]										
HPAH (OC Normalized)													
Benzo(a)anthracene	mg/kg OC	110	270	0.74	0.70	2.59	2.63	2.56	5.83	–	–	0.54 J	0.40 J
Benzo(a)pyrene	mg/kg OC	99	210	0.81	0.88	1.80	2.11	1.48	9.02	–	–	0.42 J	0.66 U
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	1.41	1.43	3.18	4.26	3.10	15.98	–	–	0.96 J	0.76 J
Benzo(ghi)perylene	mg/kg OC	31	78	0.26	0.25	0.53	0.68	0.46	2.82	–	–	0.60 U	0.66 U
Chrysene	mg/kg OC	110	460	0.87	0.81	3.28	4.34	3.10	9.77	–	–	0.84	0.602 J
Dibenzo(a,h)anthracene	mg/kg OC	12	33	0.094	0.073 U	0.32 U	0.54 U	0.27 U	0.88	–	–	0.60 U	0.66 U
Fluoranthene	mg/kg OC	160	1,200	1.41	1.21	10.58	4.61	5.40	22.56	–	–	1.14	0.73
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	0.23	0.26	0.35	0.62	0.46	2.63	–	–	0.60 U	0.66 U
Pyrene	mg/kg OC	1,000	1,400	1.007	0.92	5.82	3.52	3.37	13.35	–	–	1.38	0.9
Total HPAH	mg/kg OC	960	5,300	6.82	6.44	28.13	22.76	19.95	82.84	–	–	5.27 J	3.40 J
LPAH (Dry Weight)													
1-Methylnaphthalene	µg/kg	NE	NE	20 U	27	120	10	25	58	–	–	20 U	20 U
2-Methylnaphthalene	µg/kg	670	670	20 U	32	180	12	26	70	–	–	20 U	20 U
Acenaphthene	µg/kg	500	500	11	17	140	20 U	14	59	–	–	20 U	20 U
Acenaphthylene	µg/kg	1,300	1,300	17	26	37	14	19	88	–	–	20 U	20 U
Anthracene	µg/kg	960	960	34	41	450	33	83	200	–	–	20 U	20 U
Fluorene	µg/kg	540	540	13	19	110	12	24	71	–	–	20 U	20 U
Naphthalene	µg/kg	2,100	2,100	13	27	84	15	32	68	–	–	20 U	20 U
Phenanthrene	µg/kg	1,500	1,500	120	180	780	96	120	680	–	–	23	11 J
Total LPAH	µg/kg	5,200	5,200	208	310	1,601	170	292	1,166	–	–	23	11 J
HPAH (Dry Weight)													
Benzo(a)anthracene	µg/kg	1,300	1,600	110	190	490	97	190	310	–	–	18 J	12 J
Benzo(a)pyrene	µg/kg	1,600	3,000	120	240	340	78	110	480	–	–	14 J	20 U
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	210	390	600	157	230	850	–	–	32 J	23 J
Benzo(ghi)perylene	µg/kg	670	720	38	68	100	25	34	150	–	–	20 U	20 U
Chrysene	µg/kg	1,400	2,800	130	220	620	160	230	520	–	–	28	18 J
Dibenzo(a,h)anthracene	µg/kg	230	540	14	20 U	60 U	20 U	20 U	47	–	–	20 U	20 U
Fluoranthene	µg/kg	1,700	2,500	210	330	2,000	170	400	1,200	–	–	38	22
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	34	70	66	23	34	140	–	–	20 U	20 U
Pyrene	µg/kg	2,600	3,300	150	250	1,100	130	250	710	–	–	46	27
Total HPAH	µg/kg	12,000	17,000	1,016	1,758	5,316	840	1,478	4,407	–	–	176 J	102 J
cPAH TEQ (Dry Weight)													
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	158.1 T	308.2 T	464.8 T	108.3 T	158.7 T	619.9 T	–	–	21.28 T	15.68 T
Chlorinated Organics (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.13 U	0.07 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.13 U	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	–	–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.13 U	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.13 U	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
Chlorinated Organics (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	31	51	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
1,2-Dichlorobenzene	µg/kg	35	50	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
1,3-Dichlorobenzene	µg/kg	NE	NE	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
1,4-Dichlorobenzene	µg/kg	110	120	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
Hexachlorobenzene	µg/kg	22	70	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U

Analyte	Units	Location ID		RGH-SC-08			RGH-SC-09			6B-01-DC		6B-02-DC	
		Sample ID		RGH-SC-08-0-2	RGH-SC-08-2-4	RGH-SC-08-4-5.5	RGH-SC-09-0-2	RGH-SC-09-2-4	RGH-SC-09-4-5.5	6B-01-DC-1-2	6B-01-DC-2-3	6B-02-DC-1-2	6B-02-DC-2-3
		Sample Date		9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	4/30/2009	4/30/2009	4/30/2009	4/30/2009
		Sample Depth (feet)		0-2	2-4	4-5.5	0-2	2-4	4-5.5	1-2	2-3	1-2	2-3
		SCO/LAET[1]	CSL/2LAET[1]										
Phthalates (OC Normalized)													
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**0.56**	**0.92**	**4.97**	**3.25**	**2.43**	**3.76**	–	–	**0.36 J**	0.66 U
Butylbenzylphthalate	mg/kg OC	4.9	64	**0.74**	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
Dibutylphthalate	mg/kg OC	220	1,700	**0.12**	0.073 U	**1.01**	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
Diethylphthalate	mg/kg OC	61	110	0.13 U	0.073 U	0.32 U	0.54 U	**0.24**	0.38 U	–	–	0.60 U	0.66 U
Dimethylphthalate	mg/kg OC	53	53	**0.20**	0.073 U	**0.58**	0.54 U	0.27 U	**0.23**	–	–	0.60 U	0.66 U
Di-n-octylphthalate	mg/kg OC	58	4,500	0.13 U	0.22 U	1.06 U	0.54 U	0.796 U	1.11 U	–	–	0.60 U	0.66 U
Phthalates (Dry Weight)													
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**84**	**250**	**940**	**120**	**180**	**200**	–	–	**12 J**	20 U
Butylbenzylphthalate	µg/kg	63	900	**110**	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
Dibutylphthalate	µg/kg	1,400	1,400	**18**	20 U	**190**	20 U	20 U	20 U	–	–	20 U	20 U
Diethylphthalate	µg/kg	200	>200	20 U	20 U	60 U	20 U	**18**	20 U	–	–	20 U	20 U
Dimethylphthalate	µg/kg	71	160	**30**	20 U	**110**	20 U	20 U	**12**	–	–	20 U	20 U
Di-n-octylphthalate	µg/kg	6,200	6,200	20 U	60 U	200 U	20 U	59 U	59 U	–	–	20 U	20 U
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	15	58	0.13 U	0.073 U	**0.58**	0.54 U	**0.20**	**0.79**	–	–	0.60 U	0.66 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.13 U	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	–	–
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.13 U	0.073 U	0.32 U	0.54 U	0.27 U	0.38 U	–	–	0.60 U	0.66 U
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	540	700	20 U	20 U	**110**	20 U	**15**	**42**	–	–	20 U	20 U
Hexachlorobutadiene	µg/kg	11	120	20 U	20 U	60 U	20 U	20 U	20 U	–	–	–	–
n-Nitrosodiphenylamine	µg/kg	28	40	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
Benzoic acid	µg/kg	650	650	200 U	200 U	600 U	200 U	200 U	200 U	–	–	200 U	200 UJ
Benzyl alcohol	µg/kg	57	73	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	–
Phenol (Dry Weight)													
2,4-Dimethylphenol	µg/kg	29	29	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
o-Cresol (2-methylphenol)	µg/kg	63	63	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
p-Cresol (4-methylphenol)	µg/kg	670	670	**18**	**21**	**48**	20 U	**76**	**27**	–	–	20 U	20 U
Pentachlorophenol	µg/kg	100	690	**150**	**450**	**4,100**	**91**	**260**	**420**	–	–	99 U	100 U
Phenol	µg/kg	420	1,200	20 U	**15**	60 U	20 U	**260**	**22**	–	–	20 U	20 U
Metals													
Mercury	mg/kg	0.41	0.59	**1**	**0.9**	**11.3**	**0.56**	**1.5**	**1.9**	**0.62**	**2.49**	**0.45**	–
Non-SMS SVOCs													
Hexachloroethane	µg/kg	–	–	20 U	20 U	60 U	20 U	20 U	20 U	–	–	20 U	20 U
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		COB-SC-01				COB-SC-02				
		Sample ID		COB-SC-01-00-02	COB-SC-01-02-04	COB-SC-01-04-06	COB-SC-01-10.5-12	COB-SC-02-00-02	COB-SC-02-02-04	COB-SC-02-04-06	COB-SC-02-08-10	COB-SC-02-12.5-14.5
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	10.5 - 12	0 - 2	2 - 4	4 - 6	8 - 10	12.5 - 14.5
		SCO/LAET[1]	CSL/2LAET[1]									
Conventional Parameters												
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	59.2	57.8	76.8	22.7	76.3	54.0	31.6	20.4	74.6
Total organic carbon	Percent	NE	NE	12	3.78	0.38	60.8	2.6	12.9	17	35	1.24
Petroleum Hydrocarbons (Dry Weight)												
Diesel-range hydrocarbons	mg/kg	NE	NE	1,900	13 U	10 U	51	10 U	2,400	24 U	37 U	8.3
Oil-range hydrocarbons	mg/kg	NE	NE	1,900	32 U	26 U	110	970	2,300	930	190	13 U
Total petroleum hydrocarbons	mg/kg	260	NE	3,800	32 U	26 U	161	970	4,700	930	190	8.3
Dioxin/Furans (Dry Weight)												
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	22,900	103	12	243	5,840	11,300	–	366	23
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	7,440	37	6.3 U	82	1,630	3,550	–	80	6.3
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	512	2.5	0.4 J	5.6	113	231	–	5.2	0.4
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	23.1	0.7	0.3 U	0.3 J	27	19	–	3.1	0.2
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	260	1.8	0.3 J	2.7	100	216	–	5.6	0.6
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	789	3.9	0.4 J	7.7	229	403	–	13	1.0
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	55	1.0	0.8 U	0.7 J	27	49	–	2.1	0.2
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	74	1.0	0.2 J	0.8 J	51	30	–	5.0	0.4
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	71	0.5	0.2 J	0.9 J	35	79	–	2.0	0.2
1,2,3,7,8-PeCDD	ng/kg	NE	NE	9.1	1.1	0.2 J	0.3 J	15	9.8	–	3.7	0.4
1,2,3,7,8-PeCDF	ng/kg	NE	NE	29	1.3	0.1 J	0.5	15 U	34	–	2.3	0.3
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	113	1.3	0.1 J	1.4 J	49	84	–	3.2	0.3
2,3,4,7,8-PeCDF	ng/kg	NE	NE	28	1.2	0.1 J	0.4 J	17	40	–	2.4	0.3
2,3,7,8-TCDD	ng/kg	NE	NE	1.5	0.5	0.4 U	0.2	2.9	2.3	–	1.1	0.2
2,3,7,8-TCDF	ng/kg	NE	NE	10.2	1.9	0.2 U	0.5	6.5 U	18	–	3.7	0.4
OCDD	ng/kg	NE	NE	224,000 J	921	90	2,130	63,700	124,000	–	3,400	219
OCDF	ng/kg	NE	NE	48,200	250	20	631	8,940	22,300	–	480	37
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	550	5	0.5	6.3	173	309	–	15	1.3
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	NA	NA	0.8	NA	173	NA	–	NA	NA
LPAH (OC Normalized)												
2-Methylnaphthalene	mg/kg OC	38	64	17.50	23.55	12.37	0.061	24.23	1.16	2.71	1.37	0.12 U
Acenaphthene	mg/kg OC	16	57	36.67	2.12	7.90 U	0.094	62	0.93	2.12	0.27	0.12 U
Acenaphthylene	mg/kg OC	66	66	12.50	1.75	7.90 U	0.090	46.15	0.85	2.47	0.94	0.12 U
Anthracene	mg/kg OC	220	1,200	9.17	1.09 U	7.90 U	0.11	134.62	2.79	3.59	0.43	0.12 U
Fluorene	mg/kg OC	23	79	30.00	1.09 U	7.90 U	0.092	69.23	0.93	2.65	0.40	0.12 U
Naphthalene	mg/kg OC	99	170	8.25	10.85	9.47	0.35	36.92	1.24	29.41	11.71	0.19
Phenanthrene	mg/kg OC	100	480	108.33	2.62	7.90 U	0.54	423.08	7.44	14.71	1.91	0.23
Total LPAH	mg/kg OC	370	780	222.42	40.87	21.84	1.34	795.77	15.35	57.65	17.04	0.41

