April 1, 2011

1-61M-123500

Mr. James Coombes
Senior Real Estate Entitlements Manager
Fred Meyer Stores, Inc.
3800 SE 22nd Avenue
Portland, Oregon 97202

Dear Mr. Coombes:

Re: Limited Phase II Environmental Site Assessment
109 North Water Street
Ellensburg, Washington 98926

AMEC Earth & Environmental, Inc. (AMEC) is pleased to provide the Fred Meyer Stores, Inc. (Fred Meyer) with this report summarizing the results of a Limited Phase II Environmental Site Assessment (ESA) performed at 109 North Water Street in Ellensburg, Washington (Site, Figure 1). Our work was conducted in general accordance with our Proposal to Conduct a Limited Phase II ESA (11 016) dated January 31, 2011.

PROJECT BACKGROUND

GN Northern performed a Phase I ESA of the Site for Fred Meyer in early December 2010 and late January 2011 (GN Northern, 2011). Based on the results of the Phase I ESA, the former wooden pallet manufacturing Site was designated as a High Potential Risk according to criteria in Kroger Specifications for a Phase I ESA. The following potential recognized environmental conditions (RECs) and conclusions were identified in the Phase I ESA Report (GN Northern, 2011).

- On-Site: Two potential on-site RECs were identified:
    1. A large walk-in freezer located on the ground floor below the office space was identified as potentially containing hazardous refrigerants.

    2. Dumpsters located on the exterior portions of the Site were observed to contain unidentified material in addition to wood and metal debris. The Phase I ESA Report indicated that this unidentified material should be treated as potentially hazardous until proven otherwise.

- Off-Site: A large number of properties within ¼ mile of the Site had records of leaking underground storage tanks that likely had contamination that "leached through the soil and groundwater to the property discussed".

The Phase I ESA Report noted that there were not currently, and reportedly have not been historically, underground or aboveground storage tanks located at the Site (GN Northern, 2011). The Phase I ESA Report included a photograph of a large number intermediate bulk containers (IBCs) stored on the Site. IBCs are large polyethylene tanks stored in metal mesh frames, and they typically have capacities of 150 to 550 gallons. IBCs, or tote tanks, are used to store and transfer a variety of materials, typically liquids, and sometimes hazardous materials. Although not clear from the report photo, some totes appeared to contain liquid. The contents of the IBCs were not identified in the Phase I ESA Report. A photograph of the interior of the building showed a number of 5-gallon containers identified as "cleaning chemicals". It appears that one of the containers contained a Valvoline product (label was illegible). Another container had "antifreeze" hand-written on it, and the container was roughly ½ full. The Phase I ESA Report recommended a limited Phase II ESA to assess the potential for soil and groundwater contamination at the Site.

GN Northern (2011) recommended a limited Phase II ESA to investigate the potential for soil and groundwater contamination at the site. The recommended scope of work consisted of three borings advanced to 15 feet below ground surface (bgs), soil sampling at 2.5- to 5-foot intervals, groundwater sampling, and analysis of the soil and water samples for petroleum, heavy metal, and halogenated organic compounds.

LIMITED SUBSURFACE INVESTIGATION

Scope of Work

AMEC (2011) developed the following scope of work for a limited subsurface investigation to address the on-site RECs identified in GN Northern's (2011) Phase I ESA Report:

- Prepare a Site-Specific Health and Safety Plan;
- Field-mark sampling locations, and coordinate utility locates;
- Advance four direct-push soil borings to a depth of 10 feet bgs at two hydraulically upgradient and two hydraulically downgradient locations.
- Collect continuous soil samples from the four borings, and field screen the samples for volatile organic compounds (VOCs) using a photoionization detector (PID);
- Collect a groundwater sample from each of the four borings at the depth at which groundwater is first encountered;
- Analyze up to two soil samples (near-surface and/or within zone of seasonal water table fluctuation) from each boring and four groundwater samples for the following:
    - Priority pollutant metals (13 metals[1]) by U.S. Environmental Protection Agency (EPA) Methods 6000/7000 series;
    - Total petroleum hydrocarbons (TPH) by Northwest Method NWTPH-HCID (with follow up analysis for Gasoline Range Organics [GROs] by Northwest Method

[1] Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc.

