Dalco Passage Oil Spill

King County Intertidal Sediment Reconnaissance Survey

Final Report

Prepared by the

King County Department of Natural Resources and Parks
Marine and Sediment Assessment Group

August 2005

King County

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1 INTRODUCTION

This report presents the results of intertidal sediment sampling and analysis on Vashon and Maury Islands and the mainland shoreline of south King County. This work was performed by King County as part of a reconnaissance survey of shoreline impacts in response to the Dalco Passage oil spill. The report includes a description of the survey, sampling and analytical methodologies that were employed, and sediment chemistry analytical results.

An estimated 1,000 gallons of unknown oil product was released to the waters of southern Puget Sound on October 14, 2004 in the vicinity of Commencement Bay and Dalco Passage near Vashon and Maury Islands. Oiled beaches were reported on the southern ends of both Vashon and Maury Islands and oil was reported on Puget Sound waters in Colvos Passage and the main basin. Washington State Departments of Ecology (Ecology) and Fish and Wildlife (WDFW) staff collected intertidal sediment samples, along with some tissue and water samples, from the area of immediate impact as well as other areas in King, Pierce, and Kitsap counties (Dan Doty, WDFW, personal communication, 2004).

King County conducted this additional work to aid in evaluating impacts to both King County properties and other properties located within its borders. This survey involved the collection of intertidal sediment samples from 18 stations, located on Vashon and Maury Islands and along the mainland shoreline of south King County. The samples were analyzed for a variety of chemical and physical parameters to aid in evaluating impacts to Puget Sound shorelines from the oil spill. Sampling locations were based on the following criteria:

- reports of oiled beaches;
- reports of the movement of oil on Puget Sound waters;
- level of public access;
- existing King County intertidal sediment sampling locations; and
- general accessibility for field personnel.

A full description of the intertidal sediment reconnaissance survey sampling design can be found in the project sampling and analysis plan (King County 2004).

2 SAMPLE COLLECTION

Thirty intertidal sediment samples were collected October 26, 2004 from 18 sampling stations located on Vashon Island, Maury Island, and along the South King County shoreline. Sampling stations are shown in Figure 1. This section describes station positioning and sample collection protocols that were followed during this sampling event. Sampling information recorded at the time of sample collection, including location coordinates, station elevation, and tidal conditions, is presented in Table 1.

2.1 Station Locations and Positioning

Single samples were collected from the +7 foot tide height (referenced to mean lower-low water) at 14 of the sampling stations. A 3-sample transect was performed at each of the other four stations, with samples collected from the previous high water mark (indicated by the rack line), the +7-foot tide height, and the water line at the time of sampling. These prescribed sampling locations were superseded at one station (Lost Lake Park), due to a visible sheen. The middle station of the 3-sample transect at this location was set at +6.5 feet.

Upon arrival at each sampling station, field personnel checked the beach for visible evidence of oil. If oil was present, a sediment sample was collected at that location. If no oil was present, the +7-foot tide height was located on the beach and a sample collected from that location. The +7-foot tide height on the beach at each station was measured using a hand-held level and stadium rod.

The field team used the level, which was set on a 5-foot staff, to set the target height to be read on the stadium rod. The target height on the stadium rod for +7-feet was 12 feet. The field team then used a tide chart to estimate the tide height at the time of sampling. The current tide height was then subtracted from the target height to provide the adjusted stadium rod height that should be read with the level, resulting in location of the +7-foot tide height. For example, at a tide height of +4 feet, the height that would be read on the stadium rod, with the stadium rod at the current water line was +8 feet. One member of the field team held the stadium rod at the current water line. The other team member then adjusted their position until a height of +8 feet was read through the level.

The previous high-water line, the +7-foot tide height, and the current water line were similarly located and measured at the four 3-sample transect stations, as was the beach height at the sampling location at which a sheen was present, superseding the prescribed sampling location. Location coordinates for each of the stations were obtained using Garmin™ hand-held global position system (GPS) instruments. Care was taken when locating sample collection points to avoid any potential extraneous sample contamination from such things as pilings and boat moorage areas.

2.2 Sample Collection and Handling

An attempt was made at each station to collect samples from the top 10 centimeters (cm) of sediment. Rocky substrates at several of the stations allowed sample collection only to depths of 2.5 to 5 cm. The sampling depth for each station/transect location is included in Table 1. Samples were collected with dedicated stainless steel spoons at each station/transect location, which precluded the need for decontamination of sampling gear in the field. Sediment was placed directly into the sample containers without homogenization to preserve the integrity of the volatile fractions of sample aliquots for petroleum hydrocarbon analysis. Visible debris, such as

woody or plant material and large cobbles, was removed from samples prior to placing sediment into the sample containers.

Samples were placed in pre-cleaned, pre-labeled containers supplied by the King County Environmental Laboratory. Head space was left in all sample containers, with the exception of petroleum hydrocarbon sample aliquots. All sample containers were stored in ice-filled, insulated coolers immediately after collection, which maintained the samples at a temperature of approximately 4° Celsius until delivery to the King County Environmental Laboratory. Samples were delivered to the laboratory under chain of custody the same day as collected.

One field replicate was collected at Station NSAJ01 (Dockton Park). A set of three field replicates was collected at Station NSDD01 (Lost Lake Park), one of the stations at which a three-sample transect was collected, replicating the transect in its entirety.

3 SAMPLE ANALYSIS

Thirty intertidal sediment samples were submitted for analysis of sediment conventional parameters, petroleum hydrocarbons, and trace organic compounds. This section describes the analyses performed, analytical methodologies employed, and associated quality assurance/quality control (QA/QC). Analyses were selected that would allow an evaluation of potential impacts to intertidal sediment from a fuel spill of unknown origin as well as to allow comparison of sediment chemistry data to the Washington State Sediment Management Standards (SMS) numeric sediment quality criteria (Ecology 1995) or Puget Sound Apparent Effects Threshold sediment quality guidance (EPA 1988).

3.1 Sediment Conventionals

Sediment conventional analyses included percent solids, total organic carbon (TOC), and particle size distribution (PSD). Analysis of percent solids and TOC provides data necessary to normalize sediment chemistry data to dry weight and organic carbon, respectively. Percent solids analysis was performed according to Standard Method (SM)2540-G (American Public Health Association [APHA] 1998), which is a gravimetric determination. TOC analysis was performed following EPA Method 9060 (SW-846), which is high-temperature combustion with infrared spectroscopy. PSD analysis provides a quantitative distribution of grain size in each sediment sample. PSD analysis was performed according to American Society for Testing and Materials (ASTM) Method D422 (ASTM 2002), which is a combination of sieve and hydrometer analyses.

3.2 Petroleum Hydrocarbons and Trace Organic Compounds

Organic analyses included petroleum hydrocarbons and base/neutral/acid extractable semivolatile organic compounds (BNAs), which were performed on all 30 samples. Analysis of polychlorinated biphenyls (PCBs) was initially performed only on the 15 samples collected from the four southernmost sampling stations. The other 15 samples were archived for potential PCB analysis, dependent upon results from the petroleum hydrocarbon and BNA analyses.

Petroleum hydrocarbon analysis was performed according to Ecology Method NWTPH-Gx (gasoline range) and Method NWTPH-Dx (diesel and lube oil range) (Ecology 1997a, 1997b), both of which are a solvent extraction with sonication and analysis by gas chromatography with flame ionization detector (GC/FID). BNA analysis was performed according to EPA SW-846 Method 3550B/8270C (EPA 1995), which is a solvent extraction with sonication and analysis by gas chromatography with mass spectroscopy (GC/MS). PCB analysis was performed according to EPA SW-846 Method 3550/8081A/8082 (EPA 1995), which is a solvent extraction with sonication and analysis by gas chromatography with electron capture detection (GC/ECD).

3.3 Quality Assurance/Quality Control (QA/QC)

All chemistry analyses were performed following guidance recommended in the Puget Sound Protocols (PSEP 1986, 1997) including associated QA/QC practices. Laboratory QA/QC practices produced chemistry data of sufficient quality to pass QA1 review. Chemistry data were reviewed following QA1 guidelines (Ecology 1989) and flagged with data qualifiers where appropriate. Complete sediment chemistry analytical results, including qualifier flags, are included as Appendix A. The QA1 review narrative is included as Appendix B.

4 ANALYTICAL RESULTS

This section presents results of sediment chemistry analyses. Conventional sediment chemistry results are summarized in Table 1, along with sample metadata. Results for petroleum hydrocarbons and trace organic compounds are summarized in Table 2. Complete analytical results are included as Appendix A.

4.1 Sediment Conventionals

PSD was analyzed for all 30 samples. The distribution of particle sizes in marine sediment can have an effect on contaminant concentration with many contaminants concentrating in finer materials, such as silts and clays. PSD analysis measures the percent of sediment in a sample that falls into one of four main size categories; clay, silt, sand, and gravel with results presented in units of percent on a wet weight-basis.

PSD results indicated that most of the sediments sampled were fairly coarse, with sand and gravel contributing between approximately 74 and 99% of the total particle sizes in all 30 samples.

TOC was analyzed in all 30 samples. The toxicity of certain toxic organic compounds, as well as their actual presence and relative concentration, have been shown to correlate well with the organic carbon content of the sediment (Ecology 1992). Many of the non-ionic (non-polar) organic compounds are generally normalized to organic carbon for comparison with Washington State SMS chemical criteria (Ecology 1995).

TOC results are presented in units of milligrams per kilogram normalized to dry weight (mg/Kg DW), based on the total solids content of each sample. Total organic carbon was not detected in 12 of 30 samples. Detected TOC concentrations in the other 18 samples ranged from 510 to 4,530 mg/Kg DW or approximately 0.5 to 4.5%. These concentrations are considered relatively low for Puget Sound sediments. The low organic carbon content would be expected in samples comprised of coarser particle sizes.

4.2 Petroleum Hydrocarbons and Trace Organic Compounds

Petroleum hydrocarbon analysis was performed to provide a direct indicator of potential impacts to intertidal sediment from the oil spill. Analysis of other organic compounds, such as polynuclear aromatic hydrocarbons and PCBs, was performed as an additional indicator of potential impacts. Petroleum hydrocarbon results are presented in units of mg/Kg DW.

TOC analysis indicated a relatively low organic carbon content for all 30 samples in this survey. For sediment with a TOC content less than 0.5% (5,000 mg/Kg DW), Ecology recommends comparing dry weight-normalized, non-ionic organic data to Puget Sound lowest Apparent Effects Thresholds. This comparison allows a more appropriate evaluation of sediment quality relative to organic compounds (Ecology 1992). Apparent Effects Thresholds are concentrations of certain chemicals of concern in marine sediment, above which an adverse biological effect always occurs (EPA 1988). Results for trace organic compounds are, therefore, presented in units of micrograms per kilogram, normalized to dry weight (µg/Kg DW).

4.2.1 Petroleum Hydrocarbons

Petroleum hydrocarbon analysis was performed on all 30 samples collected during the intertidal sediment reconnaissance survey. Petroleum hydrocarbons were not detected in any of the samples. Dry weight-normalized method detection limits that ranged from:

- 21 to 30 mg/Kg DW (gasoline-range);
- 52 to 74 mg/Kg DW (diesel-range); and
- 100 to 150 mg/Kg DW (heavy oil-range).

There are no Apparent Effects Thresholds for petroleum hydrocarbons in marine sediment.

4.2.2 Polynuclear Aromatic Hydrocarbons (PAHs)

Polynuclear aromatic hydrocarbons (PAHs) are found in petroleum and coal tar-related manufacturing products and can enter the marine environment directly or indirectly. As combustion byproducts, PAHs can enter the environment either through atmospheric deposition or through storm water runoff. PAHs are also the major constituents of creosote, which has traditionally been used as a wood preservative on docks and pilings. High molecular weight PAHs (HPAHs) are heavier-fraction compounds that are somewhat persistent in the environment. Low molecular weight PAHs (LPAHs) are lighter-fraction compounds and generally not as persistent in the environment as HPAHs. PAH analysis was performed on all 30 samples as an additional indicator of potential impacts to intertidal sediments from the oil spill.

Low levels of LPAH compounds were detected in 15 of 30 samples at concentrations ranging from 4.8 to 54.9 µg/Kg DW (total LPAHs). These total LPAH concentrations were all well below the Apparent Effects Threshold of 5,200 µg/Kg DW. A total LPAH concentration of 1,040 µg/Kg DW was detected in the sample collected from the +10.9 foot elevation at the Tallequah ferry dock station. While elevated in relation to the other stations, this LPAH concentration was still only 20% of the Apparent Effects Threshold.

Low levels of HPAH compounds were detected in 22 of 30 samples at concentrations ranging from 5.23 to 510 µg/Kg DW (total HPAHs). These total HPAH concentrations were also all well below the Apparent Effects Threshold of 12,000 µg/Kg DW. A total HPAH concentration of 4,880 µg/Kg DW was detected in the sample collected from the +10.9 foot elevation at the Tallequah ferry dock station. Again, while elevated in relation to the other stations, this HPAH concentration was only 40% of the Apparent Effects Threshold. The elevated concentrations of PAH compounds detected at the Tallequah ferry dock station are most likely the result of legacy contamination from the presence of the dock and normal operation of the ferry.

4.2.3 Polychlorinated Biphenyls (PCBs)

PCBs are a group of synthetic chemicals that were used widely as coolants and lubricants in transformers, capacitors, and other electrical equipment. Although the manufacture of PCBs stopped in the United States in 1977, PCBs can still be found in some waste oils. PCB analysis was performed on a select number of samples due to the unknown origin of the fuel involved in the spill. PCB analysis was performed on the 15 samples collected from the Piner Point, Manzanita Beach, Lost Lake Park, and Tallequah ferry dock stations, those stations nearest the direct impact of the oil spill. A 3-sample transect was performed at each of these stations and a complete replicate of the 3-station transect was performed at the Lost Lake Park Station.

PCBs were not detected in any of the 15 samples, at dry weight-normalized method detection limits ranging from 1.4 to 6.8 µg/Kg DW. The Apparent Effects Threshold for PCBs is 130 µg/Kg DW. Samples were collected from the other 14 stations and archived for possible PCB analysis, dependent upon petroleum hydrocarbon and PAH results, as well as PCB results from the 15 samples that were analyzed. Based on petroleum hydrocarbon, PAH, and PCB results, the archived samples were not submitted for PCB analysis.

4.2.4 Other Trace Organic Compounds

Reportable concentrations of five other trace organic compounds were detected in one or more samples – benzyl butyl phthalate, diethyl phthalate, carbazole, benzoic acid, and phenol.

Benzyl butyl phthalate, a common plasticizer, was detected in 6 of 30 samples at concentrations ranging from 11 to 20.4 µg/Kg DW. These six samples were collected from Seahurst Park, Dumas Bay Park, Gorsuch Creek, Lost Lake Park, Spring Beach Park, and Lisabuela Park. The highest detected concentration of 20.4 µg/Kg DW is well below the Apparent Effects Threshold of 63 µg/Kg DW for benzyl butyl phthalate.

Diethyl phthalate, another common plasticizer, was detected in two samples collected from Salt Water State Park and Lisabuela Park at concentrations of 7.6 and 6.9 µg/Kg DW, respectively. Both of these concentrations should be considered estimates, however, due to laboratory quality control failures. Both reported concentrations are well below the Apparent Effects Threshold of 48 µg/Kg DW for diethyl phthalate.

Carbazole was detected in one sample, collected from the Tallequah ferry dock (+10.9 feet elevation), at a concentration of 54.6 µg/Kg DW. There is not an Apparent Effects Threshold value for this chemical. Carbazole is one of many trace organic compounds found in creosote and the sample in which it was detected is the same sample in which elevated concentrations of PAH compounds were detected.

Benzoic acid was detected in 9 of 30 samples at concentrations ranging from 58 to 181 µg/Kg DW. These nine samples were collected from Gorsuch Creek, Judd Creek, Lost Lake Park (three samples), Fern Cove, Manzanita Beach, and Dockton Park (two samples). While benzoic acid may enter the environment through anthropogenic inputs, it is also a naturally-occurring byproduct from metabolic processes of some marine invertebrates. The highest reported concentration of 181 µg/Kg DW is well below the Apparent Effects Threshold of 650 µg/Kg DW.

Phenol was detected in 7 of 30 samples at concentrations ranging from 16 to 477 µg/Kg DW. These seven samples were collected from Dumas Bay Park, Judd Creek, Lost Lake Park, Fern Cove, Manzanita Beach, and Dockton Park (two samples). Five of the reported phenol concentrations, ranging from 16 to 37.1 µg/Kg DW are all valid as reported and well below the Apparent Effects Threshold of 420 µg/Kg DW. The remaining two reported phenol concentrations of 94 and 477 µg/Kg DW may have been impacted by laboratory contamination, indicated by quality control results (see Appendix B), and should be considered estimated values. The estimated phenol concentration of 477 µg/Kg DW reported for the sample collected from Lost Lake Park (+3.8 feet elevation) is greater than the Apparent Effects Threshold of 420 µg/Kg DW. While phenol is found in many products, such as resins, paints, and petroleum products, it is also found naturally in animal wastes and decomposing organic material.