Analyte	Units	Location ID		COB-SC-01				COB-SC-02				
		Sample ID		COB-SC-01-00-02	COB-SC-01-02-04	COB-SC-01-04-06	COB-SC-01-10.5-12	COB-SC-02-00-02	COB-SC-02-02-04	COB-SC-02-04-06	COB-SC-02-08-10	COB-SC-02-12.5-14.5
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	10.5 - 12	0 - 2	2 - 4	4 - 6	8 - 10	12.5 - 14.5
		SCO/LAET[1]	CSL/2LAET[1]									
HPAH (OC Normalized)												
Benzo(a)anthracene	mg/kg OC	110	270	4.17	0.77	7.90 U	0.18	188.46	4.42	6.47	0.94	0.12 U
Benzo(a)pyrene	mg/kg OC	99	210	4.75	2.14 U	15.79 U	0.18	176.92	4.42	7.06	1.03	0.12 U
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	6.25	4.23 U	31.60 U	0.23	230.77	5.74	8.24	1.29	0.12 U
Benzo(ghi)perylene	mg/kg OC	31	78	3.75	2.14 U	15.79 U	0.16	108	1.71	4.47	0.63	0.12 U
Chrysene	mg/kg OC	110	460	5.00	0.69	7.90 U	0.15	207.69	4.73	6.47	0.91	0.12 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	0.83	2.14 U	15.79 U	0.02	27.31	0.43	1.06	0.26 U	0.12 U
Fluoranthene	mg/kg OC	160	1,200	11.67	2.35	7.90 U	0.41	423.08	0.085	17.06	2.31	0.14
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	2.67	2.14 U	15.79 U	0.094	88	1.63	3.41	0.51	0.12 U
Pyrene	mg/kg OC	1,000	1,400	15.83	2.35	15.79 U	0.40	500.00	13.18	19.41	2.31	0.14
Total HPAH	mg/kg OC	960	5,300	54.92	6.16	31.58 U	1.82	1,950.39	36.33	73.65	9.94	0.27
LPAH (Dry Weight)												
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	2,100	890	47	37	630	150	460	480	1.5 U
Acenaphthene	µg/kg	500	500	4,400	80	30 U	57	1,600	120	360	95	1.5 U
Acenaphthylene	µg/kg	1,300	1,300	1,500	66	30 U	55	1,200	110	420	330	1.5 U
Anthracene	µg/kg	960	960	1,100	41 U	30 U	68	3,500	360	610	150	1.5 U
Fluorene	µg/kg	540	540	3,600	41 U	30 U	56	1,800	120	450	140	1.5 U
Naphthalene	µg/kg	2,100	2,100	990	410	36	210	960	160	5,000	4,100	2.3
Phenanthrene	µg/kg	1,500	1,500	13,000	99	30 U	330	11,000	960	2,500	670	2.8
Total LPAH	µg/kg	5,200	5,200	26,690	1,545	83	813	20,690	1,980	9,800	5,965	5.1
HPAH (Dry Weight)												
Benzo(a)anthracene	µg/kg	1,300	1,600	500	29 J	30 U	110	4,900	570	1,100	330	1.5 U
Benzo(a)pyrene	µg/kg	1,600	3,000	570	81 U	60 U	110	4,600	570	1,200	360	1.5 U
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	750	160 U	120 U	140	6,000	740	1,400	450	1.5 U
Benzo(ghi)perylene	µg/kg	670	720	450	81 U	60 U	100	2,800	220	760	220	1.5 U
Chrysene	µg/kg	1,400	2,800	600	26 J	30 U	88	5,400	610	1,100	320	1.5 U
Dibenzo(a,h)anthracene	µg/kg	230	540	100	81 U	60 U	12	710	55	180	91 U	1.5 U
Fluoranthene	µg/kg	1,700	2,500	1,400	89	30 U	250	11,000	11	2,900	810	1.7
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	320	81 U	60 U	57	2,300	210	580	180	1.5 U
Pyrene	µg/kg	2,600	3,300	1,900	89	60 U	240	13,000	1,700	3,300	810	1.7
Total HPAH	µg/kg	12,000	17,000	6,590	233	120 U	1,107	50,710	4,686	12,520	3,480	3.4
cPAH TEQ (Dry Weight)												
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	743 T	59.76 T	43.65 U	142.78 T	6,045 T	733.6 T	1,537 T	463.75 T	1.06 U
Chlorinated Organics (OC Normalized)												
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.065 U	0.040 U	0.29 U	0.024 U	0.046 U	0.028 U	0.022 U	0.021 U	0.19 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.065 U	0.040 U	0.29 U	0.012 U	0.046 U	0.014 U	0.022 U	0.021 U	0.097 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.065 U	0.040 U	0.29 U	0.012 U	0.046 U	0.014 U	0.022 U	0.021 U	0.097 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.065 U	0.040 U	0.29 U	0.012 U	0.046 U	0.014 U	0.022 U	0.021 U	0.097 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.026 U	0.087 U	0.63 U	0.009 U	0.065 U	0.019 U	0.035 U	0.027 U	0.12 U
Chlorinated Organics (Dry Weight)												
1,2,4-Trichlorobenzene	µg/kg	31	51	7.8 U	1.5 U	1.1 UJ	14.6 U	1.2 U	3.6 U	3.8 U	7.2 U	2.4 U
1,2-Dichlorobenzene	µg/kg	35	50	7.8 U	1.5 U	1.1 U	7.3 U	1.2 U	1.8 U	3.8 U	7.2 U	1.2 U
1,3-Dichlorobenzene	µg/kg	NE	NE	7.8 U	1.5 U	1.1 U	7.3 U	1.2 U	1.8 U	3.8 U	7.2 U	1.2 U
1,4-Dichlorobenzene	µg/kg	110	120	7.8 U	1.5 U	1.1 UJ	7.3 U	1.2 U	1.8 U	3.8 U	7.2 U	1.2 U
Hexachlorobenzene	µg/kg	22	70	3.1 U	3.3 U	2.4 U	5.2 U	1.7 U	2.4 U	5.9 U	9.6 U	1.5 U