NWTPH-Gx and/or Diesel Range Organics [DROs] and Heavy Oil Range Organics [OROs] by method NWTPH-Dx, as appropriate);

- VOCs by EPA Method 8620;
- Polychlorinated Biphenyl's (PCBs) by EPA Method 8082 and Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 SIM if DROs or OROs are detected; and

- Prepare a letter report summarizing the results of the limited subsurface investigation.

The purpose of this limited subsurface investigation is to evaluate soil and groundwater quality at selected Site locations to evaluate whether RECs identified in the Phase I ESA or other environmental issues have resulted in environmental impact to Site soil or groundwater.

Site-Specific Health and Safety Plan Preparation

A Site-specific Health and Safety Plan (HASP), as required by the Industrial Safety and Health Act (WISHA), was prepared to cover field safety protocol for all AMEC employees active on the job.

Utility Location

Prior to conducting subsurface exploration activities, AMEC personnel field-marked soil and groundwater sampling locations and contacted local public utilities using the Washington Utility Notification Center to identify any underground utility lines coming onto the Site. AMEC also subcontracted a private utility locating service to further confirm the location of subsurface utilities in the immediate vicinity of the proposed sampling locations.

Direct-Push Drilling

Temporary direct-push soil borings were advanced at four locations (B1 through B4) on the Site on February 16, 2011 (Figure 2). Borings B2 is estimated to be at a hydraulically upgradient position, and borings B-1 and B-3 are estimated to be at hydraulically downgradient positions to the Site. Boring B-4 is located near a potential source area associated with the IBCs. The direct-push soil borings were completed by Pacific Soil & Water, LLC of Tigard, Oregon, a licensed well driller in the State of Washington.

The direct-push borings were advanced to a depth of 10 feet bgs. Cores from soil borings were continuously collected and logged for visual classification, soil conditions permitting, according to the Unified Soil Classification System. All soil samples were field-screened for the presence of VOCs using a PID. The character of the soil encountered in addition to any other field observations, were recorded on soil boring logs provided in Attachment A. Soil samples collected at the soil/groundwater interface in each boring were retained for laboratory analysis. In addition, one soil sample collected from 0- to 1-foot interval in boring B4 was retained for laboratory analysis. Boring B-4 is located within range of potential impact from liquid spills from nearby IBCs.

Groundwater samples were collected from the four borings using a peristaltic pump. Purged groundwater appeared moderately turbid. Groundwater samples were placed in new laboratory prepared containers.

Upon completion of the soil and groundwater sampling, all borings were abandoned with bentonite chips and hydrated in accordance with the Washington State well abandonment standards.

Subsurface Conditions

Shallow soils at the four boring locations consisted of approximately six to seven feet of sandy silt overlain by one foot of gravel fill. Deeper soils consisted of well-graded gravels and cobbles with some sand. Groundwater was first encountered in soil borings at five to seven feet bgs. No visual or olfactory indications of impact or elevated PID readings were observed in any of the soil borings.

ANALYTICAL RESULTS

Collected soil and groundwater samples were placed in new, laboratory-supplied containers. Samples were uniquely labeled, placed in an ice-chilled chest following collection, and transported to the analytical laboratory following chain-of-custody procedures. Analytical testing was performed by Apex Laboratories, Inc. in Tigard, Oregon. Laboratory reports and chain-of-custodies are provided in Attachment B. Soil and groundwater samples collected from direct-push soil borings were analyzed as described below.

Soil and groundwater samples from each of the four borings were analyzed for:

- TPHs by Method NWTPH-HCID;
- VOCs by EPA Method 8260B; and
- Priority Pollutant Metals by EPA Method 6020.

In addition two soil samples with oil-range petroleum hydrocarbon impact were analyzed for:

- PCBs by EPA Method 8082A; and
- PAHs by EPA Method 8270D SIM.

Soil Sample Results

The concentrations of constituents detected in soil samples from borings B1 through B4 are summarized in Table 1. Washington Department of Ecology (Ecology) Model Toxic Cleanup Act (MTCA) Method A or Method B cleanup levels and natural background metal concentrations for the Yakama Basin or Washington State (Ecology, 1994) are provided in Table 1 for preliminary screening purposes.