5 SUMMARY

An estimated 1,000 gallons of unknown oil product was released to the waters of southern Puget Sound on October 14, 2004 in the vicinity of Commencement Bay and Dalco Passage near Vashon and Maury Islands. Oiled beaches were reported on the southern ends of both Vashon and Maury Islands and oil was reported on Puget Sound waters in Colvos Passage and the main basin.

King County collected intertidal sediment samples on October 26, 2004 from 18 stations on Vashon and Maury Islands and the South King County. Thirty samples were collected as part of a reconnaissance survey and submitted for analysis of petroleum hydrocarbons, other trace organic chemicals, and conventional sediment parameters to evaluate whether the oil spill had an impact on intertidal sediments.

Petroleum hydrocarbons were not detected at any of the 18 stations sampled. Trace levels of PAH compounds were detected at many of the stations sampled. Elevated PAH concentrations were detected at the Tallequah ferry dock station, however, these concentrations were well below the Puget Sound Apparent Effects Thresholds. It appears that elevated PAH concentrations detected at the Tallequah station are the result of legacy contamination from the dock and normal ferry operations. PCBs were not detected at any of the four stations sampled and PCB analysis was not performed on samples collected from the other 14 stations, based on petroleum hydrocarbon and PAH analytical results.

Based on these results, it does not appear that the Dalco Passage oil spill had a lasting impact on intertidal sediment quality at the 18 locations from which King County collected samples.

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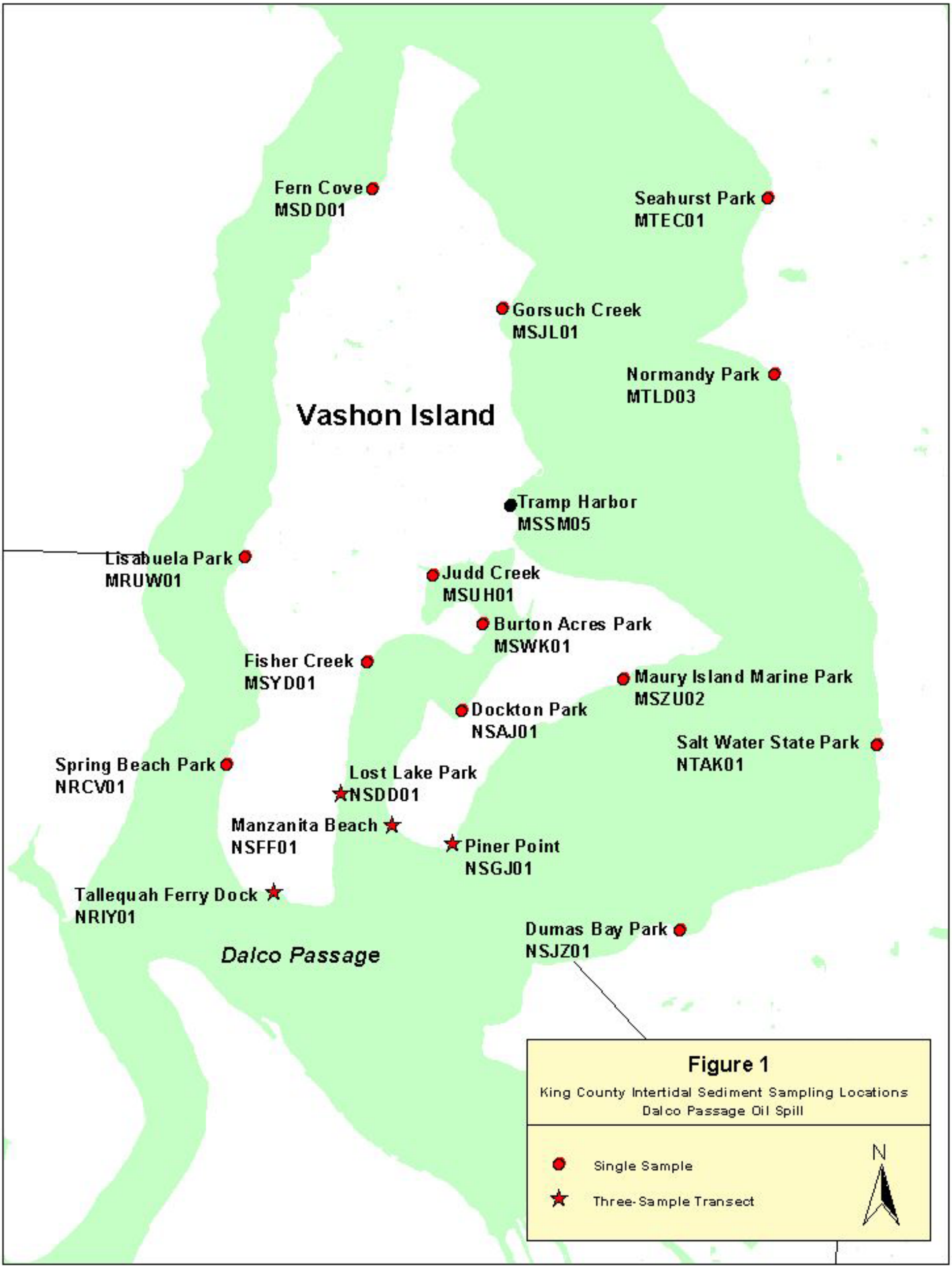

Figure 1

King County Intertidal Sediment Sampling Locations
Dalco Passage Oil Spill

Table 1
Sediment Conventional Results and Sample Metadata
Intertidal Sediment Reconnaissance Survey
Dalco Passage Oil Spill

	South King County Mainland				*Maury Island*								
Parameter or Metadata	**MTEC01**	**MTLD03**	**NTAK01**	**NSJZ01**	**MSZU02**	**NSGJ01**			**NSFF01**			**NSAJ01/NSAJ01R**	
Percent Solids	88.9	85.7	91.8	77.0	83.4	96.2	96.1	80.1	96.1	96.1	79.1	67.4	68.6
Percent Fines (Clay + Silt)	1.1	2.2	1.6	6.9	2.1	2.0	2.1	3.0	2.0	2.1	4.1	17.1	14.3
Percent Clay	0.5	0.6	0.5	1.9	1.3	1.5	1.0	1.8	1.0	1.0	2.3	3.4	3.8
Percent Silt	0.5	1.7	1.1	5.0	0.9	0.5	1.0	1.2	1.0	1.0	1.7	13.7	10.5
Percent Sand	75.3	55.3	66.9	86.6	43.2	79.1	72.0	92.1	65.3	73.9	95.8	74.4	79.3
Percent Gravel	21.2	43.2	31.7	10.3	58.4	19.6	28.5	4.8	33.3	25.4	1.1	U	0.9
Total Organic Carbon (mg/Kg DW)	U	U	950	1,440	U	U	U	U	U	560	560	2,740	3,830
Percent Total Organic Carbon	--	--	0.10	0.14	--	--	--	--	--	0.06	0.06	0.27	0.38
Northing (NAD83)	178744	165223	139602	122960	141016	129713	129713	129713	NO DATA	132810	NO DATA	139370	139370
Easting (NAD83)	1262383	1263462	1270803	1255507	1248237	1238636	1238636	1238636	NO DATA	1233081	NO DATA	1238674	1238674
Sampling Elevation (ft MLLW)	7	7	7	7	7	11.8	7	3.8	11.3	7	4.5	7	7
Sample Collection Time (hr)	855	938	1020	1120	915	1025	1025	1025	1145	1140	1130	903	908
Sediment Sampling Depth (cm)	10	10	10	10	10	10	10	10	10	10	10	5	5
Tidal Condition	Ebb	Ebb	Slack	Flood	Ebb	Slack	Slack	Slack	Flood	Flood	Flood	Ebb	Ebb
Tide Height (ft MLLW)	4.8	4.2	3.4	4.0	4.1	3.8	3.8	3.8	4.5	4.5	4.5	4.8	4.8

	Vashon Island																
Parameter or Metadata	**MSJL01**	**MSSM05**	**MSUH01**	**MSWK01**	**MSYD01**	**NSDD01/NSDD01R**						**NRIY01**			**NRCV01**	**MRUW01**	**MSDD01**
Percent Solids	79.9	96.8	76.0	95.4	94.3	93.8	73.7	76.1	92.4	74.4	74.8	95.4	95.9	81.7	92.6	92.3	81.1
Percent Fines (Clay + Silt)	17.2	2.5	11.7	3.0	1.6	2.0	14.5	14.4	2.1	13.6	12.4	1.0	1.5	1.6	1.1	1.0	4.9
Percent Clay	3.7	2.0	3.9	1.0	1.0	1.0	4.6	3.9	1.1	5.0	3.7	0.5	1.0	1.1	0.5	1.0	2.2
Percent Silt	13.5	U	7.8	2.0	0.5	1.0	9.9	10.5	1.1	8.6	8.7	0.5	0.5	0.5	0.5	U	2.7
Percent Sand	69.6	46.7	78.3	44.0	38.7	65.6	86.5	84.5	63.0	87.7	86.0	46.2	52.3	56.5	59.0	34.7	50.1
Percent Gravel	15.2	52.4	9.9	54.8	61.6	33.4	U	2.9	36.8	U	0.3	52.4	47.5	43.0	39.9	65.6	45.4
Total Organic Carbon (mg/Kg DW)	2,140	U	2,540	1,100	510	U	4,530	1,590	U	1,480	1,640	720	590	1,020	U	U	3,160
Percent Total Organic Carbon	0.21	--	0.25	0.11	0.05	--	0.45	0.16	--	0.15	0.16	0.07	0.06	0.10	--	--	0.32
Northing (NAD83)	169603	154811	150702	146431	144014	134336	134233	134283	134336	134233	134283	125862	125822	125792	131382	152595	179667
Easting (NAD83)	1242013	1243230	1236704	1240743	1232370	1229987	1230040	1230075	1229987	1230040	1230075	1225361	1225332	1225311	1220404	1222240	1232433
Sampling Elevation (ft MLLW)	7	7	7	7	7	11	6.5	3.8	11	6.5	3.8	10.9	7	3.3	7	7	7
Sample Collection Time (hr)	920	1200	824	1155	1056	1005	1020	1005	1015	1025	1010	1030	1028	1025	1220	1000	840
Sediment Sampling Depth (cm)	10	10	2.5	5	5	2.5	2.5	2.5	2.5	2.5	2.5	10	10	10	10	10	10
Tidal Condition	Ebb	Flood	Ebb	Flood	Flood	Slack	Slack	Slack	Slack	Slack	Slack	Slack	Slack	Slack	Flood	Ebb	Ebb
Tide Height (ft MLLW)	4.5	5.0	6.0	5.0	4.8	3.8	3.8	3.8	3.8	3.8	3.8	3.3	3.3	3.3	5.2	3.8	5.5

Stations

MTEC01 - Seahurst Park
MTLD03 - Normandy Park
NTAK01 - Salt Water State Park
NSJZ01 - Dumas Bay Park
MSZU02 - Maury Island Marine Park
NSGJ01 - Piner Point
NSFF01 - Manzanita Beach
NSAJ01 - Dockton Park (field replicate collected)
MSJL01 - Gorsuch Creek
MSSM05 - Tramp Harbor
MSUH01 - Judd Creek
MSWK01 - Burton Acres Park
MSYD01 - Fisher Creek
NSDD01 - Lost Lake Park (field replicate collected)
NRIY01 - Tallequah Ferry Dock
NRCV01 - Spring Beach Park
MRUW01 - Lisabuela Park
MSDD01 - Fern Cove

Notes

mg/Kg DW - Milligrams per kilogram normalized to dry weight, based on percent solids result.
U - Analyte not detected.
NAD83 - North American Datum 1983
hr - hour
cm - centimeters
ft MLLW - feet (referenced to mean lower low water)

Table 2

Sediment Chemistry Analytical Results
Intertidal Sediment Reconnaissance Survey
Dalco Passage Oil Spill

Parameter	Sediment Quality Guidelines		*South King County Mainland*				*Vashon Island*																
			MTEC01	MTLD03	NTAK01	NSJZ01	MSJL01	MSSM05	MSUH01	MSWK01	MSYD01	NSDD01/NSDD01R						NRIY01			NRCV01	MRUW01	MSDD01
	LAET	2LAET	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 7	Elev = 11	Elev = 6.5	Elev = 3.8	Elev = 11	Elev = 6.5	Elev = 3.8	Elev = 10.9	Elev = 7	Elev = 3.3	Elev = 7	Elev = 7	Elev = 7
Petroleum Hydrocarbons (mg/Kg DW)																							
Gasoline-Range	NC	NC	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Diesel-Range	NC	NC	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Lube Oil-Range	NC	NC	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Non-Ionic Organic Compounds (µg/Kg DW)																							
LPAHs																							
Acenaphthene	500	730	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	16.9	U	U	U	U	U
Acenaphthylene	1,300	1,300	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	27	U	U	U	U	U
Anthracene	960	4,400	U	7.6	4.5	5.5	U	U	U	U	U	U	U	5.4	U	U	U	52.8	4.9	5.8	U	U	U
Fluorene	540	1,000	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	52.4	U	U	U	U	U
2-Methylnaphthalene	670	1,400	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	2,100	2,400	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	1,500	5,400	4.8	8.3	7.3	7.4	U	U	6.3	19.4	U	U	U	6.6	U	6.7	6.7	893	11.1	10.3	U	U	U
Total LPAHs	5,200	13,000	4.8	16	12	13	U	U	6.3	19.4	U	U	U	12	U	6.7	6.7	1,040	16	16	U	U	U
HPAHs																							
Benzo(a)anthracene	1,300	1,600	9.36	9.84	7.72	9.73	U	4.21	9.30	9.86	U	U	6.80	9.04	U	7.20	8.66	206	9.12	15.2	5.87	5.89	U
Benzo(a)pyrene	1,600	3,000	6.4	8.44	8.31	8.94	U	U	8.91	6.1	U	U	U	5.9	U	U	7.2	102	9.04	15.1	U	U	U
Benzofluoranthenes (Total)	3,200	3,600	19.9	16.2	17.6	17.1	U	9.9	20.9	18.9	U	U	15	16	U	15	15	337	29.1	38.2	10	9.9	U
Benzo(g,h,i)perylene	670	720	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	34.5	U	11	U	U	U
Chrysene	1,400	2,800	8.0	7.0	7.3	7.3	U	U	11.7	15.6	U	U	8.3	8.4	U	8.2	6.3	411	16.1	17.3	U	U	U
Dibenzo(a,h)anthracene	230	540	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	18.6	U	U	U	U	U
Fluoranthene	1,700	2,500	13	13	14	12	U	U	21	26.9	U	U	U	13	U	21.5	11	2,490	33.6	24.6	U	U	U
Indeno(1,2,3-c,d)pyrene	600	690	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	38.2	U	12	U	U	U
Pyrene	2,600	3,300	10.8	10.9	10.3	11.5	U	U	16.6	21.4	U	U	8.5	11.6	U	15.6	9.1	1,240	21.0	18.1	4.4	U	U
Total HPAHs	12,000	17,000	67	65	65	67	U	14	89	99	U	U	39	64	U	68	57	4,880	118	150	20	16	U
Chlorobenzenes																							
1,2-Dichlorobenzene	35	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	110	120	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	31	51	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	22	70	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phthalates																							
Benzyl Butyl Phthalate	63	470	17.0	U	U	20.4	11	U	U	U	U	U	12	U	U	U	U	U	U	U	16.5	16.4	U
Bis(2-ethylhexyl) Phthalate	1,300	1,900	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B
Di-N-butyl Phthalate	1,400	5,100	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B
Diethyl Phthalate	48	73	U	U	7.6, E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	6.9, E	U
Dimethyl Phthalate	71	160	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Di-N-octyl Phthalate	420	2,100	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Miscellaneous Compounds																							
Dibenzofuran	540	700	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	11	120	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
N-Nitrosodiphenylamine	28	40	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
PCBs																							
Total Aroclors®	130	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	NA	NA	NA
Ionic Organic Compounds (µg/Kg DW)																							
Benzoic Acid	650	650	U, B	U, B	U, B	U, B	58	U	111	U	U	U	79	138	U	104	U, B	U, B	U, B	U, B	U, B	U, B	175
Benzyl Alcohol	57	73	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	63	63	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol	670	670	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	29	29	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	360	690	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenol	420	1,200	U, B	U, B	U, B	94, B	U	U	16	U	U	U	U	U	U	U	477, B	U, B	U, B	U, B	U, B	U, B	37.1

Notes

mg/Kg DW - Milligrams per kilogram on a dry weight basis (parts per million).
µg/Kg DW - Micrograms per kilogram on a dry weight basis (parts per billion).
LAET - Lowest Apparent Effects Threshhold (EPA, 1988).
2LAET - Second Lowest Apparent Effects Threshhold (EPA, 1988).
NC - No published numeric sediment criteria.
U - Parameter was undetected.
NA - Parameter was not analyzed.
B - Result impacted by laboratory contamination (see narrative and Appendix B).
E - Estimated value due to quality control failure (see narrative and Appendix B)

Stations

MSSM05 - Tramp Harbor
MSUH01 - Judd Creek
MSWK01 - Burton Acres Park
MSYD01 - Fisher Creek
NSDD01 - Lost Lake Park (field replicate collected)
NRIY01 - Tallequah Ferry Dock
NRCV01 - Spring Beach Park
MRUW01 - Lisabuela Park
MSDD01 - Fern Cove