Analyte	Units	Location ID		COB-SC-01				COB-SC-02				
		Sample ID		COB-SC-01-00-02	COB-SC-01-02-04	COB-SC-01-04-06	COB-SC-01-10.5-12	COB-SC-02-00-02	COB-SC-02-02-04	COB-SC-02-04-06	COB-SC-02-08-10	COB-SC-02-12.5-14.5
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/28/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	10.5 - 12	0 - 2	2 - 4	4 - 6	8 - 10	12.5 - 14.5
		SCO/LAET[1]	CSL/2LAET[1]									
Phthalates (OC Normalized)												
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	0.67 U	2.14 U	15.79 U	0.009 U	7.69	0.19	3.29	0.26 U	0.12 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.58	0.16 U	3.16	0.009 U	1.23	0.26	0.49	0.027 U	0.12 U
Dibutylphthalate	mg/kg OC	220	1,700	0.33 U	1.09 U	7.90 U	0.086 U	1.12 U	0.68	0.27 U	0.13 U	0.77 U
Diethylphthalate	mg/kg OC	61	110	0.33 U	1.09 U	7.90 U	0.016 U	1.12 U	0.12	0.27 U	0.13 U	0.25 U
Dimethylphthalate	mg/kg OC	53	53	0.33 U	1.09 U	7.90 U	0.25	1.12 U	0.019 U	0.27 U	0.13 U	0.12 U
Di-n-octylphthalate	mg/kg OC	58	4,500	1.33 U	4.23 U	31.60 U	0.009 U	4.62 U	0.85	1.06 U	0.51 U	0.12 U
Phthalates (Dry Weight)												
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	80 U	81 U	60 U	5.2 U	200	25	560	91 U	1.5 U
Butylbenzylphthalate	µg/kg	63	900	70	5.9 U	12	5.2 U	32	34	84	9.6 U	1.5 U
Dibutylphthalate	µg/kg	1,400	1,400	40 U	41 U	30 U	52 U	29 U	88	45 U	45 U	9.5 U
Diethylphthalate	µg/kg	200	>200	40 U	41 U	30 U	10 U	29 U	16	45 U	45 U	3.1 U
Dimethylphthalate	µg/kg	71	160	40 U	41 U	30 U	150	29 U	2.4 U	45 U	45 U	1.5 U
Di-n-octylphthalate	µg/kg	6,200	6,200	160 U	160 U	120 U	5.2 U	120 U	110	180 U	180 U	1.5 U
Miscellaneous Extractables (OC Normalized)												
Dibenzofuran	mg/kg OC	15	58	9.17	1.09 U	7.90 U	0.048	29.62	0.4	1.71	0.37	0.15
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.026 U	0.087 U	0.632 U	0.009 U	0.065 U	0.019 U	0.035 U	0.027 U	0.12 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.26 U	0.87 U	0.63 U	0.009 U	0.65 U	0.019 U	0.35 U	0.027 U	0.12 U
Miscellaneous Extractables (Dry Weight)												
Dibenzofuran	µg/kg	540	700	1,100	41 U	30 U	29	770	52	290	130	1.9
Hexachlorobutadiene	µg/kg	11	120	3.1 U	3.3 U	2.4 U	5.2 U	1.7 U	2.4 U	5.9 U	9.6 U	1.5 U
n-Nitrosodiphenylamine	µg/kg	28	40	31 UJ	33 U	2.4 UJ	5.2 U	17 UJ	2.4 U	59 UJ	9.6 U	1.5 U
Benzoic acid	µg/kg	650	650	180 UJ	120 U	71 UJ	100 U	200 UJ	49 U	270 UJ	460 U	31 U
Benzyl alcohol	µg/kg	57	73	80 U	81 U	60 U	5.2 U	59 U	6.9	91 U	91 U	1.5 U
Phenol (Dry Weight)												
2,4-Dimethylphenol	µg/kg	29	29	8.5 J	8.1 J	2.4 UJ	5.2 U	32 J	24 J	17 J	21 J	1.5 U
o-Cresol (2-methylphenol)	µg/kg	63	63	4.8	4.6	2.4 U	6.7	22	5.2	31	22	1.5 U
p-Cresol (4-methylphenol)	µg/kg	670	670	40 U	61	30 U	270	110	17	440	290	1.9
Pentachlorophenol	µg/kg	100	690	3,700	4,000	440	74 J	460	310 J	350 J	360 U	1.5 U
Phenol	µg/kg	420	1,200	180	41 U	89	430	95	9.7	290	210	5.2
Metals												
Mercury	mg/kg	0.41	0.59	0.073	–	–	–	0.21	–	–	–	–
Non-SMS SVOCs												
Hexachloroethane	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		COB-SC-03				COB-SC-04				
		Sample ID		COB-SC-03-00-02	COB-SC-03-02-04	COB-CS-03-04-06	COB-SC-03-9.5-11.55	COB-SC-04-00-02	COB-SC-04-18-20[3]	COB-SC-04-02-04	COB-SC-04-04-06	COB-SC-04-11-13
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	9.5 - 11.5	0 - 2	0 - 2	2 - 4	4 - 6	11 - 13
		SCO/LAET[1]	CSL/2LAET[1]									
Conventional Parameters												
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	47.6	46.9	47.1	60.6	38.7	46.7	54.6	67.8	80.6
Total organic carbon	Percent	NE	NE	4.7	6.85	5.2	5.5	7.1	6.1	3.73	1.3	0.503
Petroleum Hydrocarbons (Dry Weight)												
Diesel-range hydrocarbons	mg/kg	NE	NE	17 U	500	16 U	13 U	21 U	17 U	300	12 U	9.4 U
Oil-range hydrocarbons	mg/kg	NE	NE	160	1,100	160	90	320	180	700	29 U	24 U
Total petroleum hydrocarbons	mg/kg	260	NE	160	1,600	160	90	320	180	1,000	29 U	24 U
Dioxin/Furans (Dry Weight)												
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	8,280	–	1,410	173	21,700	21,500	–	819	–
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	1,940	–	313	38	5,090	5330	–	166	–
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	127	–	19	2.2	325	313	–	9.8	–
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	40	–	4.9	1.8 J	91	96	–	8.4	–
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	89 J	–	25	2.6	258 J	239 J	–	8.4	–
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	272	–	48	6.8	653	611	–	35	–
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	29 J	–	7.0	1.1 J	76	69 J	–	2.8	–
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	84	–	10	2.7	193	193	–	12	–
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	29 J	–	8.8	0.7	81	65	–	2.6	–
1,2,3,7,8-PeCDD	ng/kg	NE	NE	20	–	3.4 J	1.4	43 J	41	–	5.4	–
1,2,3,7,8-PeCDF	ng/kg	NE	NE	15 J	–	5.2 J	1.3 U	36	31 J	–	1.4 J	–
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	60	–	13	1.6 J	154	142	–	5.5	–
2,3,4,7,8-PeCDF	ng/kg	NE	NE	15	–	5.7	1.2	35	31	–	1.4	–
2,3,7,8-TCDD	ng/kg	NE	NE	3.2	–	1.1	0.6 U	4.6	5	–	0.6 U	–
2,3,7,8-TCDF	ng/kg	NE	NE	15	–	4.3	2.4	16	15	–	1	–
OCDD	ng/kg	NE	NE	94,600	–	16,100 J	1,810	235,000 J	253,000 J	–	9,160 J	–
OCDF	ng/kg	NE	NE	9,810	–	980	167	19,700	26,400	–	575	–
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	225	–	41	6.5	559	554	–	26	–
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	NA	–	NA	6.8	NA	NA	–	27	–
LPAH (OC Normalized)												
2-Methylnaphthalene	mg/kg OC	38	64	1.19	0.29	0.90 U	0.73 U	1.41	1.97	0.38	2.77 U	5.77 U
Acenaphthene	mg/kg OC	16	57	0.92 U	0.18	0.90 U	0.73 U	1.04	4.26	1.02	2.77 U	5.77 U
Acenaphthylene	mg/kg OC	66	66	1.021	0.95	0.90 U	0.73 U	1.83	1.80	1.26	2.77 U	5.77 U
Anthracene	mg/kg OC	220	1,200	1.77	0.58	0.90 U	0.73 U	2.25	2.62	3.75	2.77 U	5.77 U
Fluorene	mg/kg OC	23	79	0.92 U	0.38	0.90 U	0.73 U	1.69	5.25	1.10	2.77 U	5.77 U
Naphthalene	mg/kg OC	99	170	1.87	1.61	2.31	3.45	2.25	1.97	1.05	2.77 U	5.77 U
Phenanthrene	mg/kg OC	100	480	3.19	2.92	0.90 U	1.78	8.31	22.95	10.46	2.77 U	5.77 U
Total LPAH	mg/kg OC	370	780	9.04	6.91	2.31	5.24	18.79	40.82	19.01	2.77 U	5.77 U

Analyte	Units	Location ID		COB-SC-03				COB-SC-04				
		Sample ID		COB-SC-03-00-02	COB-SC-03-02-04	COB-CS-03-04-06	COB-SC-03-9.5-11.55	COB-SC-04-00-02	COB-SC-04-18-20[3]	COB-SC-04-02-04	COB-SC-04-04-06	COB-SC-04-11-13
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	9.5 - 11.5	0 - 2	0 - 2	2 - 4	4 - 6	11 - 13
		SCO/LAET[1]	CSL/2LAET[1]									
HPAH (OC Normalized)												
Benzo(a)anthracene	mg/kg OC	110	270	**2.98**	**2.34**	**0.98**	**0.98**	**4.37**	**3.77**	**13.14**	2.77 U	5.77 U
Benzo(a)pyrene	mg/kg OC	99	210	1.85 U	**3.80**	1.83 U	1.47 U	**4.51**	**3.61**	**13.41**	5.46 U	11.53 U
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	**5.11**	**4.67**	**2.12**	**2.00**	**7.18**	**5.90**	**16.35**	10.77 U	23.86 U
Benzo(ghi)perylene	mg/kg OC	31	78	1.85 U	**4.23**	1.83 U	1.47 U	**2.68**	**2.13**	**7.24**	5.46 U	11.53 U
Chrysene	mg/kg OC	110	460	**3.62**	**2.48**	**0.90**	**0.85**	**6.62**	**4.59**	**12.33**	2.77 U	5.77 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.85 U	**0.54**	1.83 U	1.47 U	1.24 U	1.51 U	**1.96**	5.46 U	11.53 U
Fluoranthene	mg/kg OC	160	1,200	**8.09**	**4.53**	**2.31**	**2.55**	**10.85**	**11.80**	**17.96**	2.77 U	5.77 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.85	**2.92**	1.83 U	1.47 U	**2.25**	**1.80**	**6.70**	5.46 U	11.53 U
Pyrene	mg/kg OC	1,000	1,400	**8.30**	**4.96**	**2.12**	**2.36**	**9.30**	**10.82**	**24.40**	5.46 U	11.53 U
Total HPAH	mg/kg OC	960	5,300	**28.09**	**30.47**	**8.42**	**8.75**	**47.75**	**44.43**	**113.49**	10.77 U	23.86 U
LPAH (Dry Weight)												
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	**56**	**20**	47 U	40 U	**100**	**120**	**14**	36 U	29 U
Acenaphthene	µg/kg	500	500	43 U	**12**	47 U	40 U	**74**	**260**	**38**	36 U	29 U
Acenaphthylene	µg/kg	1,300	1,300	**48**	**65**	47 U	40 U	**130**	**110**	**47**	36 U	29 U
Anthracene	µg/kg	960	960	**83**	**40**	47 U	40 U	**160**	**160**	**140**	36 U	29 U
Fluorene	µg/kg	540	540	43 U	**26**	47 U	40 U	**120**	**320**	**41**	36 U	29 U
Naphthalene	µg/kg	2,100	2,100	**88**	**110**	**120**	**190**	**160**	**120**	**39**	36 U	29 U
Phenanthrene	µg/kg	1,500	1,500	**150**	**200**	47 U	**98**	**590**	**1,400**	**390**	36 U	29 U
Total LPAH	µg/kg	5,200	5,200	**425**	**473**	**120**	**288**	**1,334**	**2,490**	**709**	36 U	29 U
HPAH (Dry Weight)												
Benzo(a)anthracene	µg/kg	1,300	1,600	**140**	**160**	**51**	**54**	**310**	**230**	**490**	36 U	29 U
Benzo(a)pyrene	µg/kg	1,600	3,000	87 U	**260**	95 U	81 U	**320**	**220**	**500**	71 U	58 U
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	**240**	**320**	**110 J**	**110 J**	**510**	**360**	**610**	140 U	120 U
Benzo(ghi)perylene	µg/kg	670	720	87 U	**290**	95 U	81 U	**190**	**130**	**270**	71 U	58 U
Chrysene	µg/kg	1,400	2,800	**170**	**170**	**47**	**47**	**470**	**280**	**460**	36 U	29 U
Dibenzo(a,h)anthracene	µg/kg	230	540	87 U	**37**	95 U	81 U	88 U	92 U	**73**	71 U	58 U
Fluoranthene	µg/kg	1,700	2,500	**380**	**310**	**120**	**140**	**770**	**720**	**670**	36 U	29 U
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	87 U	**200**	95 U	81 U	**160**	**110**	**250**	71 U	58 U
Pyrene	µg/kg	2,600	3,300	**390**	**340**	**110**	**130**	**660**	**660**	**910**	71 U	58 U
Total HPAH	µg/kg	12,000	17,000	**1,320**	**2,087**	**438**	**481**	**3,390**	**2,710**	**4,233**	140 U	120 U
cPAH TEQ (Dry Weight)												
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	**91.9 T**	**333.4 T**	**65.47 T**	**73.57 T**	**427.1 T**	**297.4 T**	**646.9 T**	51.58 U	42.395 U
Chlorinated Organics (OC Normalized)												
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.06 U	0.082 U	0.046 U	0.029 U	0.042 U	0.041 U	0.08 U	0.092 U	0.219 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.06 U	0.041 U	0.046 U	0.029 U	0.042 U	0.041 U	0.04 U	0.092 U	0.219 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.06 U	0.041 U	0.046 U	0.029 U	0.042 U	0.041 U	0.04 U	0.092 U	0.219 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.06 U	0.041 U	0.046 U	0.029 U	0.042 U	0.041 U	0.04 U	0.092 U	0.219 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.085 U	0.051 U	0.079 U	0.058 U	0.066 U	0.062 U	0.078 U	0.20 U	0.318 U
Chlorinated Organics (Dry Weight)												
1,2,4-Trichlorobenzene	µg/kg	31	51	2.8 U	5.6 U	2.4 U	1.6 U	3 U	2.5 U	3 U	1.2 U	1.1 U
1,2-Dichlorobenzene	µg/kg	35	50	2.8 U	2.8 U	2.4 U	1.6 U	3 U	2.5 U	1.5 U	1.2 U	1.1 U
1,3-Dichlorobenzene	µg/kg	NE	NE	2.8 U	2.8 U	2.4 U	1.6 U	3 U	2.5 U	1.5 U	1.2 U	1.1 U
1,4-Dichlorobenzene	µg/kg	110	120	2.8 U	2.8 U	2.4 U	1.6 U	3 U	2.5 U	1.5 U	1.2 U	1.1 U
Hexachlorobenzene	µg/kg	22	70	4 U	3.5 U	4.1 U	3.2 U	4.7 U	3.8 U	2.9 U	2.6 U	1.6 U