Several metals were detected in all five soil samples, including chromium, copper, lead, mercury, nickel, and zinc. All of the detected metals are below the Ecology MTCA cleanup levels. However, the concentrations of antimony (B4@0-1'), copper (B4@0-1'), lead (B1@5-6', B2@5-6', B4@0-1', and B4@6-7'), mercury (B3@5-6' and B4@0-1'), nickel (B3@5-6'), and zinc (B1@5-6' and B4@0-1') were above the regional Yakama Basin or Washington State

background metal concentrations. Overall the highest concentrations of copper, lead, mercury, nickel, and zinc were detected in the surface (0-1') soil sample collected at B4.

With the exception of tetrachloroethene (PCE) detected in B1@5-6' and B2@5-6', VOC concentrations were below method report limits (MRL). PCE was detected in B1@5-6' and B2@5-6' at concentrations of 59.4 micrograms per kilograms (µg/Kg) and 25.8 µg/Kg(estimated concentration), respectively. The PCE concentration in B1 exceeds the MTCA Method A cleanup level of 50 µg/Kg, which is based on the protection of groundwater for drinking use.

OROs were detected in B3@5-6' and B4@01' at concentrations of 176 milligrams per kilogram (mg/kg) and 236 mg/kg, respectively. These ORO concentrations are below the MTCA cleanup level of 2,000 mg/kg. Based on the ORO detections in the TPH-HCID results, B3@5-6' and B4@01' were analyzed for PCBs and PAHs. PCBs as Aroclors were not detected above MRLs in B3@5-6' or B4@0-1'. ,

Both carcinogenic and non-carcinogenic PAHs were detected in soil samples B3@5-6' and B4@01'; however, detected PAH concentrations were less than MTCA cleanup levels. For the carcinogenic PAHs, the total toxic equivalent concentration of benzo(a)pyrene for each sample was compared to the MTCA Method A cleanup level as outlined in WAC 173-340-708(8). The toxic equivalent calculations are presented in Table 2. The concentration of each carcinogenic PAH is multiplied by its corresponding toxicity equivalency factor (TEF) to obtain a toxic equivalent concentration of benzo(a)pyrene for the carcinogenic PAH constituent. For each sample, all the toxic equivalent concentrations are added within the sample to obtain the total toxic equivalent concentration of benzo(a)pyrene. The total toxic equivalent concentration for B3@5-6' and B4@0-1' are less than the Ecology Method A cleanup level for benzo(a)pyrene.

Groundwater Sample Results

The concentrations of total metals, VOCs and petroleum hydrocarbons detected in the groundwater samples are summarized in Table 3. Ecology MTCA Method A or B cleanup levels are provided in Table 3 for preliminary screening purposes.

Diesel-, oil-, and gasoline-range organics were not detected at or above the MRLs in any of the groundwater samples. Detected VOCs included bromodichloromethane at concentrations of 0.45 micrograms per Liter (µg/L) and 0.41 µg/L, chloroform at concentrations of 0.9 µg/L and 1.01 µg/L, and PCE at concentrations of 0.45 µg/L and 0.42 µg/L in B1 and B2, respectively. The VOC concentrations are less than the Ecology MTCA Method A or Method B cleanup levels.

Several metals including arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, and zinc were detected in one or more groundwater samples. Total arsenic detected in B1 (5.97 µg/L) and B3 (7.77 µg/L) exceeded the MTCA Method A groundwater cleanup level. Total chromium detected in B1 (160 µg/L), B2 (111 µg/L), B3 (223 µg/L), and B4 (73.8 µg/L) exceeded the MTCA Method A cleanup level of 50 µg/L. Total lead detected in B1 (25.4 µg/L), B2 (33.7 µg/L), and B3 (31.6 µg/L) exceeded the MTCA Method A cleanup level of 15 µg/L. Detected concentrations of the remaining metals did not exceed the MTCA Method A cleanup levels.