MTEC01 - Seahurst Park
MTLD03 - Normandy Park
NTAK01 - Salt Water State Park
NSJZ01 - Dumas Bay Park
MSZU02 - Maury Island Marine Park
NSGJ01 - Piner Point
NSFF01 - Manzanita Beach
NSAJ01 - Dockton Park (field replicate collected)
MSJL01 - Gorsuch Creek

Sediment Chemistry Analytical Results
Intertidal Sediment Reconnaissance Survey
Dalco Passage Oil Spill

	Sediment Quality Guidelines		*Maury Island*								
			MSZU02	NSGJ01			NSFF01			NSAJ01 / NSAJ01R	
Parameter	LAET	2LAET	Elev = 7	Elev = 11.8	Elev = 7	Elev = 3.8	Elev = 11.3	Elev = 7	Elev = 4.5	Elev = 7	Elev = 7
Petroleum Hydrocarbons (mg/Kg DW)											
Gasoline-Range	NC	NC	U	U	U	U	U	U	U	U	U
Diesel-Range	NC	NC	U	U	U	U	U	U	U	U	U
Lube Oil-Range	NC	NC	U	U	U	U	U	U	U	U	U
Non-Ionic Organic Compounds (µg/Kg DW)											
LPAHs											
Acenaphthene	500	730	U	U	U	U	U	U	U	U	U
Acenaphthylene	1,300	1,300	U	U	U	U	U	U	U	U	U
Anthracene	960	4,400	U	U	U	U	U	U	U	14.4	8.5
Fluorene	540	1,000	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	670	1,400	U	U	U	U	U	U	U	U	U
Naphthalene	2,100	2,400	U	U	U	U	U	U	U	U	U
Phenanthrene	1,500	5,400	U	4.7	4.7	U	U	U	U	40.5	22.4
Total LPAHs	5,200	13,000	U	4.7	4.7	U	U	U	U	54.9	31
HPAHs											
Benzo(a)anthracene	1,300	1,600	U	4.79	U	5.23	5.28	5.61	U	44.1	25.9
Benzo(a)pyrene	1,600	3,000	U	U	U	U	U	3.5	U	49.9	25.2
Benzofluoranthenes (Total)	3,200	3,600	U	9.5	8.2	U	14	14.1	U	84.0	47.2
Benzo(g,h,i)perylene	670	720	U	U	U	U	U	U	U	28.6	16
Chrysene	1,400	2,800	U	4.5	U	U	6.8	9.02	U	71.8	32.9
Dibenzo(a,h)anthracene	230	540	U	U	U	U	U	U	U	14	U
Fluoranthene	1,700	2,500	U	9.8	U	U	12	17.1	U	101	42.7
Indeno(1,2,3-c,d)pyrene	600	690	U	U	U	U	U	U	U	26.7	15
Pyrene	2,600	3,300	U	7.4	5.3	U	8.8	12.0	U	93.3	41.7
Total HPAHs	12,000	17,000	U	36	14	5.23	47	61	U	510	250
Chlorobenzenes											
1,2-Dichlorobenzene	35	50	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	110	120	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	31	51	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	22	70	U	U	U	U	U	U	U	U	U
Phthalates											
Benzyl Butyl Phthalate	63	470	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl) Phthalate	1,300	1,900	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B
Di-N-butyl Phthalate	1,400	5,100	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B	U, B
Diethyl Phthalate	48	73	U	U	U	U	U	U	U	U	U
Dimethyl Phthalate	71	160	U	U	U	U	U	U	U	U	U
Di-N-octyl Phthalate	420	2,100	U	U	U	U	U	U	U	U	U
Miscellaneous Compounds											
Dibenzofuran	540	700	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	11	120	U	U	U	U	U	U	U	U	U
N-Nitrosodiphenylamine	28	40	U	U	U	U	U	U	U	U	U
PCBs											
Total Aroclors®	130	1,000	NA	U	U	U	U	U	U	NA	NA
Ionic Organic Compounds (µg/Kg DW)											
Benzoic Acid	650	650	U	U	U	U	U	U	105	174	181
Benzyl Alcohol	57	73	U	U	U	U	U	U	U	U	U
2-Methylphenol	63	63	U	U	U	U	U	U	U	U	U
4-Methylphenol	670	670	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	29	29	U	U	U	U	U	U	U	U	U
Pentachlorophenol	360	690	U	U	U	U	U	U	U	U	U
Phenol	420	1,200	U	U	U	U	U	U	18	28.0	23

Notes

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MSJL01 - Gorsuch Creek

APPENDIX A
COMPLETE ANALYTICAL RESULTS

King County Environmental Lab Analytical Report

Dalco Passage Oil Spill
Intertidal Sediment
Reconnaissance Survey
Appendix A

	Locator:	MSDD01				Locator:	MSJL01				Locator:	MSSM05				Locator:	MSZU02			
	Station:	Fern Cove				Station:	Gorsuch Road				Station:	Tramp Harbor				Station:	Maury Island Marine Park			
	Elev:	+7 ft MLLW				Elev:	+7 ft MLLW				Elev:	+7 ft MLLW				Elev:	+7 ft MLLW			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-1				Lab ID:	L33677-2				Lab ID:	L33677-3				Lab ID:	L33677-4			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	81.1				% Solids:	79.9				% Solids:	96.8				% Solids:	83.4			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	4.9		0.5	1	%	17.2		0.5	1	%	2.5		0.5	1	%	2.1		0.5	1	%
Clay *	2.2		0.5	1	%	3.7		0.5	1	%	2		0.5	1	%	1.3		0.5	1	%
Silt *	2.7		0.5	1	%	13.5		0.5	1	%		<MDL	0.5	1	%	0.9	<RDL	0.5	1	%
Sand *	50.1		0.1	1	%	69.6		0.1	1	%	46.7		0.1	1	%	43.2		0.1	1	%
Gravel *	45.4		0.1	1	%	15.2		0.1	1	%	52.4		0.1	1	%	58.4		0.1	1	%
p-2.00(less than) *	33.3		0.1	1	%	13.2		0.1	1	%	32.8		0.1	1	%	51.7		0.1	1	%
p-2.00 *	4		0.1	1	%	0.6	<RDL	0.1	1	%	5.1		0.1	1	%	1.3		0.1	1	%
p-1.00 *	8.2		0.1	1	%	1.3		0.1	1	%	14.5		0.1	1	%	5.4		0.1	1	%
p+0.00 *	5.8		0.1	1	%	0.9	<RDL	0.1	1	%	18.6		0.1	1	%	5.9		0.1	1	%
p+1.00 *	7.9		0.1	1	%	1.8		0.1	1	%	21.6		0.1	1	%	12.2		0.1	1	%
p+2.00 *	18.5		0.1	1	%	14.5		0.1	1	%	5.6		0.1	1	%	21.7		0.1	1	%
p+3.00 *	14.5		0.1	1	%	32.6		0.1	1	%	0.9	<RDL	0.1	1	%	3.3		0.1	1	%
p+4.00 *	3.4		0.1	1	%	19.7		0.1	1	%		<MDL	0.1	1	%	0.2	<RDL	0.1	1	%
p+5.00 *	0.5	<RDL	0.5	1	%	6.8		0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+6.00 *	1.1		0.5	1	%	1.8		0.5	1	%		<MDL	0.5	1	%	0.9	<RDL	0.5	1	%
p+7.00 *	1.1		0.5	1	%	3.7		0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+8.00 *		<MDL	0.5	1	%	1.2		0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+9.00 *		<MDL	0.5	1	%	1.2		0.5	1	%	1	RDL	0.5	1	%		<MDL	0.5	1	%
p+10.0(equal/more than) *	2.2		0.5	1	%	2.5		0.5	1	%	1	RDL	0.5	1	%	0.9	<RDL	0.5	1	%
M=CV SM2540-G																				
Total Solids *	81.1		0.005	0.01	%	79.9		0.005	0.01	%	96.8		0.005	0.01	%	83.4		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon	3160		510	1020	mg/Kg	2140		510	1020	mg/Kg		<MDL	510	1000	mg/Kg		<MDL	500	1010	mg/Kg
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.32	0.654	ug/Kg		<MDL	0.33	0.663	ug/Kg		<MDL	0.27	0.548	ug/Kg		<MDL	0.31	0.635	ug/Kg
1,2-Dichlorobenzene		<MDL	0.32	0.654	ug/Kg		<MDL	0.33	0.663	ug/Kg		<MDL	0.27	0.548	ug/Kg		<MDL	0.31	0.635	ug/Kg
1,2-Diphenylhydrazine		<MDL	12	24.7	ug/Kg		<MDL	13	25	ug/Kg		<MDL	10	20.7	ug/Kg		<MDL	12	24	ug/Kg
1,3-Dichlorobenzene		<MDL	0.32	0.654	ug/Kg		<MDL	0.33	0.663	ug/Kg		<MDL	0.27	0.548	ug/Kg		<MDL	0.31	0.635	ug/Kg
1,4-Dichlorobenzene		<MDL	0.16	0.326	ug/Kg		<MDL	0.16	0.33	ug/Kg		<MDL	0.13	0.273	ug/Kg		<MDL	0.16	0.317	ug/Kg
2,4,5-Trichlorophenol		<MDL	15	29.6	ug/Kg		<MDL	15	30	ug/Kg		<MDL	12	24.8	ug/Kg		<MDL	14	28.8	ug/Kg
2,4,6-Trichlorophenol		<MDL	16	32.1	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	13	26.9	ug/Kg		<MDL	16	31.2	ug/Kg
2,4-Dichlorophenol		<MDL	20	39.5	ug/Kg		<MDL	20	40.1	ug/Kg		<MDL	17	33.1	ug/Kg		<MDL	19	38.4	ug/Kg
2,4-Dimethylphenol		<MDL,X	8.6	17.3	ug/Kg		<MDL,X	8.8	17.5	ug/Kg		<MDL,X	7.2	14.5	ug/Kg		<MDL,X	8.4	16.8	ug/Kg
2,4-Dinitrotoluene		<MDL	3.7	7.4	ug/Kg		<MDL	3.8	7.51	ug/Kg		<MDL	3.1	6.2	ug/Kg		<MDL	3.6	7.19	ug/Kg
2,6-Dinitrotoluene		<MDL	12	24.7	ug/Kg		<MDL	13	25	ug/Kg		<MDL	10	20.7	ug/Kg		<MDL	12	24	ug/Kg
2-Chloronaphthalene		<MDL	20	39.5	ug/Kg		<MDL	20	40.1	ug/Kg		<MDL	17	33.1	ug/Kg		<MDL	19	38.4	ug/Kg
2-Chlorophenol		<MDL	9.9	19.7	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.5	ug/Kg		<MDL	9.6	19.2	ug/Kg
2-Methylnaphthalene		<MDL	17	34.5	ug/Kg		<MDL	18	35	ug/Kg		<MDL	14	28.9	ug/Kg		<MDL	17	33.6	ug/Kg
2-Methylphenol		<MDL	20	39.5	ug/Kg		<MDL	20	40.1	ug/Kg		<MDL	17	33.1	ug/Kg		<MDL	19	38.4	ug/Kg
2-Nitrophenol		<MDL	18	37	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	15	31	ug/Kg		<MDL	18	36	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	11	22.2	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.3	18.6	ug/Kg		<MDL	11	21.6	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	16	32.1	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	13	26.9	ug/Kg		<MDL	16	31.2	ug/Kg
4-Methylphenol		<MDL	20	39.5	ug/Kg		<MDL	20	40.1	ug/Kg		<MDL	17	33.1	ug/Kg		<MDL	19	38.4	ug/Kg
Acenaphthene		<MDL	8.6	17.3	ug/Kg		<MDL	8.8	17.5	ug/Kg		<MDL	7.2	14.5	ug/Kg		<MDL	8.4	16.8	ug/Kg
Acenaphthylene		<MDL	18	37	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	15	31	ug/Kg		<MDL	18	36	ug/Kg
Aniline		<MDL,X	23	46.9	ug/Kg		<MDL,X	24	47.6	ug/Kg		<MDL,X	20	39.3	ug/Kg		<MDL,X	23	45.6	ug/Kg
Anthracene		<MDL	4.9	9.86	ug/Kg		<MDL	5	10	ug/Kg		<MDL	4.1	8.26	ug/Kg		<MDL	4.8	9.59	ug/Kg
Benzo(a)anthracene		<MDL	2.5	4.93	ug/Kg		<MDL	2.5	5.01	ug/Kg	4.21		2.1	4.13	ug/Kg		<MDL	2.4	4.8	ug/Kg
Benzo(a)pyrene		<MDL	3.7	7.4	ug/Kg		<MDL	3.8	7.51	ug/Kg		<MDL	3.1	6.2	ug/Kg		<MDL	3.6	7.19	ug/Kg
Benzo(b)fluoranthene		<MDL	3.7	7.4	ug/Kg		<MDL	3.8	7.51	ug/Kg	5.7	<RDL	3.1	6.2	ug/Kg		<MDL	3.6	7.19	ug/Kg
Benzo(g,h,i)perylene		<MDL	9.9	19.7	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.5	ug/Kg		<MDL	9.6	19.2	ug/Kg
Benzo(k)fluoranthene		<MDL	3.7	7.4	ug/Kg		<MDL	3.8	7.51	ug/Kg	4.2	<RDL	3.1	6.2	ug/Kg		<MDL	3.6	7.19	ug/Kg
Benzoic Acid	175		16	82.2	ug/Kg	58	<RDL	16	83.5	ug/Kg		<MDL	13	68.9	ug/Kg		<MDL	16	80	ug/Kg
Benzyl Alcohol		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.4	ug/Kg		<MDL	7.2	14.4	ug/Kg
Benzyl Butyl Phthalate		<MDL	7.4	14.8	ug/Kg	11	<RDL	7.5	15	ug/Kg		<MDL	6.2	12.4	ug/Kg		<MDL	7.2	14.4	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	21	41.9	ug/Kg		<MDL	21	42.6	ug/Kg		<MDL	18	35.1	ug/Kg		<MDL	20	40.8	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	18	37	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	15	31	ug/Kg		<MDL	18	36	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	18	37	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	15	31	ug/Kg		<MDL	18	36	ug/Kg
Bis(2-Ethylhexyl)Phthalate	11	<RDL,B	8.3	17.3	ug/Kg	11	<RDL,B	8.4	17.5	ug/Kg	11	<RDL,B	6.9	14.5	ug/Kg	11	<RDL,B	8	16.8	ug/Kg
Caffeine		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.4	ug/Kg		<MDL	7.2	14.4	ug/Kg
Carbazole		<MDL	8.6	17.3	ug/Kg		<MDL	8.8	17.5	ug/Kg		<MDL	7.2	14.5	ug/Kg		<MDL	8.4	16.8	ug/Kg
Chrysene		<MDL	4.9	9.86	ug/Kg		<MDL	5	10	ug/Kg		<MDL	4.1	8.26	ug/Kg		<MDL	4.8	9.59	ug/Kg
Coprostanol		<MDL	17	34.5	ug/Kg		<MDL	18	35	ug/Kg		<MDL	14	28.9	ug/Kg		<MDL	17	33.6	ug/Kg
Dibenzo(a,h)anthracene		<MDL	8.6	17.3	ug/Kg		<MDL	8.8	17.5	ug/Kg		<MDL	7.2	14.5	ug/Kg		<MDL	8.4	16.8	ug/Kg
Dibenzofuran		<MDL	17	34.5	ug/Kg		<MDL	18	35	ug/Kg		<MDL	14	28.9	ug/Kg		<MDL	17	33.6	ug/Kg
Diethyl Phthalate		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.4	ug/Kg		<MDL	7.2	14.4	ug/Kg
Dimethyl Phthalate		<MDL	14	27.1	ug/Kg		<MDL	14	27.5	ug/Kg		<MDL	11	22.7	ug/Kg		<MDL	13	26.4	ug/Kg
Di-N-Butyl Phthalate		<MDL,B	6.2	12.3	ug/Kg	12	<RDL,B	6.3	12.5	ug/Kg	16.2	B	5.2	10.3	ug/Kg	19.1	B	6	12	ug/Kg
Di-N-Octyl Phthalate		<MDL	9.9	19.7	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.5	ug/Kg		<MDL	9.6	19.2	ug/Kg
Fluoranthene		<MDL	9.9	19.7	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.5	ug/Kg		<MDL	9.6	19.2	ug/Kg
Fluorene		<MDL	16	27.1	ug/Kg		<MDL	16	27.5	ug/Kg		<MDL	13	22.7	ug/Kg		<MDL	16	26.4	ug/Kg
Hexachlorobenzene		<MDL	0.81	1.64	ug/Kg		<MDL	0.83	1.66	ug/Kg		<MDL	0.68	1.37	ug/Kg		<MDL	0.79	1.59	ug/Kg
Hexachlorobutadiene		<MDL	0.92	1.85	ug/Kg		<MDL	0.94	1.88	ug/Kg		<MDL	0.77	1.55	ug/Kg		<MDL	0.9	1.8	ug/Kg
Hexachloroethane		<MDL	18	37	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	15	31	ug/Kg		<MDL	18	36	ug/Kg
Indeno(1,2,3-Cd)Pyrene		<MDL	11	22.2	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.3	18.6	ug/Kg		<MDL	11	21.6	ug/Kg
Isophorone		<MDL	23	46.9	ug/Kg		<MDL	24	47.6	ug/Kg		<MDL	20	39.3	ug/Kg		<MDL	23	45.6	ug/Kg
Naphthalene		<MDL	17	34.5	ug/Kg		<MDL	18	35	ug/Kg		<MDL	14	28.9	ug/Kg		<MDL	17	33.6	ug/Kg
Nitrobenzene		<MDL	20	39.5	ug/Kg		<MDL	20	40.1	ug/Kg		<MDL	17	33.1	ug/Kg		<MDL	19	38.4	ug/Kg
N-Nitrosodimethylamine		<MDL	25	49.3	ug/Kg		<MDL	25	50.1	ug/Kg		<MDL	21	41.3	ug/Kg		<MDL	24	48	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	11	22.2	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.3	18.6	ug/Kg		<MDL	11	21.6	ug/Kg
N-Nitrosodiphenylamine		<MDL	25	49.3	ug/Kg		<MDL	25	50.1	ug/Kg		<MDL	21	41.3	ug/Kg		<MDL	24	48	ug/Kg
Pentachlorophenol		<MDL	8.3	32.9	ug/Kg		<MDL	8.4	33.4	ug/Kg		<MDL	6.9	27.6	ug/Kg		<MDL	8	32	ug/Kg
Phenanthrene		<MDL	4.9	9.86	ug/Kg		<MDL	5	10	ug/Kg		<MDL	4.1	8.26	ug/Kg		<MDL	4.8	9.59	ug/Kg
Phenol	37.1		11	22.2	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.3	18.6	ug/Kg		<MDL	11	21.6	ug/Kg
Pyrene		<MDL	4.9	9.86	ug/Kg		<MDL	5	10	ug/Kg		<MDL	4.1	8.26	ug/Kg		<MDL	4.8	9.59	ug/Kg
Pyridine		<MDL	33	65.7	ug/Kg		<MDL	34	66.7	ug/Kg		<MDL	28	55.1	ug/Kg		<MDL	32	63.9	ug/Kg
M=OR EPA 8081A/8082																				
Aroclor 1016																				
Aroclor 1221																				
Aroclor 1232																				
Aroclor 1242																				
Aroclor 1248																				
Aroclor 1254																				
Aroclor 1260																				
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	62	62	mg/Kg		<MDL	63	63	mg/Kg		<MDL	52	52	mg/Kg		<MDL	60	60	mg/Kg
Gasoline Range (C7 Thru C12)		<MDL	25	25	mg/Kg		<MDL	25	25	mg/Kg		<MDL	21	21	mg/Kg		<MDL	24	24	mg/Kg
Lube Oil Range (>C24)		<MDL	120	120	mg/Kg		<MDL	130	130	mg/Kg		<MDL	100	100	mg/Kg		<MDL	120	120	mg/Kg