Analyte	Units	Location ID		COB-SC-03				COB-SC-04				
		Sample ID		COB-SC-03-00-02	COB-SC-03-02-04	COB-CS-03-04-06	COB-SC-03-9.5-11.55	COB-SC-04-00-02	COB-SC-04-18-20[3]	COB-SC-04-02-04	COB-SC-04-04-06	COB-SC-04-11-13
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	9.5 - 11.5	0 - 2	0 - 2	2 - 4	4 - 6	11 - 13
		SCO/LAET[1]	CSL/2LAET[1]									
Phthalates (OC Normalized)												
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**4.26**	0.051 U	1.83 U	1.47 U	**7.04**	**5.90**	**1.21**	5.46 U	11.53 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.21 U	0.051 U	0.13 U	0.066 U	**1.55**	**0.39**	0.078 U	0.20 U	0.32 U
Dibutylphthalate	mg/kg OC	220	1,700	0.92 U	0.37 U	0.90 U	0.73 U	**1.69**	0.75 U	0.43 U	2.77 U	5.77 U
Diethylphthalate	mg/kg OC	61	110	0.92 U	0.10 U	0.90 U	0.73 U	0.62 U	0.75 U	0.16 U	2.77 U	5.77 U
Dimethylphthalate	mg/kg OC	53	53	0.92 U	0.05 U	0.90 U	0.73 U	0.62 U	0.75 U	0.078 U	2.77 U	5.77 U
Di-n-octylphthalate	mg/kg OC	58	4,500	3.62 U	**0.39**	3.65 U	2.91 U	2.54 U	2.95 U	**0.43**	10.77 U	23.86 U
Phthalates (Dry Weight)												
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**200**	3.5 U	95 U	81 U	**500**	**360**	**45**	71 U	58 U
Butylbenzylphthalate	µg/kg	63	900	10 UJ	3.5 U	6.6 UJ	3.6 U	**110**	**24 J**	2.9 U	2.6 U	1.6 UJ
Dibutylphthalate	µg/kg	1,400	1,400	43 U	25 U	47 U	40 U	**120**	46 U	16 U	36 U	29 U
Diethylphthalate	µg/kg	200	>200	43 U	7 U	47 U	40 U	44 U	46 U	5.8 U	36 U	29 U
Dimethylphthalate	µg/kg	71	160	43 U	3.5 U	47 U	40 U	44 U	46 U	2.9 U	36 U	29 U
Di-n-octylphthalate	µg/kg	6,200	6,200	170 U	**27**	190 U	160 U	180 U	180 U	**16**	140 U	120 U
Miscellaneous Extractables (OC Normalized)												
Dibenzofuran	mg/kg OC	15	58	0.92 U	**0.23**	0.90 U	0.73 U	**0.65**	**1.49**	**0.43**	2.77 U	5.77 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.085 U	0.051 U	0.079 U	0.058 U	0.066 U	0.062 U	0.078 U	0.2 U	0.32 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.085 U	0.051 U	0.079 U	0.058 U	0.66 U	0.62 U	0.078 U	0.2 U	0.32 U
Miscellaneous Extractables (Dry Weight)												
Dibenzofuran	µg/kg	540	700	43 U	**16**	47 U	40 U	**46**	**91**	**16**	36 U	29 U
Hexachlorobutadiene	µg/kg	11	120	4 U	3.5 U	4.1 U	3.2 U	4.7 U	3.8 U	2.9 U	2.6 U	1.6 U
n-Nitrosodiphenylamine	µg/kg	28	40	4 UJ	3.5 U	4.1 UJ	3.2 U	47 UJ	38 UJ	2.9 U	2.6 U	1.6 UJ
Benzoic acid	µg/kg	650	650	150 UJ	70 U	180 UJ	120 U	390 UJ	190 UJ	58 U	67 U	48 UJ
Benzyl alcohol	µg/kg	57	73	87 U	3.5 U	95 U	81 U	88 U	92 U	2.9 U	71 U	58 U
Phenol (Dry Weight)												
2,4-Dimethylphenol	µg/kg	29	29	4 UJ	3.5 U	**55 J**	**6.8 J**	**19 J**	**12 J**	2.9 U	2.6 U	1.6 UJ
o-Cresol (2-methylphenol)	µg/kg	63	63	4 U	**7.1**	**52**	**6.1**	**15**	**6.8**	2.9 U	2.6 U	1.6 U
p-Cresol (4-methylphenol)	µg/kg	670	670	**150**	**32**	**180**	**97**	**180**	**210**	**12**	36 U	29 U
Pentachlorophenol	µg/kg	100	690	**640**	**10 J**	**320 J**	320 U	**1,000**	**1,600**	**44 J**	290 U	230 U
Phenol	µg/kg	420	1,200	**49**	**8.8**	47 U	40 U	44 U	46 U	**4.7**	36 U	29 U
Metals												
Mercury	mg/kg	0.41	0.59	**1.91**	–	–	–	**0.536**	**1.96**	–	–	–
Non-SMS SVOCs												
Hexachloroethane	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		COB-SC-05				COB-SC-06				
		Sample ID		COB-SC-05-00-02	COB-SC-05-02-04	COB-SC-05-04-06	COB-SC-05-12.2-14.2	COB-SC-06-00-02	COB-SC-06-02-04	COB-SC-06-18-20[4]	COB-SC-06-04-06	COB-SC-06-16-18
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	12.2 - 14.2	0 - 2	2 - 4	2 - 4	4 - 6	16 - 18
		SCO/LAET[1]	CSL/2LAET[1]									
Conventional Parameters												
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	44.3	47.6	48.0	77.9	48.7	52.2	51.1	79.9	80.1
Total organic carbon	Percent	NE	NE	4.7	2.6	2.72	1.05	2.3	3.53	7.5	0.448	0.474
Petroleum Hydrocarbons (Dry Weight)												
Diesel-range hydrocarbons	mg/kg	NE	NE	17 U	16 U	16 U	6.4 U	16 U	15 U	15 U	9.6 U	9.3 U
Oil-range hydrocarbons	mg/kg	NE	NE	44 U	40	220	13 U	40 U	130	120	24 U	23 U
Total petroleum hydrocarbons	mg/kg	260	NE	44 U	40	220	13 U	40 U	130	120	24 U	23 U
Dioxin/Furans (Dry Weight)												
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	2,320	711	2,600	–	686	3,640	3,980	15	–
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	410	205	1,050	–	244	1,160	1,250	5.1	–
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	29	11	51	–	13	69	72	0.3 J	–
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	23	3.7	8.8	–	3.1 J	17	16	0.1 U	–
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	34 J	9.4	23	–	11	34 J	37	0.2 J	–
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	91	28	87	–	26	113	122	0.6 J	–
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	11 J	3.4	8.6	–	3.8 J	13	13	0.04 U	–
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	36	8.2	20	–	7.4	37	36	0.2 J	–
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	11 J	2.8	5.1	–	3.9 J	9.1	9.6	0.1 U	–
1,2,3,7,8-PeCDD	ng/kg	NE	NE	9.9	2.7	5.6	–	2.44 J	10	9.5	0.1 J	–
1,2,3,7,8-PeCDF	ng/kg	NE	NE	7.7 J	2.2	2.5	–	2 J	4.8 J	4.36 J	0.04 U	–
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	18	6.5	20	–	7.5	29	30	0.1 U	–
2,3,4,7,8-PeCDF	ng/kg	NE	NE	7.8	2.3	3.0	–	2.0 J	5.1	5.2	0.1 U	–
2,3,7,8-TCDD	ng/kg	NE	NE	1.5 J	0.6 U	1.3 U	–	0.7 J	1.7 U	1.9	0.1 U	–
2,3,7,8-TCDF	ng/kg	NE	NE	19	3.8	5.64	–	2.5	7.6	7.6	0.1 U	–
OCDD	ng/kg	NE	NE	25,300	6,600 J	33,100 J	–	6,120 J	36,900	43,600	120	–
OCDF	ng/kg	NE	NE	1,470	703	5,230	–	722	5,510	6,160	15	–
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	74	21	73	–	22	99	108	0.4	–
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	NA	22	73	–	NA	100	NA	0.5	–
LPAH (OC Normalized)												
2-Methylnaphthalene	mg/kg OC	38	64	0.60	1.85 U	3.16	0.20 U	2.17 U	2.24	1.05	6.47 U	6.12 U
Acenaphthene	mg/kg OC	16	57	0.98 U	1.85 U	1.80 U	0.20 U	2.17 U	1.28 U	0.63 U	6.47 U	6.12 U
Acenaphthylene	mg/kg OC	66	66	0.98 U	1.85 U	1.80 U	0.20 U	2.17 U	1.39	1.24	6.47 U	6.12 U
Anthracene	mg/kg OC	220	1,200	0.98 U	1.85 U	1.80 U	0.20 U	2.17 U	1.84	1.47	6.47 U	6.12 U
Fluorene	mg/kg OC	23	79	0.98 U	1.85 U	1.29	0.20 U	2.17 U	1.42	0.8	6.47 U	6.12 U
Naphthalene	mg/kg OC	99	170	0.98 U	2.65	3.20	0.20 U	2.17 U	5.95	2.93	6.47 U	6.12 U
Phenanthrene	mg/kg OC	100	480	1.98	2.54	4.78	0.20 U	2.17 U	5.38	5.33	6.47 U	6.12 U
Total LPAH	mg/kg OC	370	780	2.57	5.19	12.43	0.20 U	2.17 U	18.22	12.83	6.47 U	6.12 U