CONCLUSION AND RECOMMENDATIONS

Soil and groundwater were sampled from two hydraulically upgradient borings and two hydraulically downgradient borings at the Site. One surface soil sample (0-1'), four subsurface soil samples (5-7'), and four groundwater samples were submitted to Apex for laboratory analysis. A summary of the analytical results follows:

- Antimony, copper, lead, mercury, nickel, and zinc were detected in one or more soil samples at concentrations that exceeded Yakima Basin Background Levels; however, none of these metals were detected at concentrations that exceeded MTCA Method A or Method B cleanup levels. Detected chromium concentrations did not exceed Yakima Basin Background levels or MTCA cleanup levels. The highest concentration of antimony, copper, lead and zinc were detected in surface soil sample B4@0-1' collected near the IBCs.
- OROs were detected in B3@5-6' and B4@0-1' at concentrations less than MTCA cleanup levels.
- PAHs were detected in B3@5-6' and B4@0-1', but the total toxic equivalent concentration for these two samples are less than the Ecology Method A cleanup level for benzo(a)pyrene.
- PCBs were not detected above MRLs in either B3@5-6' or B4@0-1'.
- With the exception of PCE detected in B1@5-6' and B2@5-6', VOC concentrations were below MRLs. The PCE concentration of 59.4 µg/Kg in B1@5-6' exceeded the MTCA Method A cleanup level of 50 µg/Kg.
- Total arsenic, chromium, and lead were detected in two or more groundwater samples at concentrations that exceeded MTCA Method A cleanup levels. Total beryllium, cadmium, copper, mercury, nickel, and zinc concentrations detected in groundwater samples did not exceed MTCA cleanup levels.
- Bromodichloromethane, chloroform, and PCE were detected at concentrations less than MTCA cleanup levels in groundwater samples B1 and B2. Petroleum hydrocarbons were not detected in groundwater samples.

Soils and groundwater do not appear to have been significantly impacted from suspected constituents of concern associated with on-site activities. Although the detected concentration of PCE in soil sample B1@5-6' exceeded the MTCA Method A cleanup level for unrestricted land use. PCE detected in soil does not appear to have significantly impacted groundwater beneath the Site and appears to be limited in extent in soil. The elevated arsenic, chromium, and lead concentrations in groundwater may be attributed to the groundwater sample turbidity or natural background concentrations.

Although concentrations of several metals are greater than background concentrations, their concentrations do not exceed MTCA cleanup levels. Furthermore, the location with the highest concentrations of copper, lead, and zinc at boring B4 has the lowest corresponding concentrations in groundwater. An on-site source of the metals impact to groundwater has not been identified either from historic activities or soil sample laboratory results.

Additional investigation is warranted to define the source and lateral extent of the PCE-impacted soil in the vicinity of AMEC boring B1 (depths of 5 to 6 feet bgs). The detection of PCE in soil

and groundwater (albeit low levels) at borings B1 and B2 may be indicative of a larger contamination issue. Additional near-surface and subsurface soil sampling and analysis for VOCs within the immediate vicinity of boring B1 and B2 are recommended before leasing or purchasing this property. Also, the nature and extent of this contamination must be defined to evaluate overall risk to human health and environment, as well as select an appropriate cleanup or remedial action.

AMEC appreciates the opportunity to assist you with this important project. If you have any further questions or require additional information, please feel free to contact the undersigned at (503) 639-3400.

Sincerely,

AMEC Earth & Environmental, Inc.

Joe Fassio, RG
Geologist

Kurt Harrington, PE
Senor Associate Engineer

Attachments: Table 1: Constituents Detected in Soil
Table 2: Total Toxic Equivalent Concentration Calculation for Benzo(a)pyrene
Table 3: Constituents Detected in Groundwater

Figure 1: Site Location
Figure 2: Site Vicinity and Boring Locations

Attachment A: Boring Logs
Attachment B: Laboratory Analytical Results

JMF/lm/cw

REFERENCES

Ecology, 1994. Natural Background Soil Metals Concentrations in Washington State. Publication #94-115.

GN Northern, 2011. Report of Environmental Site Assessment, Fred Meyer Fueling Facility, Ellensburg, Washington, Project number 110-715. Dated January 24, 2011.

LIMITATIONS

This report was prepared exclusively for Fred Meyer by AMEC. The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions and qualifications set forth in this focused subsurface investigation. This report is intended to be used by Fred Meyer for the property at 109 North Water Street in Ellensburg, Washington only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this plan by any third party is at that party's sole risk.

AMEC services have been performed in accordance with the normal and reasonable standard of care exercised by similar professionals performing services under similar conditions and geographic locations. Except for our stated standard of care, no other warranties or guarantees are offered as part of AMEC's contracted services.

The purpose of an environmental site assessment is to reasonably evaluate the potential for adverse impact from past practices at a given property or neighboring properties. In performing an environmental site assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The professional opinions in this report are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at unsampled locations.