	Locator:	NSGJ01				Locator:	NSGJ01				Locator:	NSGJ01				Locator:	NSFF01			
	Station:	Piner Point				Station:	Piner Point				Station:	Piner Point				Station:	Manzanita Beach			
	Elev:	+11.8 ft MLLW				Elev:	+7 ft MLLW				Elev:	+3.8 ft MLLW				Elev:	+11.3 ft MLLW			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-5				Lab ID:	L33677-6				Lab ID:	L33677-7				Lab ID:	L33677-8			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	96.2				% Solids:	96.1				% Solids:	80.1				% Solids:	96.1			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	2		0.5	1	%	2.1		0.5	1	%	3		0.5	1	%	2		0.5	1	%
Clay *	1.5		0.5	1	%	1	RDL	0.5	1	%	1.8		0.5	1	%	1	RDL	0.5	1	%
Silt *	0.5	<RDL	0.5	1	%	1	RDL	0.5	1	%	1.2		0.5	1	%	1	RDL	0.5	1	%
Sand *	79.1		0.1	1	%	72		0.1	1	%	92.1		0.1	1	%	65.3		0.1	1	%
Gravel *	19.6		0.1	1	%	28.5		0.1	1	%	4.8		0.1	1	%	33.3		0.1	1	%
p-2.00(less than) *	4.1		0.1	1	%	20.3		0.1	1	%	2.3		0.1	1	%	19.8		0.1	1	%
p-2.00 *	2.8		0.1	1	%	2.3		0.1	1	%	0.9	<RDL	0.1	1	%	3.4		0.1	1	%
p-1.00 *	12.7		0.1	1	%	5.9		0.1	1	%	1.6		0.1	1	%	10.1		0.1	1	%
p+0.00 *	8.6		0.1	1	%	4		0.1	1	%	1	RDL	0.1	1	%	9.6		0.1	1	%
p+1.00 *	17		0.1	1	%	14.6		0.1	1	%	7		0.1	1	%	28.3		0.1	1	%
p+2.00 *	49.1		0.1	1	%	48.1		0.1	1	%	71.8		0.1	1	%	26.9		0.1	1	%
p+3.00 *	4.3		0.1	1	%	5.1		0.1	1	%	11.9		0.1	1	%	0.5	<RDL	0.1	1	%
p+4.00 *		<MDL	0.1	1	%	0.2	<RDL	0.1	1	%	0.4	<RDL	0.1	1	%		<MDL	0.1	1	%
p+5.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%	0.5	<RDL	0.5	1	%
p+6.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%	0.6	<RDL	0.5	1	%		<MDL	0.5	1	%
p+7.00 *		<MDL	0.5	1	%	1	RDL	0.5	1	%	0.6	<RDL	0.5	1	%		<MDL	0.5	1	%
p+8.00 *	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%	0.5	<RDL	0.5	1	%
p+9.00 *	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+10.0(equal/more than) *	1	RDL	0.5	1	%	1	RDL	0.5	1	%	1.8		0.5	1	%	1	RDL	0.5	1	%
M=CV SM2540-G																				
Total Solids *	96.2		0.005	0.01	%	96.1		0.005	0.01	%	80.1		0.005	0.01	%	96.1		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon		<MDL	500	994	mg/Kg		<MDL	490	979	mg/Kg		<MDL	510	1020	mg/Kg		<MDL	510	1010	mg/Kg
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.27	0.551	ug/Kg		<MDL	0.27	0.552	ug/Kg		<MDL	0.32	0.662	ug/Kg		<MDL	0.27	0.552	ug/Kg
1,2-Dichlorobenzene		<MDL	0.27	0.551	ug/Kg		<MDL	0.27	0.552	ug/Kg		<MDL	0.32	0.662	ug/Kg		<MDL	0.27	0.552	ug/Kg
1,2-Diphenylhydrazine		<MDL	10	20.8	ug/Kg		<MDL	10	20.8	ug/Kg		<MDL	12	25	ug/Kg		<MDL	10	20.8	ug/Kg
1,3-Dichlorobenzene		<MDL	0.27	0.551	ug/Kg		<MDL	0.27	0.552	ug/Kg		<MDL	0.32	0.662	ug/Kg		<MDL	0.27	0.552	ug/Kg
1,4-Dichlorobenzene		<MDL	0.14	0.274	ug/Kg		<MDL	0.14	0.275	ug/Kg		<MDL	0.16	0.33	ug/Kg		<MDL	0.14	0.275	ug/Kg
2,4,5-Trichlorophenol		<MDL	12	24.9	ug/Kg		<MDL	12	25	ug/Kg		<MDL	15	30	ug/Kg		<MDL	12	25	ug/Kg
2,4,6-Trichlorophenol		<MDL	14	27	ug/Kg		<MDL	14	27.1	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	14	27.1	ug/Kg
2,4-Dichlorophenol		<MDL	17	33.3	ug/Kg		<MDL	17	33.3	ug/Kg		<MDL	20	40	ug/Kg		<MDL	17	33.3	ug/Kg
2,4-Dimethylphenol		<MDL,X	7.3	14.6	ug/Kg		<MDL,X	7.3	14.6	ug/Kg		<MDL,X	8.7	17.5	ug/Kg		<MDL,X	7.3	14.6	ug/Kg
2,4-Dinitrotoluene		<MDL	3.1	6.24	ug/Kg		<MDL	3.1	6.24	ug/Kg		<MDL	3.7	7.49	ug/Kg		<MDL	3.1	6.24	ug/Kg
2,6-Dinitrotoluene		<MDL	10	20.8	ug/Kg		<MDL	10	20.8	ug/Kg		<MDL	12	25	ug/Kg		<MDL	10	20.8	ug/Kg
2-Chloronaphthalene		<MDL	17	33.3	ug/Kg		<MDL	17	33.3	ug/Kg		<MDL	20	40	ug/Kg		<MDL	17	33.3	ug/Kg
2-Chlorophenol		<MDL	8.3	16.6	ug/Kg		<MDL	8.3	16.6	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.6	ug/Kg
2-Methylnaphthalene		<MDL	15	29.1	ug/Kg		<MDL	15	29.1	ug/Kg		<MDL	17	35	ug/Kg		<MDL	15	29.1	ug/Kg
2-Methylphenol		<MDL	17	33.3	ug/Kg		<MDL	17	33.3	ug/Kg		<MDL	20	40	ug/Kg		<MDL	17	33.3	ug/Kg
2-Nitrophenol		<MDL	16	31.2	ug/Kg		<MDL	16	31.2	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	16	31.2	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	9.4	18.7	ug/Kg		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.4	18.7	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	14	27	ug/Kg		<MDL	14	27.1	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	14	27.1	ug/Kg
4-Methylphenol		<MDL	17	33.3	ug/Kg		<MDL	17	33.3	ug/Kg		<MDL	20	40	ug/Kg		<MDL	17	33.3	ug/Kg
Acenaphthene		<MDL	7.3	14.6	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.7	17.5	ug/Kg		<MDL	7.3	14.6	ug/Kg
Acenaphthylene		<MDL	16	31.2	ug/Kg		<MDL	16	31.2	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	16	31.2	ug/Kg
Aniline		<MDL,X	20	39.5	ug/Kg		<MDL,X	20	39.5	ug/Kg		<MDL,X	24	47.4	ug/Kg		<MDL,X	20	39.5	ug/Kg
Anthracene		<MDL	4.2	8.32	ug/Kg		<MDL	4.2	8.32	ug/Kg		<MDL	5	9.99	ug/Kg		<MDL	4.2	8.32	ug/Kg
Benzo(a)anthracene	4.79		2.1	4.16	ug/Kg		<MDL	2.1	4.16	ug/Kg	5.23		2.5	4.99	ug/Kg	5.28		2.1	4.16	ug/Kg
Benzo(a)pyrene		<MDL	3.1	6.24	ug/Kg		<MDL	3.1	6.24	ug/Kg		<MDL	3.7	7.49	ug/Kg		<MDL	3.1	6.24	ug/Kg
Benzo(b)fluoranthene	5.4	<RDL	3.1	6.24	ug/Kg	4.8	<RDL	3.1	6.24	ug/Kg		<MDL	3.7	7.49	ug/Kg	7.61		3.1	6.24	ug/Kg
Benzo(g,h,i)perylene		<MDL	8.3	16.6	ug/Kg		<MDL	8.3	16.6	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.6	ug/Kg
Benzo(k)fluoranthene	4.1	<RDL	3.1	6.24	ug/Kg	3.4	<RDL	3.1	6.24	ug/Kg		<MDL	3.7	7.49	ug/Kg	5.9	<RDL	3.1	6.24	ug/Kg
Benzoic Acid		<MDL	14	69.3	ug/Kg		<MDL	14	69.4	ug/Kg		<MDL	16	83.3	ug/Kg		<MDL	14	69.4	ug/Kg
Benzyl Alcohol		<MDL	6.2	12.5	ug/Kg		<MDL	6.2	12.5	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.5	ug/Kg
Benzyl Butyl Phthalate		<MDL	6.2	12.5	ug/Kg		<MDL	6.2	12.5	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.5	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	18	35.3	ug/Kg		<MDL	18	35.4	ug/Kg		<MDL	21	42.4	ug/Kg		<MDL	18	35.4	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	16	31.2	ug/Kg		<MDL	16	31.2	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	16	31.2	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	16	31.2	ug/Kg		<MDL	16	31.2	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	16	31.2	ug/Kg
Bis(2-Ethylhexyl)Phthalate	9.1	<RDL,B	7	14.6	ug/Kg	8.4	<RDL,B	7	14.6	ug/Kg	10	<RDL,B	8.4	17.5	ug/Kg	8.5	<RDL,B	7	14.6	ug/Kg
Caffeine		<MDL	6.2	12.5	ug/Kg		<MDL	6.2	12.5	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.5	ug/Kg
Carbazole		<MDL	7.3	14.6	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.7	17.5	ug/Kg		<MDL	7.3	14.6	ug/Kg
Chrysene	4.5	<RDL	4.2	8.32	ug/Kg		<MDL	4.2	8.32	ug/Kg		<MDL	5	9.99	ug/Kg	6.8	<RDL	4.2	8.32	ug/Kg
Coprostanol		<MDL	15	29.1	ug/Kg		<MDL	15	29.1	ug/Kg		<MDL	17	35	ug/Kg		<MDL	15	29.1	ug/Kg
Dibenzo(a,h)anthracene		<MDL	7.3	14.6	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.7	17.5	ug/Kg		<MDL	7.3	14.6	ug/Kg
Dibenzofuran		<MDL	15	29.1	ug/Kg		<MDL	15	29.1	ug/Kg		<MDL	17	35	ug/Kg		<MDL	15	29.1	ug/Kg
Diethyl Phthalate		<MDL	6.2	12.5	ug/Kg		<MDL	6.2	12.5	ug/Kg		<MDL	7.5	15	ug/Kg		<MDL	6.2	12.5	ug/Kg
Dimethyl Phthalate		<MDL	11	22.9	ug/Kg		<MDL	11	22.9	ug/Kg		<MDL	14	27.5	ug/Kg		<MDL	11	22.9	ug/Kg
Di-N-Butyl Phthalate	12.3	B	5.2	10.4	ug/Kg	10	<RDL,B	5.2	10.4	ug/Kg	14.4	B	6.2	12.5	ug/Kg	10.9	B	5.2	10.4	ug/Kg
Di-N-Octyl Phthalate		<MDL	8.3	16.6	ug/Kg		<MDL	8.3	16.6	ug/Kg		<MDL	10	20	ug/Kg		<MDL	8.3	16.6	ug/Kg
Fluoranthene	9.8	<RDL	8.3	16.6	ug/Kg		<MDL	8.3	16.6	ug/Kg		<MDL	10	20	ug/Kg	12	<RDL	8.3	16.6	ug/Kg
Fluorene		<MDL	14	22.9	ug/Kg		<MDL	14	22.9	ug/Kg		<MDL	16	27.5	ug/Kg		<MDL	14	22.9	ug/Kg
Hexachlorobenzene		<MDL	0.69	1.38	ug/Kg		<MDL	0.69	1.38	ug/Kg		<MDL	0.82	1.66	ug/Kg		<MDL	0.69	1.38	ug/Kg
Hexachlorobutadiene		<MDL	0.78	1.56	ug/Kg		<MDL	0.78	1.56	ug/Kg		<MDL	0.94	1.87	ug/Kg		<MDL	0.78	1.56	ug/Kg
Hexachloroethane		<MDL	16	31.2	ug/Kg		<MDL	16	31.2	ug/Kg		<MDL	19	37.5	ug/Kg		<MDL	16	31.2	ug/Kg
Indeno(1,2,3-Cd)Pyrene		<MDL	9.4	18.7	ug/Kg		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.4	18.7	ug/Kg
Isophorone		<MDL	20	39.5	ug/Kg		<MDL	20	39.5	ug/Kg		<MDL	24	47.4	ug/Kg		<MDL	20	39.5	ug/Kg
Naphthalene		<MDL	15	29.1	ug/Kg		<MDL	15	29.1	ug/Kg		<MDL	17	35	ug/Kg		<MDL	15	29.1	ug/Kg
Nitrobenzene		<MDL	17	33.3	ug/Kg		<MDL	17	33.3	ug/Kg		<MDL	20	40	ug/Kg		<MDL	17	33.3	ug/Kg
N-Nitrosodimethylamine		<MDL	21	41.6	ug/Kg		<MDL	21	41.6	ug/Kg		<MDL	25	49.9	ug/Kg		<MDL	21	41.6	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	9.4	18.7	ug/Kg		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.4	18.7	ug/Kg
N-Nitrosodiphenylamine		<MDL	21	41.6	ug/Kg		<MDL	21	41.6	ug/Kg		<MDL	25	49.9	ug/Kg		<MDL	21	41.6	ug/Kg
Pentachlorophenol		<MDL	7	27.8	ug/Kg		<MDL	7	27.8	ug/Kg		<MDL	8.4	33.3	ug/Kg		<MDL	7	27.8	ug/Kg
Phenanthrene	4.7	<RDL	4.2	8.32	ug/Kg	4.7	<RDL	4.2	8.32	ug/Kg		<MDL	5	9.99	ug/Kg		<MDL	4.2	8.32	ug/Kg
Phenol		<MDL	9.4	18.7	ug/Kg		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.5	ug/Kg		<MDL	9.4	18.7	ug/Kg
Pyrene	7.4	<RDL	4.2	8.32	ug/Kg	5.3	<RDL	4.2	8.32	ug/Kg		<MDL	5	9.99	ug/Kg	8.82		4.2	8.32	ug/Kg
Pyridine		<MDL	28	55.4	ug/Kg		<MDL	28	55.5	ug/Kg		<MDL	34	66.5	ug/Kg		<MDL	28	55.5	ug/Kg
M=OR EPA 8081A/8082																				
Aroclor 1016		<MDL	1.4	2.6	ug/Kg		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.12	ug/Kg		<MDL	1.4	2.6	ug/Kg
Aroclor 1221		<MDL	2.6	5.2	ug/Kg		<MDL	2.6	5.2	ug/Kg		<MDL	3.1	6.24	ug/Kg		<MDL	2.6	5.2	ug/Kg
Aroclor 1232		<MDL	2.6	5.2	ug/Kg		<MDL	2.6	5.2	ug/Kg		<MDL	3.1	6.24	ug/Kg		<MDL	2.6	5.2	ug/Kg
Aroclor 1242		<MDL	1.4	2.6	ug/Kg		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.12	ug/Kg		<MDL	1.4	2.6	ug/Kg
Aroclor 1248		<MDL	1.4	2.6	ug/Kg		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.12	ug/Kg		<MDL	1.4	2.6	ug/Kg
Aroclor 1254		<MDL	1.4	2.6	ug/Kg		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.12	ug/Kg		<MDL	1.4	2.6	ug/Kg
Aroclor 1260		<MDL	1.4	2.6	ug/Kg		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.12	ug/Kg		<MDL	1.4	2.6	ug/Kg
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	52	52	mg/Kg		<MDL	52	52	mg/Kg		<MDL	62	62	mg/Kg		<MDL	52	52	mg/Kg
Gasoline Range (C7 Thru C12)		<MDL	21	21	mg/Kg		<MDL	21	21	mg/Kg		<MDL	25	25	mg/Kg		<MDL	21	21	mg/Kg
Lube Oil Range (>C24)		<MDL	100	100	mg/Kg		<MDL	100	100	mg/Kg		<MDL	120	120	mg/Kg		<MDL	100	100	mg/Kg