Analyte	Units	Location ID		COB-SC-05				COB-SC-06				
		Sample ID		COB-SC-05-00-02	COB-SC-05-02-04	COB-SC-05-04-06	COB-SC-05-12.2-14.2	COB-SC-06-00-02	COB-SC-06-02-04	COB-SC-06-18-20[4]	COB-SC-06-04-06	COB-SC-06-16-18
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	12.2 - 14.2	0 - 2	2 - 4	2 - 4	4 - 6	16 - 18
		SCO/LAET[1]	CSL/2LAET[1]									
HPAH (OC Normalized)												
Benzo(a)anthracene	mg/kg OC	110	270	**2.34**	1.85 U	**1.95**	0.20 U	2.17 U	**2.61**	**3.87**	6.47 U	6.12 U
Benzo(a)pyrene	mg/kg OC	99	210	1.96 U	3.69 U	3.64 U	0.20 U	4.35 U	2.55 U	**3.73**	12.95 U	12.24 U
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	**3.62**	7.31 U	7.35 U	0.20 U	8.70 U	5.10 U	**4.67**	26.79 U	25.32 U
Benzo(ghi)perylene	mg/kg OC	31	78	1.96 U	3.69 U	3.64 U	0.20 U	4.35 U	2.55 U	**2.13**	12.95 U	12.24 U
Chrysene	mg/kg OC	110	460	**2.98**	1.85 U	**1.91**	0.20 U	2.17 U	**2.83**	**3.47**	6.47 U	6.12 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.96 U	3.69 U	3.64 U	0.20 U	4.35 U	2.55 U	**0.69**	12.95 U	12.24 U
Fluoranthene	mg/kg OC	160	1,200	**4.68**	**3.85**	**6.99**	0.20 U	2.17 U	**8.78**	**8.00**	6.47 U	6.12 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.96 U	3.69 U	3.64 U	0.20 U	4.35 U	2.55 U	**1.60**	12.95 U	12.24 U
Pyrene	mg/kg OC	1,000	1,400	**5.32**	**3.85**	**6.25**	0.20 U	4.35 U	**7.37**	**9.47**	12.95 U	12.24 U
Total HPAH	mg/kg OC	960	5,300	**18.94**	**7.69**	**17.10**	0.20 U	8.70 U	**21.59**	**37.63**	26.79 U	25.32 U
LPAH (Dry Weight)												
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	**28 J**	48 U	**86**	2.1 U	50 U	**79**	**79**	29 U	29 U
Acenaphthene	µg/kg	500	500	46 U	48 U	49 U	2.1 U	50 U	45 U	47 U	29 U	29 U
Acenaphthylene	µg/kg	1,300	1,300	46 U	48 U	49 U	2.1 U	50 U	**49**	**93**	29 U	29 U
Anthracene	µg/kg	960	960	46 U	48 U	49 U	2.1 U	50 U	**65**	**110**	29 U	29 U
Fluorene	µg/kg	540	540	46 U	48 U	**35 J**	2.1 U	50 U	**50**	**60**	29 U	29 U
Naphthalene	µg/kg	2,100	2,100	46 U	**69**	**87**	2.1 U	50 U	**210**	**220**	29 U	29 U
Phenanthrene	µg/kg	1,500	1,500	**93**	**66**	**130**	2.1 U	50 U	**190**	**400**	29 U	29 U
Total LPAH	µg/kg	5,200	5,200	**121**	**135**	**338**	2.1 UT	50 UT	**643**	**962**	29 U	29 U
HPAH (Dry Weight)												
Benzo(a)anthracene	µg/kg	1,300	1,600	**110**	48 U	**53**	2.1 U	50 U	**92**	**290**	29 U	29 U
Benzo(a)pyrene	µg/kg	1,600	3,000	92 U	96 U	99 U	2.1 U	100 U	90 U	**280**	58 U	58 U
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	**170 J**	190 U	200 U	2.1 U	200 U	180 U	**350**	120 U	120 U
Benzo(ghi)perylene	µg/kg	670	720	92 U	96 U	99 U	2.1 U	100 U	90 U	**160**	58 U	58 U
Chrysene	µg/kg	1,400	2,800	**140**	48 U	**52**	2.1 U	50 U	**100**	**260**	29 U	29 U
Dibenzo(a,h)anthracene	µg/kg	230	540	92 U	96 U	99 U	2.1 U	100 U	90 U	**52 J**	58 U	58 U
Fluoranthene	µg/kg	1,700	2,500	**220**	**100**	**190**	2.1 U	50 U	**310**	**600**	29 U	29 U
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	92 U	96 U	99 U	2.1 U	100 U	90 U	**120**	58 U	58 U
Pyrene	µg/kg	2,600	3,300	**250**	**100**	**170**	2.1 U	100 U	**260**	**710**	58 U	58 U
Total HPAH	µg/kg	12,000	17,000	**890**	**200**	**465**	2.1 U	200 U	**762**	**2,822**	120 U	120 U
cPAH TEQ (Dry Weight)												
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	**84.6 T**	69.74 U	**75.22 T**	1.4805 U	72.75 U	**73.2 T**	**363.8 T**	42.395 U	42.395 U
Chlorinated Organics (OC Normalized)												
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.062 U	0.092 U	0.099 U	0.19 U	0.13 U	0.065 U	0.033 U	0.22 U	0.21 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.062 U	0.092 U	0.099 U	0.095 U	0.13 U	0.065 U	0.033 U	0.22 U	0.21 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.062 U	0.092 U	0.099 U	0.095 U	0.13 U	0.065 U	0.033 U	0.22 U	0.21 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.062 U	0.092 U	0.099 U	0.095 U	0.13 U	0.065 U	0.033 U	0.22 U	0.21 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.094 U	0.146 U	0.14 U	0.20 U	0.17 U	0.10 U	0.048 U	0.56 U	0.34 U
Chlorinated Organics (Dry Weight)												
1,2,4-Trichlorobenzene	µg/kg	31	51	2.9 U	2.4 U	2.7 U	2 U	3 U	2.3 U	2.5 U	0.99 U	1 UJ
1,2-Dichlorobenzene	µg/kg	35	50	2.9 U	2.4 U	2.7 U	1 U	3 U	2.3 U	2.5 U	0.99 U	1 U
1,3-Dichlorobenzene	µg/kg	NE	NE	2.9 U	2.4 U	2.7 U	1 U	3 U	2.3 U	2.5 U	0.99 U	1 U
1,4-Dichlorobenzene	µg/kg	110	120	2.9 U	2.4 U	2.7 U	1 U	3 U	2.3 U	2.5 U	0.99 U	1 UJ
Hexachlorobenzene	µg/kg	22	70	4.4 U	3.8 U	3.8 U	2.1 U	4 U	3.6 U	3.6 U	2.5 U	1.6 U

Analyte	Units	Location ID		COB-SC-05				COB-SC-06				
		Sample ID		COB-SC-05-00-02	COB-SC-05-02-04	COB-SC-05-04-06	COB-SC-05-12.2-14.2	COB-SC-06-00-02	COB-SC-06-02-04	COB-SC-06-18-20[4]	COB-SC-06-04-06	COB-SC-06-16-18
		Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	12.2 - 14.2	0 - 2	2 - 4	2 - 4	4 - 6	16 - 18
		SCO/LAET[1]	CSL/2LAET[1]									
Phthalates (OC Normalized)												
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**2.13**	3.69 U	3.64 U	0.20 U	4.35 U	2.55 U	1.24 U	12.95 U	12.24 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.28 U	0.18 U	0.14 U	0.20 U	0.24 U	0.34 U	**0.28**	0.56 U	0.34 U
Dibutylphthalate	mg/kg OC	220	1,700	0.98 U	1.85 U	2.32 U	0.75 U	2.17 U	1.59 U	0.79 U	6.47 U	6.12 U
Diethylphthalate	mg/kg OC	61	110	0.98 U	1.85 U	1.80 U	0.40 U	2.17 U	1.28 U	0.63 U	6.47 U	**1.54**
Dimethylphthalate	mg/kg OC	53	53	0.98 U	1.85 U	1.80 U	0.20 U	2.17 U	1.28 U	0.63 U	6.47 U	6.12 U
Di-n-octylphthalate	mg/kg OC	58	4,500	3.83 U	7.31 U	7.35 U	0.20 U	8.70 U	5.10 U	**1.60**	26.79 U	25.32 U
Phthalates (Dry Weight)												
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**100**	96 U	99 U	2.1 U	100 U	90 U	93 U	58 U	58 U
Butylbenzylphthalate	µg/kg	63	900	13 UJ	4.7 U	3.8 U	2.1 U	5.5 UJ	12 UJ	**21**	2.5 U	1.6 U
Dibutylphthalate	µg/kg	1,400	1,400	46 U	48 U	63 U	7.9 U	50 U	56 U	59 U	29 U	29 U
Diethylphthalate	µg/kg	200	>200	46 U	48 U	49 U	4.2 U	50 U	45 U	47 U	29 U	**7.3 J**
Dimethylphthalate	µg/kg	71	160	46 U	48 U	49 U	2.1 U	50 U	45 U	47 U	29 U	29 U
Di-n-octylphthalate	µg/kg	6,200	6,200	180 U	190 U	200 U	2.1 U	200 U	180 U	**120 J**	120 U	120 U
Miscellaneous Extractables (OC Normalized)												
Dibenzofuran	mg/kg OC	15	58	0.98 U	1.85 U	1.80 U	0.2 U	2.17 U	1.28 U	0.63 U	6.47 U	6.12 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.094 U	0.15 U	0.14 U	0.2 U	0.17 U	0.102 U	0.048 U	0.56 U	0.34 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	0.094 U	0.15 U	0.77 U	0.2 U	0.17 U	0.65 U	0.48 U	0.56 U	0.34 U
Miscellaneous Extractables (Dry Weight)												
Dibenzofuran	µg/kg	540	700	46 U	48 U	49 U	2.1 U	50 U	45 U	47 U	29 U	29 U
Hexachlorobutadiene	µg/kg	11	120	4.4 U	3.8 U	3.8 U	2.1 U	4 U	3.6 U	3.6 U	2.5 UJ	1.6 U
n-Nitrosodiphenylamine	µg/kg	28	40	4.4 UJ	3.8 U	21 U	2.1 U	4 UJ	23 UJ	36 UJ	2.5 UJ	1.6 UJ
Benzoic acid	µg/kg	650	650	170 UJ	160 U	190 U	–	220 UJ	200 UJ	240 UJ	170 UJ	130 UJ
Benzyl alcohol	µg/kg	57	73	92 U	96 U	99 U	2.1 U	100 U	90 U	93 U	58 U	58 U
Phenol (Dry Weight)												
2,4-Dimethylphenol	µg/kg	29	29	4.4 UJ	**4.6 J**	**4.1 J**	2.1 U	**4.8 J**	**17 J**	**12 J**	2.5 UJ	1.6 UJ
o-Cresol (2-methylphenol)	µg/kg	63	63	4.4 U	3.8 U	3.8 U	2.1 U	4 U	**8.5**	**9.1**	2.5 UJ	1.6 U
p-Cresol (4-methylphenol)	µg/kg	670	670	**130**	**79**	**210**	2.1 U	50 U	**200**	**200**	29 U	29 U
Pentachlorophenol	µg/kg	100	690	**360 J**	380 U	390 U	2.1 U	400 U	**370**	**340 J**	230 U	230 U
Phenol	µg/kg	420	1,200	46 U	48 U	49 U	2.1 U	50 U	45 U	47 U	29 U	29 U
Metals												
Mercury	mg/kg	0.41	0.59	**1.6**	–	–	–	**0.372**	–	–	–	–
Non-SMS SVOCs												
Hexachloroethane	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	--	--	--	--	--	--	--	--	--