Finally, it should be noted that no subsurface exploration can be thorough enough to exclude the possible presence of hazardous materials or wastes at a given site. In cases where contaminants have not been discovered through exploration, this should not be construed as a guarantee that contaminants do not exist. At a given site, environmental conditions may exist that cannot be identified by visual observation. Where sample collection and testing have been performed, AMEC's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at unsampled locations.

TABLES

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Metals												
			Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
B1@5-6'	2/16/2011	5-6	1.32 U	2.64 U	1.32 U	1.32 U	**28.1**	**24.3**	**19.6**	0.106 U	**26.6**	2.64 U	1.32 U	1.32 U	**80.6**
B2@5-6'	2/16/2011	5-6	1.23 U	2.46 U	1.23 U	1.23 U	**15.9**	**15.1**	**11.4**	0.0986 U	**16.6**	2.46 U	1.23 U	1.23 U	**53.8**
B3@5-6'	2/16/2011	5-6	1.35 U	2.70 U	1.35 U	1.35 U	**30.9**	**19.6**	**7.2**	**0.13**	**79.5**	2.70 U	1.35 U	1.35 U	**48**
B4@0-1'	2/16/2011	0-1	**7.23**	2.51 U	1.26 U	1.26 U	**19.8**	**39.4**	**65.8**	**0.2**	**23.1**	2.51 U	1.26 U	1.26 U	**176**
B4@6-7'	2/16/2011	6-7	1.21 U	2.43 U	1.21 U	1.21 U	**14.9**	**15.4**	**24.1**	0.0971 U	**15.7**	2.43 U	1.21 U	1.21 U	**47.9**
MTCA Screening Levels			32[4]	20[1,2]	160[4]	2[1,2]	NL	2,960[4]	250[2]	2[1,2]	1,600[4]	400[4]	400[4]	5.6[4]	24,000[4]
Yakama Basin Background Levels -			5	5	2	1	38	27	11	0.05	46	0.78	0.61	NL	79

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Volatile Organic Compounds												
			Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/mg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	1290 U	16.1 U	32.3 U	32.3 U	32.3 U	64.6 U	323 U	646 U	64.6 U	64.6 U	64.6 U	32.3 U	32.3 U
B2@5-6'	2/16/2011	5-6	1080 U	13.4 U	26.9 U	26.9 U	26.9 U	53.8 U	269 U	538 U	53.8 U	53.8 U	53.8 U	26.9 U	26.9 U
B3@5-6'	2/16/2011	5-6	1260 U	15.8 U	31.6 U	31.6 U	31.6 U	63.1 U	316 U	631 U	63.1 U	63.1 U	63.1 U	31.6 U	31.6 U
B4@0-1'	2/16/2011	0-1	1250 U	15.6 U	31.2 U	31.2 U	31.2 U	62.4 U	312 U	624 U	62.4 U	62.4 U	62.4 U	31.2 U	31.2 U
B4@6-7'	2/16/2011	6-7	1150 U	14.3 U	28.7 U	28.7 U	28.7 U	57.3 U	287 U	573 U	57.3 U	57.3 U	57.3 U	28.7 U	28.7 U
MTCA Screening Levels			8,000,000 [4]	**30** [1,2]	NL	NL	16,000 [3]	130,000 [3]	110,000 [4]	48,000,000 [4]	NL	NL	NL	7,000 [3]	1,600,000 [4]
Yakama Basin Background Levels -															

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Volatile Organic Compounds										
			Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	646 U	64.6 U	323 U	64.6 U	64.6 U	323 U	129 U	32.3 U	64.6 U	32.3 U	32.3 U
B2@5-6'	2/16/2011	5-6	538 U	53.8 U	269 U	53.8 U	53.8 U	269 U	108 U	26.9 U	53.8 U	26.9 U	26.9 U
B3@5-6'	2/16/2011	5-6	631 U	63.1 U	316 U	63.1 U	63.1 U	316 U	126 U	31.6 U	63.1 U	31.6 U	31.6 U
B4@0-1'	2/16/2011	0-1	624 U	62.4 U	312 U	62.4 U	62.4 U	312 U	125 U	31.2 U	62.4 U	31.2 U	31.2 U
B4@6-7'	2/16/2011	6-7	573 U	57.3 U	287 U	57.3 U	57.3 U	287 U	115 U	28.7 U	57.3 U	28.7 U	28.7 U
MTCA Screening Levels			345,000 [3]	163,934 [3]	77,000 [3]	1,600,000 [4]	NL	710 [3]	12,000 [3]	5 [1,2]	NL	7,200,000 [4]	NL
Yakama Basin Background Levels -													