	Locator:	NSFF01				Locator:	NSFF01				Locator:	NSAJ01				Locator:	NSAJ01			
	Station:	Manzanita Beach				Station:	Manzanita Beach				Station:	Dockton Park				Station:	Dockton Park - Field Replicate			
	Elev:	+7 ft MLLW				Elev:	+4.5 ft MLLW				Elev:	+7 ft MLLW				Elev:	+7 ft MLLW			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-9				Lab ID:	L33677-10				Lab ID:	L33677-11				Lab ID:	L33677-12			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	96.1				% Solids:	79.1				% Solids:	67.4				% Solids:	68.6			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	2.1		0.5	1	%	4.1		0.5	1	%	17.1		0.5	1	%	14.3		0.5	1	%
Clay *	1	RDL	0.5	1	%	2.3		0.5	1	%	3.4	E	0.5	1	%	3.8	E	0.5	1	%
Silt *	1	RDL	0.5	1	%	1.7		0.5	1	%	13.7		0.5	1	%	10.5		0.5	1	%
Sand *	73.9		0.1	1	%	95.8		0.1	1	%	74.4		0.1	1	%	79.3		0.1	1	%
Gravel *	25.4		0.1	1	%	1.1		0.1	1	%		<MDL	0.1	1	%	0.9	<RDL	0.1	1	%
p-2.00(less than) *	21.9		0.1	1	%	0.8	<RDL	0.1	1	%		<MDL	0.1	1	%	0.3	<RDL	0.1	1	%
p-2.00 *	0.8	<RDL	0.1	1	%		<MDL	0.1	1	%		<MDL	0.1	1	%		<MDL	0.1	1	%
p-1.00 *	2.7		0.1	1	%	0.3	<RDL	0.1	1	%		<MDL	0.1	1	%	0.6	<RDL	0.1	1	%
p+0.00 *	4.6		0.1	1	%	1.6		0.1	1	%	0.2	<RDL	0.1	1	%	1.8		0.1	1	%
p+1.00 *	21.3		0.1	1	%	12.5		0.1	1	%	2.8		0.1	1	%	7.1		0.1	1	%
p+2.00 *	43.7		0.1	1	%	64.1		0.1	1	%	21.3		0.1	1	%	27.6		0.1	1	%
p+3.00 *	4.1		0.1	1	%	16.9		0.1	1	%	24.2		0.1	1	%	20.5		0.1	1	%
p+4.00 *	0.3	<RDL	0.1	1	%	0.7	<RDL	0.1	1	%	25.8		0.1	1	%	22.3		0.1	1	%
p+5.00 *		<MDL	0.5	1	%	0.6	<RDL	0.5	1	%	8.9		0.5	1	%	7.5		0.5	1	%
p+6.00 *	1	RDL	0.5	1	%	1.2		0.5	1	%	1.4		0.5	1	%	2.3		0.5	1	%
p+7.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%	2.1		0.5	1	%	0.8	<RDL	0.5	1	%
p+8.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%	1.4		0.5	1	%		<MDL	0.5	1	%
p+9.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%	0.8	<RDL	0.5	1	%
p+10.0(equal/more than) *	1	RDL	0.5	1	%	2.3		0.5	1	%	3.4		0.5	1	%	3		0.5	1	%
M=CV SM2540-G																				
Total Solids *	96.1		0.005	0.01	%	79.1		0.005	0.01	%	67.4		0.005	0.01	%	68.6		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon	560	<RDL	490	986	mg/Kg	560	<RDL	510	1020	mg/Kg	2740		500	1020	mg/Kg	3830		520	1050	mg/Kg
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.27	0.552	ug/Kg		<MDL	0.33	0.67	ug/Kg		<MDL	0.39	0.786	ug/Kg		<MDL	0.38	0.773	ug/Kg
1,2-Dichlorobenzene		<MDL	0.27	0.552	ug/Kg		<MDL	0.33	0.67	ug/Kg		<MDL	0.39	0.786	ug/Kg		<MDL	0.38	0.773	ug/Kg
1,2-Diphenylhydrazine		<MDL	10	20.8	ug/Kg		<MDL	13	25.3	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.2	ug/Kg
1,3-Dichlorobenzene		<MDL	0.27	0.552	ug/Kg		<MDL	0.33	0.67	ug/Kg		<MDL	0.39	0.786	ug/Kg		<MDL	0.38	0.773	ug/Kg
1,4-Dichlorobenzene		<MDL	0.14	0.275	ug/Kg		<MDL	0.16	0.334	ug/Kg		<MDL	0.19	0.392	ug/Kg		<MDL	0.19	0.385	ug/Kg
2,4,5-Trichlorophenol		<MDL	12	25	ug/Kg		<MDL	15	30.3	ug/Kg		<MDL	18	35.6	ug/Kg		<MDL	17	35	ug/Kg
2,4,6-Trichlorophenol		<MDL	14	27.1	ug/Kg		<MDL	16	32.9	ug/Kg		<MDL	19	38.6	ug/Kg		<MDL	19	37.9	ug/Kg
2,4-Dichlorophenol		<MDL	17	33.3	ug/Kg		<MDL	20	40.5	ug/Kg		<MDL	24	47.5	ug/Kg		<MDL	23	46.6	ug/Kg
2,4-Dimethylphenol		<MDL,X	7.3	14.6	ug/Kg		<MDL,X	8.8	17.7	ug/Kg		<MDL,X	10	20.8	ug/Kg		<MDL,X	10	20.4	ug/Kg
2,4-Dinitrotoluene		<MDL	3.1	6.24	ug/Kg		<MDL	3.8	7.59	ug/Kg		<MDL	4.5	8.9	ug/Kg		<MDL	4.4	8.75	ug/Kg
2,6-Dinitrotoluene		<MDL	10	20.8	ug/Kg		<MDL	13	25.3	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.2	ug/Kg
2-Chloronaphthalene		<MDL	17	33.3	ug/Kg		<MDL	20	40.5	ug/Kg		<MDL	24	47.5	ug/Kg		<MDL	23	46.6	ug/Kg
2-Chlorophenol		<MDL	8.3	16.6	ug/Kg		<MDL	10	20.2	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	12	23.3	ug/Kg
2-Methylnaphthalene		<MDL	15	29.1	ug/Kg		<MDL	18	35.4	ug/Kg		<MDL	21	41.5	ug/Kg		<MDL	20	40.8	ug/Kg
2-Methylphenol		<MDL	17	33.3	ug/Kg		<MDL	20	40.5	ug/Kg		<MDL	24	47.5	ug/Kg		<MDL	23	46.6	ug/Kg
2-Nitrophenol		<MDL	16	31.2	ug/Kg		<MDL	19	37.9	ug/Kg		<MDL	22	44.5	ug/Kg		<MDL	22	43.7	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.8	ug/Kg		<MDL	13	26.7	ug/Kg		<MDL	13	26.2	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	14	27.1	ug/Kg		<MDL	16	32.9	ug/Kg		<MDL	19	38.6	ug/Kg		<MDL	19	37.9	ug/Kg
4-Methylphenol		<MDL	17	33.3	ug/Kg		<MDL	20	40.5	ug/Kg		<MDL	24	47.5	ug/Kg		<MDL	23	46.6	ug/Kg
Acenaphthene		<MDL	7.3	14.6	ug/Kg		<MDL	8.8	17.7	ug/Kg		<MDL	10	20.8	ug/Kg		<MDL	10	20.4	ug/Kg
Acenaphthylene		<MDL	16	31.2	ug/Kg		<MDL	19	37.9	ug/Kg		<MDL	22	44.5	ug/Kg		<MDL	22	43.7	ug/Kg
Aniline		<MDL,X	20	39.5	ug/Kg		<MDL,X	24	48	ug/Kg		<MDL,X	28	56.4	ug/Kg		<MDL,X	28	55.4	ug/Kg
Anthracene		<MDL	4.2	8.32	ug/Kg		<MDL	5.1	10.1	ug/Kg	14.4		5.9	11.9	ug/Kg	8.5	<RDL	5.8	11.7	ug/Kg
Benzo(a)anthracene	5.61		2.1	4.16	ug/Kg		<MDL	2.5	5.06	ug/Kg	44.1		3	5.93	ug/Kg	25.9		2.9	5.83	ug/Kg
Benzo(a)pyrene	3.5	<RDL	3.1	6.24	ug/Kg		<MDL	3.8	7.59	ug/Kg	49.9		4.5	8.9	ug/Kg	25.2		4.4	8.75	ug/Kg
Benzo(b)fluoranthene	7.61		3.1	6.24	ug/Kg		<MDL	3.8	7.59	ug/Kg	42		4.5	8.9	ug/Kg	27.7		4.4	8.75	ug/Kg
Benzo(g,h,i)perylene		<MDL	8.3	16.6	ug/Kg		<MDL	10	20.2	ug/Kg	28.6		12	23.7	ug/Kg	16	<RDL	12	23.3	ug/Kg
Benzo(k)fluoranthene	6.49		3.1	6.24	ug/Kg		<MDL	3.8	7.59	ug/Kg	42		4.5	8.9	ug/Kg	19.5		4.4	8.75	ug/Kg
Benzoic Acid		<MDL	14	69.4	ug/Kg	105		16	84.3	ug/Kg	174		19	99	ug/Kg	181		19	97.2	ug/Kg
Benzyl Alcohol		<MDL	6.2	12.5	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	8.9	17.8	ug/Kg		<MDL	8.7	17.5	ug/Kg
Benzyl Butyl Phthalate		<MDL	6.2	12.5	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	8.9	17.8	ug/Kg		<MDL	8.7	17.5	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	18	35.4	ug/Kg		<MDL	21	43	ug/Kg		<MDL	25	50.4	ug/Kg		<MDL	25	49.6	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	16	31.2	ug/Kg		<MDL	19	37.9	ug/Kg		<MDL	22	44.5	ug/Kg		<MDL	22	43.7	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	16	31.2	ug/Kg		<MDL	19	37.9	ug/Kg		<MDL	22	44.5	ug/Kg		<MDL	22	43.7	ug/Kg
Bis(2-Ethylhexyl)Phthalate	9.4	<RDL,B	7	14.6	ug/Kg	11	<RDL,B	8.5	17.7	ug/Kg	36.4	B	9.9	20.8	ug/Kg	27.3	B	9.8	20.4	ug/Kg
Caffeine		<MDL	6.2	12.5	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	8.9	17.8	ug/Kg		<MDL	8.7	17.5	ug/Kg
Carbazole		<MDL	7.3	14.6	ug/Kg		<MDL	8.8	17.7	ug/Kg		<MDL	10	20.8	ug/Kg		<MDL	10	20.4	ug/Kg
Chrysene	9.02		4.2	8.32	ug/Kg		<MDL	5.1	10.1	ug/Kg	71.8		5.9	11.9	ug/Kg	32.9		5.8	11.7	ug/Kg
Coprostanol		<MDL	15	29.1	ug/Kg		<MDL	18	35.4	ug/Kg		<MDL	21	41.5	ug/Kg		<MDL	20	40.8	ug/Kg
Dibenzo(a,h)anthracene		<MDL	7.3	14.6	ug/Kg		<MDL	8.8	17.7	ug/Kg	14	<RDL	10	20.8	ug/Kg		<MDL	10	20.4	ug/Kg
Dibenzofuran		<MDL	15	29.1	ug/Kg		<MDL	18	35.4	ug/Kg		<MDL	21	41.5	ug/Kg		<MDL	20	40.8	ug/Kg
Diethyl Phthalate		<MDL	6.2	12.5	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	8.9	17.8	ug/Kg		<MDL	8.7	17.5	ug/Kg
Dimethyl Phthalate		<MDL	11	22.9	ug/Kg		<MDL	14	27.8	ug/Kg		<MDL	16	32.6	ug/Kg		<MDL	16	32.1	ug/Kg
Di-N-Butyl Phthalate	13.4	B	5.2	10.4	ug/Kg	17.4	B	6.3	12.6	ug/Kg	22.4	B	7.4	14.8	ug/Kg	17.9	B	7.3	14.6	ug/Kg
Di-N-Octyl Phthalate		<MDL	8.3	16.6	ug/Kg		<MDL	10	20.2	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	12	23.3	ug/Kg
Fluoranthene	17.1		8.3	16.6	ug/Kg		<MDL	10	20.2	ug/Kg	101		12	23.7	ug/Kg	42.7		12	23.3	ug/Kg
Fluorene		<MDL	14	22.9	ug/Kg		<MDL	16	27.8	ug/Kg		<MDL	19	32.6	ug/Kg		<MDL	19	32.1	ug/Kg
Hexachlorobenzene		<MDL	0.69	1.38	ug/Kg		<MDL	0.83	1.68	ug/Kg		<MDL	0.98	1.97	ug/Kg		<MDL	0.96	1.94	ug/Kg
Hexachlorobutadiene		<MDL	0.78	1.56	ug/Kg		<MDL	0.95	1.9	ug/Kg		<MDL	1.1	2.23	ug/Kg		<MDL	1.1	2.19	ug/Kg
Hexachloroethane		<MDL	16	31.2	ug/Kg		<MDL	19	37.9	ug/Kg		<MDL	22	44.5	ug/Kg		<MDL	22	43.7	ug/Kg
Indeno(1,2,3-Cd)Pyrene		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.8	ug/Kg	26.7	RDL	13	26.7	ug/Kg	15	<RDL	13	26.2	ug/Kg
Isophorone		<MDL	20	39.5	ug/Kg		<MDL	24	48	ug/Kg		<MDL	28	56.4	ug/Kg		<MDL	28	55.4	ug/Kg
Naphthalene		<MDL	15	29.1	ug/Kg		<MDL	18	35.4	ug/Kg		<MDL	21	41.5	ug/Kg		<MDL	20	40.8	ug/Kg
Nitrobenzene		<MDL	17	33.3	ug/Kg		<MDL	20	40.5	ug/Kg		<MDL	24	47.5	ug/Kg		<MDL	23	46.6	ug/Kg
N-Nitrosodimethylamine		<MDL	21	41.6	ug/Kg		<MDL	25	50.6	ug/Kg		<MDL	30	59.3	ug/Kg		<MDL	29	58.3	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	9.4	18.7	ug/Kg		<MDL	11	22.8	ug/Kg		<MDL	13	26.7	ug/Kg		<MDL	13	26.2	ug/Kg
N-Nitrosodiphenylamine		<MDL	21	41.6	ug/Kg		<MDL	25	50.6	ug/Kg		<MDL	30	59.3	ug/Kg		<MDL	29	58.3	ug/Kg
Pentachlorophenol		<MDL	7	27.8	ug/Kg		<MDL	8.5	33.8	ug/Kg		<MDL	9.9	39.6	ug/Kg		<MDL	9.8	38.9	ug/Kg
Phenanthrene		<MDL	4.2	8.32	ug/Kg		<MDL	5.1	10.1	ug/Kg	40.5		5.9	11.9	ug/Kg	22.4		5.8	11.7	ug/Kg
Phenol		<MDL	9.4	18.7	ug/Kg	18	<RDL	11	22.8	ug/Kg	28		13	26.7	ug/Kg	23	<RDL	13	26.2	ug/Kg
Pyrene	12		4.2	8.32	ug/Kg		<MDL	5.1	10.1	ug/Kg	93.3		5.9	11.9	ug/Kg	41.7		5.8	11.7	ug/Kg
Pyridine		<MDL	28	55.5	ug/Kg		<MDL	34	67.4	ug/Kg		<MDL	40	79.1	ug/Kg		<MDL	39	77.7	ug/Kg
M=OR EPA 8081A/8082																				
Aroclor 1016		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.16	ug/Kg										
Aroclor 1221		<MDL	2.6	5.2	ug/Kg		<MDL	3.2	6.32	ug/Kg										
Aroclor 1232		<MDL	2.6	5.2	ug/Kg		<MDL	3.2	6.32	ug/Kg										
Aroclor 1242		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.16	ug/Kg										
Aroclor 1248		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.16	ug/Kg										
Aroclor 1254		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.16	ug/Kg										
Aroclor 1260		<MDL	1.4	2.6	ug/Kg		<MDL	1.6	3.16	ug/Kg										
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	52	52	mg/Kg		<MDL	63	63	mg/Kg		<MDL	74	74	mg/Kg		<MDL	73	73	mg/Kg
Gasoline Range (C7 Thru C12)		<MDL	21	21	mg/Kg		<MDL	25	25	mg/Kg		<MDL	30	30	mg/Kg		<MDL	29	29	mg/Kg
Lube Oil Range (>C24)		<MDL	100	100	mg/Kg		<MDL	130	130	mg/Kg		<MDL	150	150	mg/Kg		<MDL	150	150	mg/Kg