Analyte	Units	Location ID		COB-SC-07				COB-SC-08		
		Sample ID		COB-SC-07-00-02	COB-SC-07-02-04	COB-SC-07-04-06	COB-SC-07-08-10	COB-SC-08-00-02	COB-SC-08-04-06	COB-SC-08-10-12
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/3/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	8 - 10	0 - 2	4 - 6	10 - 12
		SCO/LAET[1]	CSL/2LAET[1]							
Conventional Parameters										
Ammonia	mg/kg	NE	NE	–	–	–	–	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–	–	–	–	–
Total solids	Percent	NA	NA	84.4	85.8	85.4	84.4	84.5	22.2	78.6
Total organic carbon	Percent	NE	NE	0.292	1.16	0.688	0.0597	1.4	50 J	0.564
Petroleum Hydrocarbons (Dry Weight)										
Diesel-range hydrocarbons	mg/kg	NE	NE	9 U	390	230	9.2 U	9.3 U	35 U	10 U
Oil-range hydrocarbons	mg/kg	NE	NE	23 U	23 U	33	23 U	34	390	25 U
Total petroleum hydrocarbons	mg/kg	260	NE	23 U	390	263	23 U	34	390	25 U
Dioxin/Furans (Dry Weight)										
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	562	16,200	2,860	10.9	1,830	748	4.1 J
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	164	6,200	777	4.9 U	359	147	0.9 J
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	10	439	53	1.4 U	23	10	0.4 U
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	0.9 J	19 J	2.2	0.4 U	25	3.2 J	0.4 U
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	4.8 J	468	57	1.0 U	21 J	6.2	0.2 U
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	14	899	108	0.4 J	70	18	0.1 U
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	1.7 J	105	13	0.6 U	7.9 J	2.9 J	0.2 U
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	2.4 J	68	7.0	0.2 J	27	7.1	0.3 U
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	1.7 J	161	21	0.4 J	7.2	2.5 J	0.1 U
1,2,3,7,8-PeCDD	ng/kg	NE	NE	0.2 J	9.2	1.1	0.1 J	14	1.5 J	0.2 U
1,2,3,7,8-PeCDF	ng/kg	NE	NE	0.5 J	65	8.4	0.2 U	4.0 J	1.0 U	0.05 U
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	3.2 J	195	23	0.6 U	15	5.4	0.4 U
2,3,4,7,8-PeCDF	ng/kg	NE	NE	0.5 J	82	10	0.1 U	4.0 J	0.9 J	0.1 U
2,3,7,8-TCDD	ng/kg	NE	NE	0.04 J	1.2	0.2	0.4 U	6.5	0.4 U	0.3 U
2,3,7,8-TCDF	ng/kg	NE	NE	0.1 U	21	2.4	0.1 U	2.0	1.4 U	0.1 U
OCDD	ng/kg	NE	NE	5,000 J	236,000 J	28,000 J	81	15,600 J	7,990 J	31
OCDF	ng/kg	NE	NE	603	36,000	4,250	11	1,480	767	2.9 J
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	12	541	75	0.4	67	18	0.1
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	12	NA	NA	0.8	NA	18	0.5
LPAH (OC Normalized)										
2-Methylnaphthalene	mg/kg OC	38	64	12.33	2.33 U	3.20	68.68	2.5	24.00	4.79 U
Acenaphthene	mg/kg OC	16	57	9.59 U	250.0	40.70	46.90 U	2.00 U	10.00	4.79 U
Acenaphthylene	mg/kg OC	66	66	9.59 U	76.72	13.52	46.90 U	2.00 U	1.60	4.79 U
Anthracene	mg/kg OC	220	1,200	9.59 U	32.76	7.27	46.90 U	5.86	0.36	4.79 U
Fluorene	mg/kg OC	23	79	9.59 U	198.28	26.16	46.90 U	2.79	5.20	4.79 U
Naphthalene	mg/kg OC	99	170	9.59 U	26.72	3.05	46.90 U	2	17.20	4.79 U
Phenanthrene	mg/kg OC	100	480	16.44	603.45	100.29	46.90 U	23.57	1.44	4.79 U
Total LPAH	mg/kg OC	370	780	28.77	1,187.93	194.19	68.68	36.71	59.80	4.79 U

Analyte	Units	Location ID		COB-SC-07				COB-SC-08		
		Sample ID		COB-SC-07-00-02	COB-SC-07-02-04	COB-SC-07-04-06	COB-SC-07-08-10	COB-SC-08-00-02	COB-SC-08-04-06	COB-SC-08-10-12
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/3/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	8 - 10	0 - 2	4 - 6	10 - 12
		SCO/LAET[1]	CSL/2LAET[1]							
HPAH (OC Normalized)										
Benzo(a)anthracene	mg/kg OC	110	270	9.59 U	**30.17**	**2.04**	46.90 U	**10.00**	**0.32**	4.79 U
Benzo(a)pyrene	mg/kg OC	99	210	18.84 U	**28.45**	**1.60**	93.80 U	**9.29**	**0.34**	9.75 U
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	37.67 U	**46.55**	**2.47**	184.26 U	**12.86**	**0.46**	19.50 U
Benzo(ghi)perylene	mg/kg OC	31	78	18.84 U	**15.52**	**1.11**	93.80 U	**6.64**	**0.20**	9.75 U
Chrysene	mg/kg OC	110	460	9.59 U	**32.76**	**2.76**	46.90 U	**10.00**	**0.30**	4.79 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	18.84 U	**5.86**	0.28 U	93.80 U	**2.14**	0.18 U	9.75 U
Fluoranthene	mg/kg OC	160	1,200	9.59 U	**79.31**	**6.98**	46.90 U	**23.57**	**1.04**	4.79 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	18.84 U	**13.79**	**0.83**	93.80 U	**4.93**	**0.17**	9.75 U
Pyrene	mg/kg OC	1,000	1,400	18.84 U	**103.45**	**10.76**	93.80 U	**22.86**	**1.14**	9.75 U
Total HPAH	mg/kg OC	960	5,300	37.67 U	**355.86**	**28.53**	184.26 U	**102.29**	**3.97**	19.50 U
LPAH (Dry Weight)										
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–	–	–	–	–
2-Methylnaphthalene	µg/kg	670	670	**36**	27 U	**22**	**41**	**35**	**12,000**	27 U
Acenaphthene	µg/kg	500	500	28 U	**2,900**	**280**	28 U	28 U	**5,000**	27 U
Acenaphthylene	µg/kg	1,300	1,300	28 U	**890**	**93**	28 U	28 U	**800**	27 U
Anthracene	µg/kg	960	960	28 U	**380**	**50**	28 U	**82**	**180**	27 U
Fluorene	µg/kg	540	540	28 U	**2,300**	**180**	28 U	**39**	**2,600**	27 U
Naphthalene	µg/kg	2,100	2,100	28 U	**310**	**21**	28 U	**28 J**	**8,600**	27 U
Phenanthrene	µg/kg	1,500	1,500	**48**	**7,000**	**690**	28 U	**330**	**720**	27 U
Total LPAH	µg/kg	5,200	5,200	**84**	**13,780**	**1,336**	**41**	**514**	**29,900**	27 U
HPAH (Dry Weight)										
Benzo(a)anthracene	µg/kg	1,300	1,600	28 U	**350**	**14**	28 U	**140**	**160**	27 U
Benzo(a)pyrene	µg/kg	1,600	3,000	55 U	**330**	**11**	56 U	**130**	**170**	55 U
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	110 U	**540**	**17**	110 U	**180**	**230**	110 U
Benzo(ghi)perylene	µg/kg	670	720	55 U	**180**	**7.6**	56 U	**93**	**100**	55 U
Chrysene	µg/kg	1,400	2,800	28 U	**380**	**19**	28 U	**140**	**150**	27 U
Dibenzo(a,h)anthracene	µg/kg	230	540	55 U	**68**	1.9 U	56 U	**30 J**	91 U	55 U
Fluoranthene	µg/kg	1,700	2,500	28 U	**920**	**48**	28 U	**330**	**520**	27 U
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	55 U	**160**	**5.7**	56 U	**69**	**83 J**	55 U
Pyrene	µg/kg	2,600	3,300	55 U	**1,200**	**74**	56 U	**320**	**570**	55 U
Total HPAH	µg/kg	12,000	17,000	110 U	**4,128**	**196.3**	110 U	**1,432**	**1,983**	110 U
cPAH TEQ (Dry Weight)										
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	40.04 U	**445.6 T**	**14.955 T**	40.64 U	**173.3 T**	**223.35 T**	39.985 U
Chlorinated Organics (OC Normalized)										
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.32 U	0.45 U	0.29 U	1.84 U	0.066 U	0.015 U	0.20 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.32 U	0.45 U	0.15 U	1.84 U	0.066 U	0.015 U	0.20 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.32 U	0.45 U	0.15 U	1.84 U	0.066 U	0.015 U	0.20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.32 U	0.45 U	0.15 U	1.84 U	0.066 U	0.015 U	0.20 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.79 U	0.15 U	0.28 U	3.02 U	0.11 U	0.017 U	0.28 U
Chlorinated Organics (Dry Weight)										
1,2,4-Trichlorobenzene	µg/kg	31	51	0.94 U	5.2 U	2 U	1.1 U	0.93 U	7.5 U	1.1 U
1,2-Dichlorobenzene	µg/kg	35	50	0.94 U	5.2 U	1 U	1.1 U	0.93 U	7.5 U	1.1 U
1,3-Dichlorobenzene	µg/kg	NE	NE	0.94 U	5.2 U	1 U	1.1 U	0.93 U	7.5 U	1.1 U
1,4-Dichlorobenzene	µg/kg	110	120	0.94 U	5.2 U	1 U	1.1 U	0.93 U	7.5 U	1.1 U
Hexachlorobenzene	µg/kg	22	70	2.3 U	1.7 U	1.9 U	1.8 U	1.5 U	8.6 U	1.6 U

Analyte	Units	Location ID		COB-SC-07				COB-SC-08		
		Sample ID		COB-SC-07-00-02	COB-SC-07-02-04	COB-SC-07-04-06	COB-SC-07-08-10	COB-SC-08-00-02	COB-SC-08-04-06	COB-SC-08-10-12
		Sample Date		8/28/2012	8/28/2012	8/28/2012	8/28/2012	8/3/2012	8/4/2012	8/4/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6	8 - 10	0 - 2	4 - 6	10 - 12
		SCO/LAET[1]	CSL/2LAET[1]							
Phthalates (OC Normalized)										
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	18.86 U	**15.52**	**7.12**	93.80 U	**7.86**	0.18 U	9.75 U
Butylbenzylphthalate	mg/kg OC	4.9	64	0.79 U	0.28 U	0.28 U	3.02 U	0.22 U	**0.22**	0.28 U
Dibutylphthalate	mg/kg OC	220	1,700	9.59 U	2.33 U	0.96 U	46.90 U	2.00 U	**0.34**	4.79 U
Diethylphthalate	mg/kg OC	61	110	9.59 U	**4.4**	0.55 U	46.90 U	2.00 U	0.09 U	4.79 U
Dimethylphthalate	mg/kg OC	53	53	9.59 U	2.33 U	0.28 U	46.90 U	2.00 U	0.09 U	4.79 U
Di-n-octylphthalate	mg/kg OC	58	4,500	37.67 U	9.48 U	0.28 U	184.26 U	**4.57**	0.36 U	19.50 U
Phthalates (Dry Weight)										
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	55 U	**180**	**49**	56 U	**110**	91 U	55 U
Butylbenzylphthalate	µg/kg	63	900	2.3 U	3.2 U	1.9 U	1.8 U	3.1 U	**110**	1.6 U
Dibutylphthalate	µg/kg	1,400	1,400	28 U	27 U	6.6 U	28 U	28 U	**170**	27 U
Diethylphthalate	µg/kg	200	>200	28 U	**51**	3.8 U	28 U	28 U	46 U	27 U
Dimethylphthalate	µg/kg	71	160	28 U	27 U	1.9 U	28 U	28 U	46 U	27 U
Di-n-octylphthalate	µg/kg	6,200	6,200	110 U	110 U	1.9 U	110 U	**64 J**	180 U	110 U
Miscellaneous Extractables (OC Normalized)										
Dibenzofuran	mg/kg OC	15	58	9.59 U	**64.66**	**14.24**	46.90 U	2 U	**1.72**	4.79 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.79 U	0.15 U	0.28 U	3.02 U	0.11 U	0.017 U	0.28 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	3.29 U	1.47 U	0.28 U	3.02 U	0.15 U	0.17 U	0.28 U
Miscellaneous Extractables (Dry Weight)										
Dibenzofuran	µg/kg	540	700	28 U	**750**	**98**	28 U	28 U	**860**	27 U
Hexachlorobutadiene	µg/kg	11	120	2.3 UJ	1.7 U	1.9 U	1.8 U	1.5 U	8.6 U	1.6 U
n-Nitrosodiphenylamine	µg/kg	28	40	9.6 UJ	17 UJ	1.9 U	1.8 UJ	2.1 UJ	86 UJ	1.6 UJ
Benzoic acid	µg/kg	650	650	77 UJ	72 UJ	38 U	53 UJ	62 UJ	410 UJ	33 UJ
Benzyl alcohol	µg/kg	57	73	55 U	55 U	1.9 U	56 U	57 U	260 U	55 U
Phenol (Dry Weight)										
2,4-Dimethylphenol	µg/kg	29	29	2.3 UJ	1.7 UJ	1.9 U	1.8 UJ	1.5 UJ	**110 J**	1.6 UJ
o-Cresol (2-methylphenol)	µg/kg	63	63	2.3 U	1.7 U	1.9 U	1.8 U	1.5 U	**59**	1.6 U
p-Cresol (4-methylphenol)	µg/kg	670	670	28 U	27 U	1.9 U	28 U	28 U	**210**	27 U
Pentachlorophenol	µg/kg	100	690	220 U	**940**	**100 J**	220 U	**260**	**330 J**	220 U
Phenol	µg/kg	420	1,200	28 U	27 U	**7.6**	28 U	28 U	46 U	27 U
Metals										
Mercury	mg/kg	0.41	0.59	**0.0495**	–	–	–	**0.056**	–	–
Non-SMS SVOCs										
Hexachloroethane	µg/kg	–	–	–	–	–	–	–	–	–
2,4,5-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–
2,4,6-Trichlorophenol	µg/kg	–	–	–	–	–	–	–	–	–
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	–	–	–	–	–	–	–