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Volatile Organic Compounds													
			1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	32.3 U	129 U	32.3 U	32.3 U	32.3 U	32.3 U	32.3 U	32.3 U	32.3 U	64.6 U	64.6 U	32.3 U	64.6 U	32.3 U
B2@5-6'	2/16/2011	5-6	26.9 U	108 U	26.9 U	26.9 U	26.9 U	26.9 U	26.9 U	26.9 U	26.9 U	53.8 U	53.8 U	26.9 U	53.8 U	26.9 U
B3@5-6'	2/16/2011	5-6	31.6 U	126 U	31.6 U	31.6 U	31.6 U	31.6 U	31.6 U	31.6 U	31.6 U	63.1 U	63.1 U	31.6 U	63.1 U	31.6 U
B4@0-1'	2/16/2011	0-1	31.2 U	125 U	31.2 U	31.2 U	31.2 U	31.2 U	31.2 U	31.2 U	31.2 U	62.4 U	62.4 U	31.2 U	62.4 U	31.2 U
B4@6-7'	2/16/2011	6-7	28.7 U	115 U	28.7 U	28.7 U	28.7 U	28.7 U	28.7 U	28.7 U	28.7 U	57.3 U	57.3 U	28.7 U	57.3 U	28.7 U
MTCA Screening Levels			**41,666** [3]	16,000,000 [4]	16,000,000 [4]	11,000 [3]	4,000,000 [4]	800,000 [4]	1,600,000 [4]	15,000 [3]	NL	NL	NL	NL	NL	6,000 [1,2]
Yakama Basin Background Levels -																

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Volatile Organic Compounds													
			Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene	4-Methyl-2-Pentanone (MIBK)	Methyl Tert-Butyl Ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	129 U	646 U	64.6 U	64.6 U	646 U	64.6 U	323 U	129 U	32.3 U	64.6 U	32.3 U	32.3 U	**59.4**	64.6 U
B2@5-6'	2/16/2011	5-6	108 U	538 U	53.8 U	53.8 U	538 U	53.8 U	269 U	108 U	26.9 U	53.8 U	26.9 U	26.9 U	**25.8 UJ**	53.8 U
B3@5-6'	2/16/2011	5-6	126 U	631 U	63.1 U	63.1 U	631 U	63.1 U	316 U	126 U	31.6 U	63.1 U	31.6 U	31.6 U	31.6 U	63.1 U
B4@0-1'	2/16/2011	0-1	125 U	624 U	62.4 U	62.4 U	624 U	62.4 U	312 U	125 U	31.2 U	62.4 U	31.2 U	31.2 U	31.2 U	62.4 U
B4@6-7'	2/16/2011	6-7	115 U	573 U	57.3 U	57.3 U	573 U	57.3 U	287 U	115 U	28.7 U	57.3 U	28.7 U	28.7 U	28.7 U	57.3 U
MTCA Screening Levels			13,000 [3]	NL	8,000,000 [4]	NL	6,400,000 [4]	100 [1,2]	**20** [1,2]	5,000 [1,2]	NL	33,333 [3]	38,000 [3]	5,000 [3]	**50** [1,2]	7,000 [1,2]
Yakama Basin Background Levels -																

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			Volatile Organic Compounds											
			1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	323 U	323 U	32.3 U	32.3 U	32.3 U	64.6 U	64.6 U	64.6 U	64.6 U	32.3 U	64.6 U	32.3 U
B2@5-6'	2/16/2011	5-6	269 U	269 U	26.9 U	26.9 U	26.9 U	53.8 U	53.8 U	53.8 U	53.8 U	26.9 U	53.8 U	26.9 U
B3@5-6'	2/16/2011	5-6	316 U	316 U	31.6 U	31.6 U	31.6 U	63.1 U	63.1 U	63.1 U	63.1 U	31.6 U	63.1 U	31.6 U
B4@0-1'	2/16/2011	0-1	312 U	312 U	31.2 U	31.2 U	31.2 U	62.4 U	62.4 U	62.4 U	62.4 U	31.2 U	62.4 U	31.2 U
B4@6-7'	2/16/2011	6-7	287 U	287 U	28.7 U	28.7 U	28.7 U	57.3 U	57.3 U	57.3 U	57.3 U	28.7 U	57.3 U	28.7 U
MTCA Screening Levels			NL	**800,000** [4]	2,000[1,2]	18,000 [3]	**30** [1,2]	24,000,000 [4]	140 [3]	4,000,000 [4]	4,000,000 [4]	667 [3]	NL	160,000,000 [4]
Yakama Basin Background Levels -														