	Locator:	MSUH01				Locator:	MSWK01				Locator:	MSYD01				Locator:	NSDD01			
	Station:	Judd Creek				Station:	Burton Acres Park				Station:	Fisher Creek				Station:	Lost Lake Park			
	Elev:	+7 ft MLLW				Elev:	+7 ft MLLW				Elev:	+7 ft MLLW				Elev:	+11 ft MLLW			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-13				Lab ID:	L33677-14				Lab ID:	L33677-15				Lab ID:	L33677-16			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	76				% Solids:	95.4				% Solids:	94.3				% Solids:	93.8			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	11.7		0.5	1	%	3		0.5	1	%	1.6		0.5	1	%	2		0.5	1	%
Clay *	3.9	E	0.5	1	%	1	RDL,E	0.5	1	%	1	RDL,E	0.5	1	%	1	RDL,E	0.5	1	%
Silt *	7.8		0.5	1	%	2		0.5	1	%	0.5	<RDL	0.5	1	%	1	RDL	0.5	1	%
Sand *	78.3		0.1	1	%	44		0.1	1	%	38.7		0.1	1	%	65.6		0.1	1	%
Gravel *	9.9		0.1	1	%	54.8		0.1	1	%	61.6		0.1	1	%	33.4		0.1	1	%
p-2.00(less than) *	2.9		0.1	1	%	35.6		0.1	1	%	48.7		0.1	1	%	20.2		0.1	1	%
p-2.00 *	1.8		0.1	1	%	3		0.1	1	%	5.3		0.1	1	%	2.2		0.1	1	%
p-1.00 *	5.2		0.1	1	%	16.3		0.1	1	%	7.6		0.1	1	%	11		0.1	1	%
p+0.00 *	4.7		0.1	1	%	16.8		0.1	1	%	4.9		0.1	1	%	19.1		0.1	1	%
p+1.00 *	7		0.1	1	%	12.6		0.1	1	%	9.1		0.1	1	%	28.8		0.1	1	%
p+2.00 *	23.9		0.1	1	%	11.8		0.1	1	%	20.9		0.1	1	%	14.1		0.1	1	%
p+3.00 *	32.9		0.1	1	%	2.2		0.1	1	%	3.6		0.1	1	%	3.5		0.1	1	%
p+4.00 *	9.8		0.1	1	%	0.5	<RDL	0.1	1	%	0.1	<RDL	0.1	1	%		<MDL	0.1	1	%
p+5.00 *	3.9		0.5	1	%	0.5	<RDL	0.5	1	%	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%
p+6.00 *	2		0.5	1	%	1	RDL	0.5	1	%		<MDL	0.5	1	%	1	RDL	0.5	1	%
p+7.00 *	1.3		0.5	1	%	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+8.00 *	0.7	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+9.00 *	0.7	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+10.0(equal/more than) *	3.3		0.5	1	%	1	RDL	0.5	1	%	1	RDL	0.5	1	%	1	RDL	0.5	1	%
M=CV SM2540-G																				
Total Solids *	76		0.005	0.01	%	95.4		0.005	0.01	%	94.3		0.005	0.01	%	93.8		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon	2540		500	989	mg/Kg	1100		490	984	mg/Kg	510	<RDL	510	1020	mg/Kg		<MDL	500	1010	mg/Kg
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.34	0.697	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.28	0.562	ug/Kg		<MDL	0.28	0.565	ug/Kg
1,2-Dichlorobenzene		<MDL	0.34	0.697	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.28	0.562	ug/Kg		<MDL	0.28	0.565	ug/Kg
1,2-Diphenylhydrazine		<MDL	13	26.3	ug/Kg		<MDL	10	21	ug/Kg		<MDL	11	21.2	ug/Kg		<MDL	11	21.3	ug/Kg
1,3-Dichlorobenzene		<MDL	0.34	0.697	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.28	0.562	ug/Kg		<MDL	0.28	0.565	ug/Kg
1,4-Dichlorobenzene		<MDL	0.17	0.347	ug/Kg		<MDL	0.14	0.277	ug/Kg		<MDL	0.14	0.28	ug/Kg		<MDL	0.14	0.281	ug/Kg
2,4,5-Trichlorophenol		<MDL	16	31.6	ug/Kg		<MDL	13	25.2	ug/Kg		<MDL	13	25.5	ug/Kg		<MDL	13	25.6	ug/Kg
2,4,6-Trichlorophenol		<MDL	17	34.2	ug/Kg		<MDL	14	27.3	ug/Kg		<MDL	14	27.6	ug/Kg		<MDL	14	27.7	ug/Kg
2,4-Dichlorophenol		<MDL	21	42.1	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.9	ug/Kg		<MDL	17	34.1	ug/Kg
2,4-Dimethylphenol		<MDL,X	9.2	18.4	ug/Kg		<MDL,X	7.3	14.7	ug/Kg		<MDL,X	7.4	14.8	ug/Kg		<MDL,X	7.5	14.9	ug/Kg
2,4-Dinitrotoluene		<MDL	3.9	7.89	ug/Kg		<MDL	3.1	6.29	ug/Kg		<MDL	3.2	6.36	ug/Kg		<MDL	3.2	6.4	ug/Kg
2,6-Dinitrotoluene		<MDL	13	26.3	ug/Kg		<MDL	10	21	ug/Kg		<MDL	11	21.2	ug/Kg		<MDL	11	21.3	ug/Kg
2-Chloronaphthalene		<MDL	21	42.1	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.9	ug/Kg		<MDL	17	34.1	ug/Kg
2-Chlorophenol		<MDL	11	21.1	ug/Kg		<MDL	8.4	16.8	ug/Kg		<MDL	8.5	17	ug/Kg		<MDL	8.5	17.1	ug/Kg
2-Methylnaphthalene		<MDL	18	36.8	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.9	ug/Kg
2-Methylphenol		<MDL	21	42.1	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.9	ug/Kg		<MDL	17	34.1	ug/Kg
2-Nitrophenol		<MDL	20	39.5	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.8	ug/Kg		<MDL	16	32	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	12	23.7	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.5	19.1	ug/Kg		<MDL	9.6	19.2	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	17	34.2	ug/Kg		<MDL	14	27.3	ug/Kg		<MDL	14	27.6	ug/Kg		<MDL	14	27.7	ug/Kg
4-Methylphenol		<MDL	21	42.1	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.9	ug/Kg		<MDL	17	34.1	ug/Kg
Acenaphthene		<MDL	9.2	18.4	ug/Kg		<MDL	7.3	14.7	ug/Kg		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	14.9	ug/Kg
Acenaphthylene		<MDL	20	39.5	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.8	ug/Kg		<MDL	16	32	ug/Kg
Aniline		<MDL,X	25	50	ug/Kg		<MDL,X	20	39.8	ug/Kg		<MDL,X	20	40.3	ug/Kg		<MDL,X	20	40.5	ug/Kg
Anthracene		<MDL	5.3	10.5	ug/Kg		<MDL	4.2	8.39	ug/Kg		<MDL	4.2	8.48	ug/Kg		<MDL	4.3	8.53	ug/Kg
Benzo(a)anthracene	9.3		2.6	5.26	ug/Kg	9.86		2.1	4.19	ug/Kg		<MDL	2.1	4.24	ug/Kg		<MDL	2.1	4.26	ug/Kg
Benzo(a)pyrene	8.91		3.9	7.89	ug/Kg	6.1	<RDL	3.1	6.29	ug/Kg		<MDL	3.2	6.36	ug/Kg		<MDL	3.2	6.4	ug/Kg
Benzo(b)fluoranthene	11.4		3.9	7.89	ug/Kg	8.84		3.1	6.29	ug/Kg		<MDL	3.2	6.36	ug/Kg		<MDL	3.2	6.4	ug/Kg
Benzo(g,h,i)perylene		<MDL	11	21.1	ug/Kg		<MDL	8.4	16.8	ug/Kg		<MDL	8.5	17	ug/Kg		<MDL	8.5	17.1	ug/Kg
Benzo(k)fluoranthene	9.51		3.9	7.89	ug/Kg	10.1		3.1	6.29	ug/Kg		<MDL	3.2	6.36	ug/Kg		<MDL	3.2	6.4	ug/Kg
Benzoic Acid	111		17	87.8	ug/Kg		<MDL	14	69.9	ug/Kg		<MDL	14	70.7	ug/Kg		<MDL	14	71.1	ug/Kg
Benzyl Alcohol		<MDL	7.9	15.8	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.4	12.7	ug/Kg		<MDL	6.4	12.8	ug/Kg
Benzyl Butyl Phthalate		<MDL	7.9	15.8	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.4	12.7	ug/Kg		<MDL	6.4	12.8	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	22	44.7	ug/Kg		<MDL	18	35.6	ug/Kg		<MDL	18	36.1	ug/Kg		<MDL	18	36.2	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	20	39.5	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.8	ug/Kg		<MDL	16	32	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	20	39.5	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.8	ug/Kg		<MDL	16	32	ug/Kg
Bis(2-Ethylhexyl)Phthalate	16	<RDL,B	8.8	18.4	ug/Kg	9.4	<RDL,B	7	14.7	ug/Kg	8.3	<RDL,B	7.1	14.8	ug/Kg	8.7	<RDL,B	7.1	14.9	ug/Kg
Caffeine		<MDL	7.9	15.8	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.4	12.7	ug/Kg		<MDL	6.4	12.8	ug/Kg
Carbazole		<MDL	9.2	18.4	ug/Kg		<MDL	7.3	14.7	ug/Kg		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	14.9	ug/Kg
Chrysene	11.7		5.3	10.5	ug/Kg	15.6		4.2	8.39	ug/Kg		<MDL	4.2	8.48	ug/Kg		<MDL	4.3	8.53	ug/Kg
Coprostanol		<MDL	18	36.8	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.9	ug/Kg
Dibenzo(a,h)anthracene		<MDL	9.2	18.4	ug/Kg		<MDL	7.3	14.7	ug/Kg		<MDL	7.4	14.8	ug/Kg		<MDL	7.5	14.9	ug/Kg
Dibenzofuran		<MDL	18	36.8	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.9	ug/Kg
Diethyl Phthalate		<MDL	7.9	15.8	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.4	12.7	ug/Kg		<MDL	6.4	12.8	ug/Kg
Dimethyl Phthalate		<MDL	14	28.9	ug/Kg		<MDL	12	23.1	ug/Kg		<MDL	12	23.3	ug/Kg		<MDL	12	23.5	ug/Kg
Di-N-Butyl Phthalate	22.1	B	6.6	13.2	ug/Kg	14	B	5.2	10.5	ug/Kg	10.7	B	5.3	10.6	ug/Kg	10	<RDL,B	5.3	10.7	ug/Kg
Di-N-Octyl Phthalate		<MDL	11	21.1	ug/Kg		<MDL	8.4	16.8	ug/Kg		<MDL	8.5	17	ug/Kg		<MDL	8.5	17.1	ug/Kg
Fluoranthene	21	RDL	11	21.1	ug/Kg	26.9		8.4	16.8	ug/Kg		<MDL	8.5	17	ug/Kg		<MDL	8.5	17.1	ug/Kg
Fluorene		<MDL	17	28.9	ug/Kg		<MDL	14	23.1	ug/Kg		<MDL	14	23.3	ug/Kg		<MDL	14	23.5	ug/Kg
Hexachlorobenzene		<MDL	0.87	1.75	ug/Kg		<MDL	0.69	1.39	ug/Kg		<MDL	0.7	1.41	ug/Kg		<MDL	0.7	1.42	ug/Kg
Hexachlorobutadiene		<MDL	0.99	1.97	ug/Kg		<MDL	0.79	1.57	ug/Kg		<MDL	0.8	1.59	ug/Kg		<MDL	0.8	1.6	ug/Kg
Hexachloroethane		<MDL	20	39.5	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.8	ug/Kg		<MDL	16	32	ug/Kg
Indeno(1,2,3-Cd)Pyrene		<MDL	12	23.7	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.5	19.1	ug/Kg		<MDL	9.6	19.2	ug/Kg
Isophorone		<MDL	25	50	ug/Kg		<MDL	20	39.8	ug/Kg		<MDL	20	40.3	ug/Kg		<MDL	20	40.5	ug/Kg
Naphthalene		<MDL	18	36.8	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.7	ug/Kg		<MDL	15	29.9	ug/Kg
Nitrobenzene		<MDL	21	42.1	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.9	ug/Kg		<MDL	17	34.1	ug/Kg
N-Nitrosodimethylamine		<MDL	26	52.6	ug/Kg		<MDL	21	41.9	ug/Kg		<MDL	21	42.4	ug/Kg		<MDL	21	42.6	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	12	23.7	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.5	19.1	ug/Kg		<MDL	9.6	19.2	ug/Kg
N-Nitrosodiphenylamine		<MDL	26	52.6	ug/Kg		<MDL	21	41.9	ug/Kg		<MDL	21	42.4	ug/Kg		<MDL	21	42.6	ug/Kg
Pentachlorophenol		<MDL	8.8	35.1	ug/Kg		<MDL	7	28	ug/Kg		<MDL	7.1	28.3	ug/Kg		<MDL	7.1	28.5	ug/Kg
Phenanthrene	6.3	<RDL	5.3	10.5	ug/Kg	19.4		4.2	8.39	ug/Kg		<MDL	4.2	8.48	ug/Kg		<MDL	4.3	8.53	ug/Kg
Phenol	16	<RDL	12	23.7	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.5	19.1	ug/Kg		<MDL	9.6	19.2	ug/Kg
Pyrene	16.6		5.3	10.5	ug/Kg	21.4		4.2	8.39	ug/Kg		<MDL	4.2	8.48	ug/Kg		<MDL	4.3	8.53	ug/Kg
Pyridine		<MDL	36	70.1	ug/Kg		<MDL	28	55.9	ug/Kg		<MDL	29	56.5	ug/Kg		<MDL	29	56.8	ug/Kg
M=OR EPA 8081A/8082																				
Aroclor 1016																	<MDL	1.4	2.67	ug/Kg
Aroclor 1221																	<MDL	2.7	5.33	ug/Kg
Aroclor 1232																	<MDL	2.7	5.33	ug/Kg
Aroclor 1242																	<MDL	1.4	2.67	ug/Kg
Aroclor 1248																	<MDL	1.4	2.67	ug/Kg
Aroclor 1254																	<MDL	1.4	2.67	ug/Kg
Aroclor 1260																	<MDL	1.4	2.67	ug/Kg
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	66	66	mg/Kg		<MDL	52	52	mg/Kg		<MDL	53	53	mg/Kg		<MDL	53	53	mg/Kg
Gasoline Range (C7 Thru C12)		<MDL	26	26	mg/Kg		<MDL	21	21	mg/Kg		<MDL	21	21	mg/Kg		<MDL	21	21	mg/Kg
Lube Oil Range (>C24)		<MDL	130	130	mg/Kg		<MDL	100	100	mg/Kg		<MDL	110	110	mg/Kg		<MDL	110	110	mg/Kg