Analyte	Units	Location ID		COB-SC-09		
		Sample ID		COB-SC-09-00-02	COB-SC-09-02-04	COB-SC-09-04-06
		Sample Date		8/1/2012	8/1/2012	8/1/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6
		SCO/LAET[1]	CSL/2LAET[1]			
Conventional Parameters						
Ammonia	mg/kg	NE	NE	–	–	–
Sulfide	mg/kg	NE	NE	–	–	–
Total solids	Percent	NA	NA	47.6	52.4	47.8
Total organic carbon	Percent	NE	NE	3.51	2.24	2.43
Petroleum Hydrocarbons (Dry Weight)						
Diesel-range hydrocarbons	mg/kg	NE	NE	74	21	24
Oil-range hydrocarbons	mg/kg	NE	NE	140	22	32
Total petroleum hydrocarbons	mg/kg	260	NE	214	43	56
Dioxin/Furans (Dry Weight)						
1,2,3,4,6,7,8-HpCDD	ng/kg	NE	NE	3,000	29	–
1,2,3,4,6,7,8-HpCDF	ng/kg	NE	NE	776	7.7 J	–
1,2,3,4,7,8,9-HpCDF	ng/kg	NE	NE	43	0.5 J	–
1,2,3,4,7,8-HxCDD	ng/kg	NE	NE	14	0.2	–
1,2,3,4,7,8-HxCDF	ng/kg	NE	NE	33	0.5 J	–
1,2,3,6,7,8-HxCDD	ng/kg	NE	NE	106	1.0 J	–
1,2,3,6,7,8-HxCDF	ng/kg	NE	NE	11	0.2 J	–
1,2,3,7,8,9-HxCDD	ng/kg	NE	NE	32	0.4	–
1,2,3,7,8,9-HxCDF	ng/kg	NE	NE	9.3	0.2 U	–
1,2,3,7,8-PeCDD	ng/kg	NE	NE	8.6	0.2	–
1,2,3,7,8-PeCDF	ng/kg	NE	NE	6.6	0.2 J	–
2,3,4,6,7,8-HxCDF	ng/kg	NE	NE	23	0.3 J	–
2,3,4,7,8-PeCDF	ng/kg	NE	NE	6.3	0.2 J	–
2,3,7,8-TCDD	ng/kg	NE	NE	1.9 U	0.2 U	–
2,3,7,8-TCDF	ng/kg	NE	NE	11	0.4 J	–
OCDD	ng/kg	NE	NE	32,300 J	280	–
OCDF	ng/kg	NE	NE	3,320	36	–
Dioxin/Furan TEQ (ND=0)	ng/kg	4	15	84	1.1	–
Dioxin/Furan TEQ (ND=1/2 DL	ng/kg	4	15	85	1.2	–
LPAH (OC Normalized)						
2-Methylnaphthalene	mg/kg OC	38	64	0.48	0.26	0.18
Acenaphthene	mg/kg OC	16	57	0.13	0.14 U	0.14 U
Acenaphthylene	mg/kg OC	66	66	0.22	0.28	0.14 U
Anthracene	mg/kg OC	220	1,200	0.40	0.16	0.14 U
Fluorene	mg/kg OC	23	79	0.25	0.17	0.14 U
Naphthalene	mg/kg OC	99	170	0.97	1.25	0.39
Phenanthrene	mg/kg OC	100	480	1.14	0.67	0.39
Total LPAH	mg/kg OC	370	780	3.59	2.79	0.96

Analyte	Units	Location ID		COB-SC-09		
		Sample ID		COB-SC-09-00-02	COB-SC-09-02-04	COB-SC-09-04-06
		Sample Date		8/1/2012	8/1/2012	8/1/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6
		SCO/LAET[1]	CSL/2LAET[1]			
HPAH (OC Normalized)						
Benzo(a)anthracene	mg/kg OC	110	270	**0.68**	**0.30**	**0.21**
Benzo(a)pyrene	mg/kg OC	99	210	**0.68**	**0.35**	**0.19**
Benzo(b,k)fluoranthenes	mg/kg OC	230	450	**1.14**	**0.49**	**0.27**
Benzo(ghi)perylene	mg/kg OC	31	78	**0.54**	**0.22**	0.14 U
Chrysene	mg/kg OC	110	460	**0.88**	**0.32**	**0.28**
Dibenzo(a,h)anthracene	mg/kg OC	12	33	**0.10**	0.14 U	0.14 U
Fluoranthene	mg/kg OC	160	1,200	**1.62**	**0.63**	**0.41**
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	**0.40**	**0.16**	0.14 U
Pyrene	mg/kg OC	1,000	1,400	**2.48**	**0.71**	**0.54**
Total HPAH	mg/kg OC	960	5,300	**8.54**	**3.19**	**1.89**
LPAH (Dry Weight)						
1-Methylnaphthalene	µg/kg	NE	NE	–	–	–
2-Methylnaphthalene	µg/kg	670	670	**17**	**5.8**	**4.4**
Acenaphthene	µg/kg	500	500	**4.4**	3.1 U	3.4 U
Acenaphthylene	µg/kg	1,300	1,300	**7.8**	**6.2**	3.4 U
Anthracene	µg/kg	960	960	**14**	**3.6**	3.4 U
Fluorene	µg/kg	540	540	**8.9**	**3.8**	3.4 U
Naphthalene	µg/kg	2,100	2,100	**34**	**28**	**9.5**
Phenanthrene	µg/kg	1,500	1,500	**40**	**15**	**9.4**
Total LPAH	µg/kg	5,200	5,200	**126.1**	**62.4**	**23.3**
HPAH (Dry Weight)						
Benzo(a)anthracene	µg/kg	1,300	1,600	**24**	**6.7**	**5.2**
Benzo(a)pyrene	µg/kg	1,600	3,000	**24**	**7.9**	**4.5**
Benzo(b,k)fluoranthenes	µg/kg	3,200	3,600	**40**	**11**	**6.5**
Benzo(ghi)perylene	µg/kg	670	720	**19**	**5**	3.4 U
Chrysene	µg/kg	1,400	2,800	**31**	**7.2**	**6.9**
Dibenzo(a,h)anthracene	µg/kg	230	540	**3.6**	3.1 U	3.4 U
Fluoranthene	µg/kg	1,700	2,500	**57**	**14**	**9.9**
Indeno(1,2,3-cd)pyrene	µg/kg	600	690	**14**	**3.6**	3.4 U
Pyrene	µg/kg	2,600	3,300	**87**	**16**	**13**
Total HPAH	µg/kg	12,000	17,000	**299.6**	**71.4**	**46**
cPAH TEQ (Dry Weight)						
cPAH TEQ (ND = 1/2 DL)	µg/kg	21	86	**32.47 T**	**10.257 T**	**6.079 T**
Chlorinated Organics (OC Normalized)						
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.18 U	0.188 U	0.26 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.088 U	0.094 U	0.13 U
1,3-Dichlorobenzene	mg/kg OC	NE	NE	0.088 U	0.094 U	0.13 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.088 U	0.094 U	0.13 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.091 U	0.14 U	0.14 U
Chlorinated Organics (Dry Weight)						
1,2,4-Trichlorobenzene	µg/kg	31	51	6.2 U	4.2 U	6.4 U
1,2-Dichlorobenzene	µg/kg	35	50	3.1 U	2.1 U	3.2 U
1,3-Dichlorobenzene	µg/kg	NE	NE	3.1 U	2.1 U	3.2 U
1,4-Dichlorobenzene	µg/kg	110	120	3.1 U	2.1 U	3.2 U
Hexachlorobenzene	µg/kg	22	70	3.2 U	3.1 U	3.4 U

Analyte	Units	Location ID		COB-SC-09		
		Sample ID		COB-SC-09-00-02	COB-SC-09-02-04	COB-SC-09-04-06
		Sample Date		8/1/2012	8/1/2012	8/1/2012
		Sample Depth (feet)		0 - 2	2 - 4	4 - 6
		SCO/LAET[1]	CSL/2LAET[1]			
Phthalates (OC Normalized)						
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	**0.57**	0.14 U	0.14 U
Butylbenzylphthalate	mg/kg OC	4.9	64	**0.63**	0.14 U	0.14 U
Dibutylphthalate	mg/kg OC	220	1,700	0.48 U	0.28 U	0.54 U
Diethylphthalate	mg/kg OC	61	110	0.18 U	0.27 U	0.28 U
Dimethylphthalate	mg/kg OC	53	53	**0.12**	0.14 U	0.14 U
Di-n-octylphthalate	mg/kg OC	58	4,500	**0.13**	0.14 U	0.14 U
Phthalates (Dry Weight)						
Bis(2-ethylhexyl)phthalate	µg/kg	1,300	1,900	**20**	3.1 U	3.4 U
Butylbenzylphthalate	µg/kg	63	900	**22**	3.1 U	3.4 U
Dibutylphthalate	µg/kg	1,400	1,400	17 U	6.2 U	13 U
Diethylphthalate	µg/kg	200	>200	6.3 U	6.1 U	6.8 U
Dimethylphthalate	µg/kg	71	160	**4.1**	3.1 U	3.4 U
Di-n-octylphthalate	µg/kg	6,200	6,200	**4.6**	3.1 U	3.4 U
Miscellaneous Extractables (OC Normalized)						
Dibenzofuran	mg/kg OC	15	58	**0.26**	**0.17**	0.14 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.091 U	0.14 U	0.14 U
n-Nitrosodiphenylamine	mg/kg OC	11	11	**0.12**	0.14 U	0.14 U
Miscellaneous Extractables (Dry Weight)						
Dibenzofuran	µg/kg	540	700	**9.2**	**3.9**	3.4 U
Hexachlorobutadiene	µg/kg	11	120	3.2 U	3.1 U	3.4 U
n-Nitrosodiphenylamine	µg/kg	28	40	**4.1**	3.1 U	3.4 U
Benzoic acid	µg/kg	650	650	**82 J**	61 U	68 U
Benzyl alcohol	µg/kg	57	73	3.2 U	3.1 U	3.4 U
Phenol (Dry Weight)						
2,4-Dimethylphenol	µg/kg	29	29	3.2 U	3.1 U	3.4 U
o-Cresol (2-methylphenol)	µg/kg	63	63	3.2 U	3.1 U	3.4 U
p-Cresol (4-methylphenol)	µg/kg	670	670	**71**	**10**	**17**
Pentachlorophenol	µg/kg	100	690	**84 J**	3.1 U	**5.6 J**
Phenol	µg/kg	420	1,200	**12**	**3.1**	**9.3**
Metals						
Mercury	mg/kg	0.41	0.59	–	–	–
Non-SMS SVOCs						
Hexachloroethane	µg/kg	–	–	--	--	--
2,4,5-Trichlorophenol	µg/kg	–	–	--	--	--
2,4,6-Trichlorophenol	µg/kg	–	–	--	--	--
2,3,4,5-Tetrachlorophenol	µg/kg	–	–	--	--	--
2,3,5,6-Tetrachlorophenol	µg/kg	–	–	--	--	--