	Locator:	NSDD01				Locator:	NSDD01				Locator:	NSDD01				Locator:	NSDD01			
	Station:	Lost Lake Park				Station:	Lost Lake Park				Station:	Lost Lake Park - Field Replicate				Station:	Lost Lake Park - Field Replicate			
	Elev:	+6.5 ft MLLW (sheen)				Elev:	+3.8 ft MLLW				Elev:	+11 ft MLLW				Elev:	+6.5 ft MLLW (sheen)			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-17				Lab ID:	L33677-18				Lab ID:	L33677-19				Lab ID:	L33677-20			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	73.7				% Solids:	76.1				% Solids:	92.4				% Solids:	74.4			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	14.5		0.5	1	%	14.4		0.5	1	%	2.1		0.5	1	%	13.6		0.5	1	%
Clay *	4.6	E	0.5	1	%	3.9	E	0.5	1	%	1.1	E	0.5	1	%	5	E	0.5	1	%
Silt *	9.9		0.5	1	%	10.5		0.5	1	%	1.1		0.5	1	%	8.6		0.5	1	%
Sand *	86.5		0.1	1	%	84.5		0.1	1	%	63		0.1	1	%	87.7		0.1	1	%
Gravel *		<MDL	0.1	1	%	2.9		0.1	1	%	36.8		0.1	1	%		<MDL	0.1	1	%
p-2.00(less than) *		<MDL	0.1	1	%	1.7		0.1	1	%	25		0.1	1	%		<MDL	0.1	1	%
p-2.00 *		<MDL	0.1	1	%	0.6	<RDL	0.1	1	%	3.2		0.1	1	%		<MDL	0.1	1	%
p-1.00 *		<MDL	0.1	1	%	0.5	<RDL	0.1	1	%	8.6		0.1	1	%		<MDL	0.1	1	%
p+0.00 *		<MDL	0.1	1	%	0.4	<RDL	0.1	1	%	10.7		0.1	1	%	0.1	<RDL	0.1	1	%
p+1.00 *	1.3		0.1	1	%	1.8		0.1	1	%	20.2		0.1	1	%	1.5		0.1	1	%
p+2.00 *	18.6		0.1	1	%	16.2		0.1	1	%	19.2		0.1	1	%	19.4		0.1	1	%
p+3.00 *	47		0.1	1	%	41.7		0.1	1	%	12.2		0.1	1	%	45.6		0.1	1	%
p+4.00 *	19.6		0.1	1	%	24.5		0.1	1	%	0.5	<RDL	0.1	1	%	21.2		0.1	1	%
p+5.00 *	5.3		0.5	1	%	6.5		0.5	1	%	0.5	<RDL	0.5	1	%	4.3		0.5	1	%
p+6.00 *	1.3		0.5	1	%	2.6		0.5	1	%	0.5	<RDL	0.5	1	%	2.1		0.5	1	%
p+7.00 *	2.6		0.5	1	%	1.3		0.5	1	%		<MDL	0.5	1	%	2.1		0.5	1	%
p+8.00 *	0.7	<RDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+9.00 *	1.3		0.5	1	%	2		0.5	1	%		<MDL	0.5	1	%	2.1		0.5	1	%
p+10.0(equal/more than) *	3.3		0.5	1	%	2		0.5	1	%	1.1		0.5	1	%	2.9		0.5	1	%
M=CV SM2540-G																				
Total Solids *	73.7		0.005	0.01	%	76.1		0.005	0.01	%	92.4		0.005	0.01	%	74.4		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon	4530		520	1040	mg/Kg	1590		510	1020	mg/Kg		<MDL	490	979	mg/Kg	1480		510	1020	mg/Kg
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.35	0.719	ug/Kg		<MDL	0.34	0.696	ug/Kg		<MDL	0.28	0.574	ug/Kg		<MDL	0.35	0.712	ug/Kg
1,2-Dichlorobenzene		<MDL	0.35	0.719	ug/Kg		<MDL	0.34	0.696	ug/Kg		<MDL	0.28	0.574	ug/Kg		<MDL	0.35	0.712	ug/Kg
1,2-Diphenylhydrazine		<MDL	14	27.1	ug/Kg		<MDL	13	26.3	ug/Kg		<MDL	11	21.6	ug/Kg		<MDL	13	26.9	ug/Kg
1,3-Dichlorobenzene		<MDL	0.35	0.719	ug/Kg		<MDL	0.34	0.696	ug/Kg		<MDL	0.28	0.574	ug/Kg		<MDL	0.35	0.712	ug/Kg
1,4-Dichlorobenzene		<MDL	0.18	0.358	ug/Kg		<MDL	0.17	0.347	ug/Kg		<MDL	0.14	0.286	ug/Kg		<MDL	0.17	0.355	ug/Kg
2,4,5-Trichlorophenol		<MDL	16	32.6	ug/Kg		<MDL	16	31.5	ug/Kg		<MDL	13	26	ug/Kg		<MDL	16	32.3	ug/Kg
2,4,6-Trichlorophenol		<MDL	18	35.3	ug/Kg		<MDL	17	34.2	ug/Kg		<MDL	14	28.1	ug/Kg		<MDL	17	34.9	ug/Kg
2,4-Dichlorophenol		<MDL	22	43.4	ug/Kg		<MDL	21	42	ug/Kg		<MDL	17	34.6	ug/Kg		<MDL	22	43	ug/Kg
2,4-Dimethylphenol		<MDL,X	9.5	19	ug/Kg		<MDL,X	9.2	18.4	ug/Kg		<MDL,X	7.6	15.2	ug/Kg		<MDL,X	9.4	18.8	ug/Kg
2,4-Dinitrotoluene		<MDL	4.1	8.14	ug/Kg		<MDL	3.9	7.88	ug/Kg		<MDL	3.2	6.49	ug/Kg		<MDL	4	8.06	ug/Kg
2,6-Dinitrotoluene		<MDL	14	27.1	ug/Kg		<MDL	13	26.3	ug/Kg		<MDL	11	21.6	ug/Kg		<MDL	13	26.9	ug/Kg
2-Chloronaphthalene		<MDL	22	43.4	ug/Kg		<MDL	21	42	ug/Kg		<MDL	17	34.6	ug/Kg		<MDL	22	43	ug/Kg
2-Chlorophenol		<MDL	11	21.7	ug/Kg		<MDL	11	21	ug/Kg		<MDL	8.7	17.3	ug/Kg		<MDL	11	21.5	ug/Kg
2-Methylnaphthalene		<MDL	19	38	ug/Kg		<MDL	18	36.8	ug/Kg		<MDL	15	30.3	ug/Kg		<MDL	19	37.6	ug/Kg
2-Methylphenol		<MDL	22	43.4	ug/Kg		<MDL	21	42	ug/Kg		<MDL	17	34.6	ug/Kg		<MDL	22	43	ug/Kg
2-Nitrophenol		<MDL	20	40.7	ug/Kg		<MDL	20	39.4	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	20	40.3	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	12	24.4	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	9.7	19.5	ug/Kg		<MDL	12	24.2	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	18	35.3	ug/Kg		<MDL	17	34.2	ug/Kg		<MDL	14	28.1	ug/Kg		<MDL	17	34.9	ug/Kg
4-Methylphenol		<MDL	22	43.4	ug/Kg		<MDL	21	42	ug/Kg		<MDL	17	34.6	ug/Kg		<MDL	22	43	ug/Kg
Acenaphthene		<MDL	9.5	19	ug/Kg		<MDL	9.2	18.4	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	9.4	18.8	ug/Kg
Acenaphthylene		<MDL	20	40.7	ug/Kg		<MDL	20	39.4	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	20	40.3	ug/Kg
Aniline		<MDL,X	26	51.6	ug/Kg		<MDL,X	25	49.9	ug/Kg		<MDL,X	21	41.1	ug/Kg		<MDL,X	26	51.1	ug/Kg
Anthracene		<MDL	5.4	10.9	ug/Kg	5.4	<RDL	5.3	10.5	ug/Kg		<MDL	4.3	8.66	ug/Kg		<MDL	5.4	10.8	ug/Kg
Benzo(a)anthracene	6.8		2.7	5.43	ug/Kg	9.04		2.6	5.26	ug/Kg		<MDL	2.2	4.33	ug/Kg	7.2		2.7	5.38	ug/Kg
Benzo(a)pyrene		<MDL	4.1	8.14	ug/Kg	5.9	<RDL	3.9	7.88	ug/Kg		<MDL	3.2	6.49	ug/Kg		<MDL	4	8.06	ug/Kg
Benzo(b)fluoranthene	7.7	<RDL	4.1	8.14	ug/Kg	8.87		3.9	7.88	ug/Kg		<MDL	3.2	6.49	ug/Kg	8.06	RDL	4	8.06	ug/Kg
Benzo(g,h,i)perylene		<MDL	11	21.7	ug/Kg		<MDL	11	21	ug/Kg		<MDL	8.7	17.3	ug/Kg		<MDL	11	21.5	ug/Kg
Benzo(k)fluoranthene	6.8	<RDL	4.1	8.14	ug/Kg	7.1	<RDL	3.9	7.88	ug/Kg		<MDL	3.2	6.49	ug/Kg	6.6	<RDL	4	8.06	ug/Kg
Benzoic Acid	79	<RDL	18	90.5	ug/Kg	138		17	87.6	ug/Kg		<MDL	14	72.2	ug/Kg	104		17	89.7	ug/Kg
Benzyl Alcohol		<MDL	8.1	16.3	ug/Kg		<MDL	7.9	15.8	ug/Kg		<MDL	6.5	13	ug/Kg		<MDL	8.1	16.1	ug/Kg
Benzyl Butyl Phthalate	12	<RDL	8.1	16.3	ug/Kg		<MDL	7.9	15.8	ug/Kg		<MDL	6.5	13	ug/Kg		<MDL	8.1	16.1	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	23	46.1	ug/Kg		<MDL	22	44.7	ug/Kg		<MDL	18	36.8	ug/Kg		<MDL	23	45.7	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	20	40.7	ug/Kg		<MDL	20	39.4	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	20	40.3	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	20	40.7	ug/Kg		<MDL	20	39.4	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	20	40.3	ug/Kg
Bis(2-Ethylhexyl)Phthalate	15	<RDL,B	9.1	19	ug/Kg	13	<RDL,B	8.8	18.4	ug/Kg	9.3	<RDL,B	7.3	15.2	ug/Kg	13	<RDL,B	9	18.8	ug/Kg
Caffeine		<MDL	8.1	16.3	ug/Kg		<MDL	7.9	15.8	ug/Kg		<MDL	6.5	13	ug/Kg		<MDL	8.1	16.1	ug/Kg
Carbazole		<MDL	9.5	19	ug/Kg		<MDL	9.2	18.4	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	9.4	18.8	ug/Kg
Chrysene	8.3	<RDL	5.4	10.9	ug/Kg	8.4	<RDL	5.3	10.5	ug/Kg		<MDL	4.3	8.66	ug/Kg	8.2	<RDL	5.4	10.8	ug/Kg
Coprostanol		<MDL	19	38	ug/Kg		<MDL	18	36.8	ug/Kg		<MDL	15	30.3	ug/Kg		<MDL	19	37.6	ug/Kg
Dibenzo(a,h)anthracene		<MDL	9.5	19	ug/Kg		<MDL	9.2	18.4	ug/Kg		<MDL	7.6	15.2	ug/Kg		<MDL	9.4	18.8	ug/Kg
Dibenzofuran		<MDL	19	38	ug/Kg		<MDL	18	36.8	ug/Kg		<MDL	15	30.3	ug/Kg		<MDL	19	37.6	ug/Kg
Diethyl Phthalate		<MDL	8.1	16.3	ug/Kg		<MDL	7.9	15.8	ug/Kg		<MDL	6.5	13	ug/Kg		<MDL	8.1	16.1	ug/Kg
Dimethyl Phthalate		<MDL	15	29.9	ug/Kg		<MDL	14	28.9	ug/Kg		<MDL	12	23.8	ug/Kg		<MDL	15	29.6	ug/Kg
Di-N-Butyl Phthalate	19.9	B	6.8	13.6	ug/Kg	21.2	B	6.6	13.1	ug/Kg	16.3	B	5.4	10.8	ug/Kg	18.1	B	6.7	13.4	ug/Kg
Di-N-Octyl Phthalate		<MDL	11	21.7	ug/Kg		<MDL	11	21	ug/Kg		<MDL	8.7	17.3	ug/Kg		<MDL	11	21.5	ug/Kg
Fluoranthene		<MDL	11	21.7	ug/Kg	13	<RDL	11	21	ug/Kg		<MDL	8.7	17.3	ug/Kg	21.5	RDL	11	21.5	ug/Kg
Fluorene		<MDL	18	29.9	ug/Kg		<MDL	17	28.9	ug/Kg		<MDL	14	23.8	ug/Kg		<MDL	17	29.6	ug/Kg
Hexachlorobenzene		<MDL	0.9	1.8	ug/Kg		<MDL	0.87	1.75	ug/Kg		<MDL	0.71	1.44	ug/Kg		<MDL	0.89	1.79	ug/Kg
Hexachlorobutadiene		<MDL	1	2.04	ug/Kg		<MDL	0.99	1.97	ug/Kg		<MDL	0.81	1.62	ug/Kg		<MDL	1	2.02	ug/Kg
Hexachloroethane		<MDL	20	40.7	ug/Kg		<MDL	20	39.4	ug/Kg		<MDL	16	32.5	ug/Kg		<MDL	20	40.3	ug/Kg
Indeno(1,2,3-Cd)Pyrene		<MDL	12	24.4	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	9.7	19.5	ug/Kg		<MDL	12	24.2	ug/Kg
Isophorone		<MDL	26	51.6	ug/Kg		<MDL	25	49.9	ug/Kg		<MDL	21	41.1	ug/Kg		<MDL	26	51.1	ug/Kg
Naphthalene		<MDL	19	38	ug/Kg		<MDL	18	36.8	ug/Kg		<MDL	15	30.3	ug/Kg		<MDL	19	37.6	ug/Kg
Nitrobenzene		<MDL	22	43.4	ug/Kg		<MDL	21	42	ug/Kg		<MDL	17	34.6	ug/Kg		<MDL	22	43	ug/Kg
N-Nitrosodimethylamine		<MDL	27	54.3	ug/Kg		<MDL	26	52.6	ug/Kg		<MDL	22	43.3	ug/Kg		<MDL	27	53.8	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	12	24.4	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	9.7	19.5	ug/Kg		<MDL	12	24.2	ug/Kg
N-Nitrosodiphenylamine		<MDL	27	54.3	ug/Kg		<MDL	26	52.6	ug/Kg		<MDL	22	43.3	ug/Kg		<MDL	27	53.8	ug/Kg
Pentachlorophenol		<MDL	9.1	36.2	ug/Kg		<MDL	8.8	35.1	ug/Kg		<MDL	7.3	28.9	ug/Kg		<MDL	9	35.9	ug/Kg
Phenanthrene		<MDL	5.4	10.9	ug/Kg	6.6	<RDL	5.3	10.5	ug/Kg		<MDL	4.3	8.66	ug/Kg	6.7	<RDL	5.4	10.8	ug/Kg
Phenol		<MDL	12	24.4	ug/Kg		<MDL	12	23.7	ug/Kg		<MDL	9.7	19.5	ug/Kg		<MDL	12	24.2	ug/Kg
Pyrene	8.5	<RDL	5.4	10.9	ug/Kg	11.6		5.3	10.5	ug/Kg		<MDL	4.3	8.66	ug/Kg	15.6		5.4	10.8	ug/Kg
Pyridine		<MDL	37	72.3	ug/Kg		<MDL	35	70	ug/Kg		<MDL	29	57.7	ug/Kg		<MDL	36	71.6	ug/Kg
M=OR EPA 8081A/8082																				
Aroclor 1016		<MDL	1.8	3.39	ug/Kg		<MDL	1.7	3.29	ug/Kg		<MDL	1.4	2.71	ug/Kg		<MDL	1.7	3.36	ug/Kg
Aroclor 1221		<MDL	3.4	6.78	ug/Kg		<MDL	3.3	6.57	ug/Kg		<MDL	2.7	5.41	ug/Kg		<MDL	3.4	6.72	ug/Kg
Aroclor 1232		<MDL	3.4	6.78	ug/Kg		<MDL	3.3	6.57	ug/Kg		<MDL	2.7	5.41	ug/Kg		<MDL	3.4	6.72	ug/Kg
Aroclor 1242		<MDL	1.8	3.39	ug/Kg		<MDL	1.7	3.29	ug/Kg		<MDL	1.4	2.71	ug/Kg		<MDL	1.7	3.36	ug/Kg
Aroclor 1248		<MDL	1.8	3.39	ug/Kg		<MDL	1.7	3.29	ug/Kg		<MDL	1.4	2.71	ug/Kg		<MDL	1.7	3.36	ug/Kg
Aroclor 1254		<MDL	1.8	3.39	ug/Kg		<MDL	1.7	3.29	ug/Kg		<MDL	1.4	2.71	ug/Kg		<MDL	1.7	3.36	ug/Kg
Aroclor 1260		<MDL	1.8	3.39	ug/Kg		<MDL	1.7	3.29	ug/Kg		<MDL	1.4	2.71	ug/Kg		<MDL	1.7	3.36	ug/Kg
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	68	68	mg/Kg		<MDL	66	66	mg/Kg		<MDL	54	54	mg/Kg		<MDL	67	67	mg/Kg
Gasoline Range (C7 Thru C12)		<MDL	27	27	mg/Kg		<MDL	26	26	mg/Kg		<MDL	22	22	mg/Kg		<MDL	27	27	mg/Kg
Lube Oil Range (>C24)		<MDL	140	140	mg/Kg		<MDL	130	130	mg/Kg		<MDL	110	110	mg/Kg		<MDL	130	130	mg/Kg