Notes:

[1] The screening levels provided are the Sediment Management Standards (SMS) Sediment Cleanup Objectives (SCO) and Cleanup Screening Levels (CSL) and the Lowest Apparent Effects Threshold (LAET) and 2nd Lowest Apparent Effects Threshold (2LAET) values except for petroleum hydrocarbons, pentachlorophenol, carcinogenic PAHs and dioxins/furans. SMS criteria have not been established for petroleum hydrocarbons; the screening level is based on bioassay tests and chemical analyses performed as part of the supplemental investigation of the RG Haley Site. The screening level for pentachlorophenol is based on the practical quantitation limit to provide a conservative assessment of the potential for bioaccumulative effects. No criteria are currently available for carcinogenic PAHs and dioxins/furans; therefore natural background values were used to conservatively assess the extent of these contaminants. LAET and 2LAET values are provided for comparison to dry weight concentrations for LPAHs, HPAHs, chlorinated organics, phthalates, and miscellaneous extractables when the total organic carbon content for a specific sample is less than 0.5 percent or greater than 3.5 percent.

[2] Sample COB-SS-11 is a field duplicate of sample COB-SS-03.

[3] Sample COB-SC-04-18-20 is a field duplicate of sample COB-SB-04-00-02.

[4] Sample COB-SC-06-18-20 is a field duplicate of sample COB-SC-06-02-04.

Total organic carbon (TOC) concentration is less than 0.5 percent or greater than 3.5 percent. Therefore, the dry weight concentrations should be compared to the LAET and 2LAET for screening purposes.

Value is greater than SCO or LAET.

Value is greater than CSL or 2LAET.

Detection limit is greater than screening level.

Bold indicates that the analyte was detected.

mg/kg = milligrams per kilogram

mg/kg OC = milligrams per kilogram organic carbon normalized

ng/kg = nanograms per kilogram

µg/kg = micrograms per kilogram

J = Estimated value

U = Not detected at or above identified detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

DL = Detection Limit

– = Sample was not submitted for the identified chemical analysis

NE = A criterion has not been established for the identified analyte

ND = non-detect

NA = Not applicable

SMS = Sediment Management Standards

SCO = SMS Sediment Cleanup Objective (Chapter 173-204-320)

CSL = SMS Cleanup Screening Level (Chapter 173-204-520)

LAET = Lowest Apparent Effects Threshold (LAET). The LAET (expressed on a dry-weight basis) is analogous to the SMS SCO value for samples and is used as the sediment screening level where the sample-specific total organic carbon concentration is less than 0.5 percent or greater than 3.5 percent.

2LAET = 2nd Lowest Apparent Effects Threshold (2LAET). The 2LAET (expressed on a dry-weight basis) is analogous to the SMS CSL value and is used as the screening level for samples where the total organic carbon concentration is less than 0.5 percent or greater than 3.5 percent.

LPAH = Low molecular weight polycyclic aromatic hydrocarbons (PAHs)

HPAH = High molecular weight polycyclic aromatic hydrocarbons (PAHs)

Total LPAH is the sum of detected concentrations of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene and anthracene. 2-Methylnapthalene is not included in the total for LPAHs.

Total HPAH is the sum of detected concentrations of fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b+k)fluoranthenes, benzo(a)pyrene, indeno(1,2,3-c-d)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene.

The totals for LPAH and HPAH are the sum of all detected results. If no LPAHs or HPAHs were detected, the highest detection limit value is reported as the total.

Table 6-12

Sediment Bioassay Results

R.G. Haley Site

Bellingham, Washington

Sample ID	SCO Pass/Fail			CSL Pass/Fail		
	Larval Toxicity Test (*Mytilus galloprovincialis*)[1]	Juvenile Polychaete 20-Day Toxicity Test (*Neanthes arenaceodentata*)[2]	Amphipod 10-Day Toxicity Test (*Eohaustorius estuarius*)[3]	Larval Toxicity Test (*Mytilus galloprovincialis*)[4]	Juvenile Polychaete 20-Day Toxicity Test (*Neanthes arenaceodentata*)[5]	Amphipod 10-Day Acute Toxicity Test (*Eohaustorius estuarius*)[6]
COB-SS-02	Pass	Pass	Pass	Pass	Pass	Pass
COB-SS-03	Pass	Pass	Pass	Pass	Pass	Pass
COB-SS-04	Pass	Pass	Pass	Pass	Pass	Pass
COB-SS-05	Pass	Pass	Pass	Pass	Pass	Pass
6B-03-SS	Pass	Pass	Pass	Pass	Pass	Pass
6B-04-SS	Pass	Pass	Pass	Pass	Pass	Pass
AN-SS-29	Pass	Pass	Pass	Pass	Pass	Pass
RGH-SS-01	**Fail**	Pass	Pass	**Fail**	Pass	Pass
RGH-SS-03	**Fail**	Pass	Pass	Pass	Pass	Pass
RI-1	**Fail**	Pass	Pass	Pass	Pass	Pass
RI-2	**Fail**	Pass	Pass	Pass	Pass	Pass
RI-3	**Fail**	Pass	Pass	Pass	Pass	Pass
RI-4	**Fail**	Pass	Pass	**Fail**	Pass	Pass
RI-5	**Fail**	Pass	Pass	Pass	Pass	Pass

Notes:

[1] SCO failure - if the mean number of normal survivors in the test sediment is significantly less (1-tailed t-test at P≤0.10) than the mean number of normal survivors in the reference sediment and less than 85 percent of the number of normal survivors in the reference sediment.

[2] SCO failure - if the mean growth rate in the test sediment is significantly lower (1-tailed t-test at P≤0.05) than that in the reference sediment and less than 70 percent of the mean reference sediment response.

[3] SCO failure - if the test sediment mean amphipod mortality is significantly higher (1-tailed t-test at P<0.05) than the reference sediment mean amphipod mortality and the absolute difference is greater than 25 percent.

[4] CSL failure - (one-test criteria) if the mean number of normal survivors in the test sediment is significantly less (1-tailed t-test at P≤0.10) than the mean number of normal survivors in the reference sediment and less than 70 percent of the mean number of normal survivors in the reference sediment.

[5] CSL failure - (one-test criteria) if the mean individual growth rate in the test sediment is significantly lower (1-tailed t-test at P≤0.05) than that in the reference sediment and less than 50 percent of the mean reference sediment response.

[6] CSL failure - (one-test criteria) if the test sediment mean amphipod mortality is significantly higher (1-tailed t-test at P≤0.05) than the reference sediment mean amphipod mortality and the absolute difference is greater than 30 percent.

SCO = Sediment Cleanup Objectives Chapter 173-204 WAC

CSL = Cleanup Screening Level

MCL = Minimum Cleanup Level

Table 6-13

Stormwater Outfall Sample Results

R.G. Haley Site

Bellingham, Washington

Analyte	30" Outfall - 032613 [1] (Data for March 26, 2013 Sample)
Chemical Analytical	
NWTPH-Dx (mg/L)	
Diesel Range	0.26 U
Lube Oil Range	0.41 U
Total Suspended Solids (mg/L)	
TSS	4.0 U
SVOCs (ug/L)	
1-Methylnaphthalene	**0.011**
2-Methylnaphthalene	0.0095 U
Naphthalene	0.0095 U
Anthracene	**0.027**
Acenaphthylene	0.0095 U
Acenaphthene	**0.047**
Fluorene	**0.026**
Benzo[g,h,i]perylene	0.0095 U
Phenanthrene	**0.019**
Fluoranthene	**0.14**
Pyrene	**0.075**
PCP	**0.016**
cPAHs [3] (ug/L)	
Benzo (a) anthracene	**0.023**
Benzo (a) pyrene	**0.01**
Benzo (b) fluoranthene	**0.015**
Benzo (k) fluoranthene	0.0095 U
Chrysene	**0.011**
Dibenz (a,h) anthracene	0.0095 U
Indeno (1,2,3-cd) pyrene	0.0095 U

Field Parameters [3] (March 26, 2013)	30" Outfall (Data for March 26, 2013)	HS-MW-6 Groundwater (Data for March 26, 2013)
ph	7.9	6.2
Conductivity (µS/cm)	384	703
Turbidity (NTU)	4.7	2.7
Dissolved Oxygen (mg/L)	11.4	1.01
Temperature (degrees C)	10.8	10.2
ReDox potential (millivolts)	-5.8	-104

Notes:

[1] Stormwater sample obtained from the 30 inch City storm drain outfall. The sample was obtained near the time of low tide after all seawater had drained out of the storm drain outfall and the pipe was flowing.

[2] Semivolatile organic hydrocarbons (SVOCs) and polycyclic aromatic hydrocarbons (PAHs) were analyzed by EPA method 8270 and 8270/SIM. Other SVOCs and PAHs were analyzed but not detected.

[3] Field parameters measured with YSI/LaMotte 2020e.

-- = Not analyzed

U = Analyte was not detected at or greater than the listed reporting limit.

mg/L = milligram per liter

ug/L = microgram per liter

µS/cm = microsiemens per centimeter

Table 6-14

Soil IHSs by Depth Interval

R.G. Haley Site

Bellingham, Washington

Depth Interval (feet bgs)	Average Concentration --------- Exceedance Factor	TPH (mg/kg)	1-methyl-naphthalene (µg/kg)	2-methyl-naphthalene (µg/kg)	benzo(a)-anthracene (µg/kg)	cPAH TEQ (µg/kg)	PCP (µg/kg)	Dioxin TEQ (ng/kg)
0-5	Average Concentration	4,242	25,443	147,305	610	917	7,565	20,487
	Exceedance Factor	3	606	3,593	94	7	1,201	1,576
5-10	Average Concentration	8,800	71,396	293,659	408	553	12,074	1,412
	Exceedance Factor	6	1,700	7,162	63	4	1,917	108
10-15	Average Concentration	5,864	83,627	127,070	461	275	857	241
	Exceedance Factor	4	1,991	3,099	71	2	136	18
>15	Average Concentration	133	456	7,051	120	167	9.7	2.07
	Exceedance Factor	<1	11	171	19	1.2	1.5	<1
Screening Level		**1,534**	**42**	**41**	**6.5**	**137**	**6.3**	**13**

Notes:

Values in table are average concentrations (units vary by analyte as shown) and exceedance factor (EF) which is unitless (maximum detected concentration divided by respective screening level).

Average concentrations and maximum values used to calculate EFs are based on all soil analytical results in that depth interval (non-detects were assigned a value equal to ½ the detection limit to calculate the average or EF).

TPH = total petroleum hydrocarbons (sum of diesel- and heavy oil-range hydrocarbons)

cPAHs - carcinogenic polycyclic aromatic hydrocarbons

PCP = pentachlorophenol

TEQ = toxicity equivalent concentration

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ng/kg = nanograms per kilogram