	Locator:	NSDD01				Locator:	NRIY01				Locator:	NRIY01				Locator:	NRIY01			
	Station:	Lost Lake Park - Field Replicate				Station:	Tallequah Ferry Dock				Station:	Tallequah Ferry Dock				Station:	Tallequah Ferry Dock			
	Elev:	+3.8 ft MLLW				Elev:	+10.9 ft MLLW				Elev:	+7 ft MLLW				Elev:	+3.3 ft MLLW			
	Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004				Sampled:	Oct 26, 2004			
	Lab ID:	L33677-21				Lab ID:	L33677-22				Lab ID:	L33677-23				Lab ID:	L33677-24			
	Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED				Matrix:	SALTWTRSED			
	% Solids:	74.8				% Solids:	95.4				% Solids:	95.9				% Solids:	81.7			
	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Uni
		- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis			
M=CV ASTM D422																				
Fines *	12.4		0.5	1	%	1	RDL	0.5	1	%	1.5		0.5	1	%	1.6		0.5	1	%
Clay *	3.7		0.5	1	%	0.5	<RDL	0.5	1	%	1	RDL	0.5	1	%	1.1		0.5	1	%
Silt *	8.7		0.5	1	%	0.5	<RDL	0.5	1	%	0.5	<RDL	0.5	1	%	0.5	<RDL	0.5	1	%
Sand *	86		0.1	1	%	46.2		0.1	1	%	52.3		0.1	1	%	56.5		0.1	1	%
Gravel *	0.3	<RDL,E	0.1	1	%	52.4	E	0.1	1	%	47.5	E	0.1	1	%	43	E	0.1	1	%
p-2.00(less than) *		<MDL	0.1	1	%	25.2		0.1	1	%	31.2		0.1	1	%	26.1		0.1	1	%
p-2.00 *		<MDL	0.1	1	%	4.6		0.1	1	%	4.7		0.1	1	%	3.1		0.1	1	%
p-1.00 *	0.3	<RDL	0.1	1	%	22.5		0.1	1	%	11.6		0.1	1	%	13.8		0.1	1	%
p+0.00 *	0.6	<RDL	0.1	1	%	22.8		0.1	1	%	13.9		0.1	1	%	12.5		0.1	1	%
p+1.00 *	2		0.1	1	%	18.1		0.1	1	%	23.4		0.1	1	%	25.6		0.1	1	%
p+2.00 *	18.3		0.1	1	%	4.7		0.1	1	%	12.1		0.1	1	%	16.3		0.1	1	%
p+3.00 *	41.9		0.1	1	%	0.4	<RDL	0.1	1	%	2.5		0.1	1	%	1.6		0.1	1	%
p+4.00 *	23.1		0.1	1	%	0.1	<RDL	0.1	1	%	0.3	<RDL	0.1	1	%	0.5	<RDL	0.1	1	%
p+5.00 *	5		0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+6.00 *	1.9		0.5	1	%		<MDL	0.5	1	%	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%
p+7.00 *	1.9		0.5	1	%	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%	0.5	<RDL	0.5	1	%
p+8.00 *		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%		<MDL	0.5	1	%
p+9.00 *	0.6	<RDL	0.5	1	%		<MDL	0.5	1	%	0.5	<RDL	0.5	1	%		<MDL	0.5	1	%
p+10.0(equal/more than) *	3.1		0.5	1	%	0.5	<RDL	0.5	1	%	0.5	<RDL	0.5	1	%	1.1		0.5	1	%
M=CV SM2540-G																				
Total Solids *	74.8		0.005	0.01	%	95.4		0.005	0.01	%	95.9		0.005	0.01	%	81.7		0.005	0.01	%
M=CV EPA9060-PSEP96																				
Total Organic Carbon	1640		490	988	mg/Kg	720	<RDL	510	1030	mg/Kg	590	<RDL	500	1000	mg/Kg	1020		490	990	mg/
M=OR EPA 3550B/8270C																				
1,2,4-Trichlorobenzene		<MDL	0.35	0.709	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.27	0.553	ug/Kg		<MDL	0.32	0.649	ug/
1,2-Dichlorobenzene		<MDL	0.35	0.709	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.27	0.553	ug/Kg		<MDL	0.32	0.649	ug/
1,2-Diphenylhydrazine		<MDL	13	26.7	ug/Kg		<MDL	10	21	ug/Kg		<MDL	10	20.9	ug/Kg		<MDL	12	24.5	ug/
1,3-Dichlorobenzene		<MDL	0.35	0.709	ug/Kg		<MDL	0.27	0.556	ug/Kg		<MDL	0.27	0.553	ug/Kg		<MDL	0.32	0.649	ug/
1,4-Dichlorobenzene		<MDL	0.17	0.353	ug/Kg		<MDL	0.14	0.277	ug/Kg		<MDL	0.14	0.275	ug/Kg		<MDL	0.16	0.323	ug/
2,4,5-Trichlorophenol		<MDL	16	32.1	ug/Kg		<MDL	13	25.2	ug/Kg		<MDL	13	25	ug/Kg		<MDL	15	29.4	ug/
2,4,6-Trichlorophenol		<MDL	17	34.8	ug/Kg		<MDL	14	27.3	ug/Kg		<MDL	14	27.1	ug/Kg		<MDL	16	31.8	ug/
2,4-Dichlorophenol		<MDL	21	42.8	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.4	ug/Kg		<MDL	20	39.2	ug/
2,4-Dimethylphenol		<MDL	9.4	18.7	ug/Kg		<MDL	7.3	14.7	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.6	17.1	ug/
2,4-Dinitrotoluene		<MDL	4	8.02	ug/Kg		<MDL	3.1	6.29	ug/Kg		<MDL	3.1	6.26	ug/Kg		<MDL	3.7	7.34	ug/
2,6-Dinitrotoluene		<MDL	13	26.7	ug/Kg		<MDL	10	21	ug/Kg		<MDL	10	20.9	ug/Kg		<MDL	12	24.5	ug/
2-Chloronaphthalene		<MDL	21	42.8	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.4	ug/Kg		<MDL	20	39.2	ug/
2-Chlorophenol		<MDL	11	21.4	ug/Kg		<MDL	8.4	16.8	ug/Kg		<MDL	8.3	16.7	ug/Kg		<MDL	9.8	19.6	ug/
2-Methylnaphthalene		<MDL	19	37.4	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.2	ug/Kg		<MDL	17	34.3	ug/
2-Methylphenol		<MDL	21	42.8	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.4	ug/Kg		<MDL	20	39.2	ug/
2-Nitrophenol		<MDL	20	40.1	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.3	ug/Kg		<MDL	18	36.7	ug/
4-Bromophenyl Phenyl Ether		<MDL	12	24.1	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.4	18.8	ug/Kg		<MDL	11	22	ug/
4-Chlorophenyl Phenyl Ether		<MDL	17	34.8	ug/Kg		<MDL	14	27.3	ug/Kg		<MDL	14	27.1	ug/Kg		<MDL	16	31.8	ug/
4-Methylphenol		<MDL	21	42.8	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.4	ug/Kg		<MDL	20	39.2	ug/
Acenaphthene		<MDL	9.4	18.7	ug/Kg	16.9		7.3	14.7	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.6	17.1	ug/
Acenaphthylene		<MDL	20	40.1	ug/Kg	27	<RDL	16	31.4	ug/Kg		<MDL	16	31.3	ug/Kg		<MDL	18	36.7	ug/
Aniline		<MDL	25	50.8	ug/Kg		<MDL	20	39.8	ug/Kg		<MDL	20	39.6	ug/Kg		<MDL	23	46.5	ug/
Anthracene		<MDL	5.3	10.7	ug/Kg	52.8		4.2	8.39	ug/Kg	4.9	<RDL	4.2	8.34	ug/Kg	5.8	<RDL	4.9	9.79	ug/
Benzo(a)anthracene	8.66		2.7	5.35	ug/Kg	206		2.1	4.19	ug/Kg	9.12		2.1	4.17	ug/Kg	15.2		2.4	4.9	ug/
Benzo(a)pyrene	7.2	<RDL	4	8.02	ug/Kg	102		3.1	6.29	ug/Kg	9.04		3.1	6.26	ug/Kg	15.1		3.7	7.34	ug/
Benzo(b)fluoranthene	7.9	<RDL	4	8.02	ug/Kg	184		3.1	6.29	ug/Kg	16.1		3.1	6.26	ug/Kg	19.7		3.7	7.34	ug/
Benzo(g,h,i)perylene		<MDL	11	21.4	ug/Kg	34.5		8.4	16.8	ug/Kg		<MDL	8.3	16.7	ug/Kg	11	<RDL	9.8	19.6	ug/
Benzo(k)fluoranthene	7.4	<RDL,L	4	8.02	ug/Kg	153	L	3.1	6.29	ug/Kg	13	L	3.1	6.26	ug/Kg	18.5	L	3.7	7.34	ug/
Benzoic Acid	297	B	17	89.2	ug/Kg	94.3	B	14	69.9	ug/Kg	86.4	B	14	69.6	ug/Kg	116	B	16	81.6	ug/
Benzyl Alcohol		<MDL	8	16	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.3	12.5	ug/Kg		<MDL	7.3	14.7	ug/
Benzyl Butyl Phthalate		<MDL	8	16	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.3	12.5	ug/Kg		<MDL	7.3	14.7	ug/
Bis(2-Chloroethoxy)Methane		<MDL	23	45.5	ug/Kg		<MDL	18	35.6	ug/Kg		<MDL	18	35.5	ug/Kg		<MDL	21	41.6	ug/
Bis(2-Chloroethyl)Ether		<MDL	20	40.1	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.3	ug/Kg		<MDL	18	36.7	ug/
Bis(2-Chloroisopropyl)Ether		<MDL	20	40.1	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.3	ug/Kg		<MDL	18	36.7	ug/
Bis(2-Ethylhexyl)Phthalate		<MDL,B	9	18.7	ug/Kg	32.6	B	7	14.7	ug/Kg	31.6	B	7	14.6	ug/Kg	23.5	B	8.2	17.1	ug/
Caffeine		<MDL	8	16	ug/Kg		<MDL	6.3	12.6	ug/Kg		<MDL	6.3	12.5	ug/Kg		<MDL	7.3	14.7	ug/
Carbazole		<MDL	9.4	18.7	ug/Kg	54.6		7.3	14.7	ug/Kg		<MDL	7.3	14.6	ug/Kg		<MDL	8.6	17.1	ug/
Chrysene	6.3	<RDL	5.3	10.7	ug/Kg	411		4.2	8.39	ug/Kg	16.1		4.2	8.34	ug/Kg	17.3		4.9	9.79	ug/
Coprostanol		<MDL	19	37.4	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.2	ug/Kg		<MDL	17	34.3	ug/
Dibenzo(a,h)anthracene		<MDL,L	9.4	18.7	ug/Kg	18.6	L	7.3	14.7	ug/Kg		<MDL,L	7.3	14.6	ug/Kg		<MDL,L	8.6	17.1	ug/
Dibenzofuran		<MDL	19	37.4	ug/Kg		<MDL	15	29.4	ug/Kg		<MDL	15	29.2	ug/Kg		<MDL	17	34.3	ug/
Diethyl Phthalate		<MDL,E	8	16	ug/Kg		<MDL,E	6.3	12.6	ug/Kg		<MDL,E	6.3	12.5	ug/Kg		<MDL,E	7.3	14.7	ug/
Dimethyl Phthalate		<MDL	15	29.4	ug/Kg		<MDL	12	23.1	ug/Kg		<MDL	11	22.9	ug/Kg		<MDL	13	26.9	ug/
Di-N-Butyl Phthalate	24.5	B	6.7	13.4	ug/Kg		<MDL,B	5.2	10.5	ug/Kg	18.2	B	5.2	10.4	ug/Kg	24.5	B	6.1	12.2	ug/
Di-N-Octyl Phthalate		<MDL	11	21.4	ug/Kg		<MDL	8.4	16.8	ug/Kg		<MDL	8.3	16.7	ug/Kg		<MDL	9.8	19.6	ug/
Fluoranthene	11	<RDL	11	21.4	ug/Kg	2490		8.4	16.8	ug/Kg	33.6		8.3	16.7	ug/Kg	24.6		9.8	19.6	ug/
Fluorene		<MDL	17	29.4	ug/Kg	52.4		14	23.1	ug/Kg		<MDL	14	22.9	ug/Kg		<MDL	16	26.9	ug/
Hexachlorobenzene		<MDL	0.88	1.78	ug/Kg		<MDL	0.69	1.39	ug/Kg		<MDL	0.69	1.39	ug/Kg		<MDL	0.81	1.63	ug/
Hexachlorobutadiene		<MDL	1	2.01	ug/Kg		<MDL	0.79	1.57	ug/Kg		<MDL	0.78	1.56	ug/Kg		<MDL	0.92	1.84	ug/
Hexachloroethane		<MDL	20	40.1	ug/Kg		<MDL	16	31.4	ug/Kg		<MDL	16	31.3	ug/Kg		<MDL	18	36.7	ug/
Indeno(1,2,3-Cd)Pyrene		<MDL	12	24.1	ug/Kg	38.2		9.4	18.9	ug/Kg		<MDL	9.4	18.8	ug/Kg	12	<RDL	11	22	ug/
Isophorone		<MDL	25	50.8	ug/Kg		<MDL	20	39.8	ug/Kg		<MDL	20	39.6	ug/Kg		<MDL	23	46.5	ug/
Naphthalene		<MDL,L	19	37.4	ug/Kg		<MDL,L	15	29.4	ug/Kg		<MDL,L	15	29.2	ug/Kg		<MDL,L	17	34.3	ug/
Nitrobenzene		<MDL	21	42.8	ug/Kg		<MDL	17	33.5	ug/Kg		<MDL	17	33.4	ug/Kg		<MDL	20	39.2	ug/
N-Nitrosodimethylamine		<MDL	27	53.5	ug/Kg		<MDL	21	41.9	ug/Kg		<MDL	21	41.7	ug/Kg		<MDL	24	49	ug/
N-Nitrosodi-N-Propylamine		<MDL	12	24.1	ug/Kg		<MDL	9.4	18.9	ug/Kg		<MDL	9.4	18.8	ug/Kg		<MDL	11	22	ug/
N-Nitrosodiphenylamine		<MDL	27	53.5	ug/Kg		<MDL	21	41.9	ug/Kg		<MDL	21	41.7	ug/Kg		<MDL	24	49	ug/
Pentachlorophenol		<MDL	9	35.7	ug/Kg		<MDL	7	28	ug/Kg		<MDL	7	27.8	ug/Kg		<MDL	8.2	32.7	ug/
Phenanthrene	6.7	<RDL	5.3	10.7	ug/Kg	893		4.2	8.39	ug/Kg	11.1		4.2	8.34	ug/Kg	10.3		4.9	9.79	ug/
Phenol	477	B	12	24.1	ug/Kg	16	<RDL,B	9.4	18.9	ug/Kg	13	<RDL,B	9.4	18.8	ug/Kg	25.8	B	11	22	ug/
Pyrene	9.1	<RDL	5.3	10.7	ug/Kg	1240		4.2	8.39	ug/Kg	21		4.2	8.34	ug/Kg	18.1		4.9	9.79	ug/
Pyridine		<MDL	36	71.3	ug/Kg		<MDL	28	55.9	ug/Kg		<MDL	28	55.6	ug/Kg		<MDL	33	65.2	ug/
M=OR EPA 8081A/8082																				
Aroclor 1016		<MDL	1.7	3.34	ug/Kg		<MDL	1.4	2.62	ug/Kg		<MDL	1.4	2.61	ug/Kg		<MDL	1.6	3.06	ug/
Aroclor 1221		<MDL	3.3	6.68	ug/Kg		<MDL	2.6	5.24	ug/Kg		<MDL	2.6	5.21	ug/Kg		<MDL	3.1	6.12	ug/
Aroclor 1232		<MDL	3.3	6.68	ug/Kg		<MDL	2.6	5.24	ug/Kg		<MDL	2.6	5.21	ug/Kg		<MDL	3.1	6.12	ug/
Aroclor 1242		<MDL	1.7	3.34	ug/Kg		<MDL	1.4	2.62	ug/Kg		<MDL	1.4	2.61	ug/Kg		<MDL	1.6	3.06	ug/
Aroclor 1248		<MDL	1.7	3.34	ug/Kg		<MDL	1.4	2.62	ug/Kg		<MDL	1.4	2.61	ug/Kg		<MDL	1.6	3.06	ug/
Aroclor 1254		<MDL	1.7	3.34	ug/Kg		<MDL	1.4	2.62	ug/Kg		<MDL	1.4	2.61	ug/Kg		<MDL	1.6	3.06	ug/
Aroclor 1260		<MDL	1.7	3.34	ug/Kg		<MDL	1.4	2.62	ug/Kg		<MDL	1.4	2.61	ug/Kg		<MDL	1.6	3.06	ug/
M=OR WDOE NWTPH-HCID																				
Diesel Range (>C12 Thru C24)		<MDL	67	67	mg/Kg		<MDL	52	52	mg/Kg		<MDL	52	52	mg/Kg		<MDL	61	61	mg/
Gasoline Range (C7 Thru C12)		<MDL	27	27	mg/Kg		<MDL	21	21	mg/Kg		<MDL	21	21	mg/Kg		<MDL	24	24	mg/
Lube Oil Range (>C24)		<MDL	130	130	mg/Kg		<MDL	100	100	mg/Kg		<MDL	100	100	mg/Kg		<MDL	120	120	mg/

* Wet-weight basis.

APPENDIX B
QUALITY ASSURANCE REVIEW NARRATIVE

Note: Available in hard copy only, upon request.