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(A)Anthracene	Benzo(B,K)Fluoranthene	Benzo(A)Pyrene	Benzo(G,H,I)Perylene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-CD)Pyrene	Naphthalene	Phenanthrene	Pyrene
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**
B1@5-6'	2/16/2011	5-6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B2@5-6'	2/16/2011	5-6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B3@5-6'	2/16/2011	5-6	11.1 U	11.1 U	11.1 U	11.1 U	22.2 U	11.1 U	11.1 U	**11.3**	11.1 U	11.1 U	11.1 U	11.1 U	**18.4**	**14.7**	**11.8**
B4@0-1'	2/16/2011	0-1	11.5 U	11.5 U	11.5 U	**19.3**	**35.6**	**20.8**	**22.2**	**25.2**	11.5 U	**29.8**	11.5 U	**18.4**	**37.3**	**28.9**	**32.9**
B4@6-7'	2/16/2011	6-7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTCA Screening Levels			4,800,000 [4]	NL	24,000,000	NL	NL	**100** [2]	NL	NL	NL	3,200,000 [4]	3,200,000 [4]	NL	5,000 [1,2]	NL	2,400,000 [4]
Yakama Basin Background Levels -																	

TABLE 1
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Constituents Detected in Soil

			PCBs								Total Petroleum Hydrocarbons by NWTPH-HCID			Total Petroleum Hydrocarbons		
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Gasoline Range Hydrocarbons by	Diesel Range Organics by NWTP	Oil Range Hydrocarbons
Sample ID	**Sample Date**	**Sample Depth (Ft bgs)**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**µg/Kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
B1@5-6'	2/16/2011	5-6	NT	NT	NT	NT	NT	NT	NT	NT	24 U	60.1 U	120 U	NT	NT	NT
B2@5-6'	2/16/2011	5-6	NT	NT	NT	NT	NT	NT	NT	NT	24.9 U	62.1 U	124 U	NT	NT	NT
B3@5-6'	2/16/2011	5-6	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	ND	24.6 U	61.6 U	**DET**	NT	25.2 U	**176**
B4@0-1'	2/16/2011	0-1	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	ND	22.2 U	55.4 U	**DET**	NT	25.4 U	**236**
B4@6-7'	2/16/2011	6-7	NT	NT	NT	NT	NT	NT	NT	NT	26.4 U	66 U	132 U	NT	NT	NT
MTCA Screening Levels			5,600 [4]	NL	NL	NL	NL	1,600 [4]	NL	1,000 [2]	100 [1,2]	2,000 [1,2]	2,000 [1,2]	100 [1,2]	2,000 [1,2]	2,000 [1,2]
Yakama Basin Background Levels -																

Notes:

Shaded value indicates exceedence above one or more Regulatory Screening Value or Background Level for Metals

U = constituent not detected at or above the method reporting limit shown

J = estimate, detected below lowest pt. on calibraiton curve but above method detection limit

Bold = constituent detected at or above the laboratory method reporting limit

Metals background concentrations from Ecology 1994.

Sb, Se, Ag background levels are statewide.

MTCA Cleanup Levels from the *Washington State Department of Ecology,* Cleanup Levels and Risk Calculations (CLARC) database, March 1, 2011

[1] = MTCA A Cleanup Levels for Industrial Land Use

[2] = MTCA A Cleanup Levels for Unrestricted Land Use

[3] = MTCA B Cleanup Levels for Unrestricted Land Use (Carcinogenic)

[4] = MTCA B Cleanup Levels for Unrestricted Land Use (noncarcinogenic)

Acronyms/Abbreviations:

MTCA = Model Toxics Control Act

DET= Detected above laboratory method reporting limit using Method NWTPH-HCID

Ft bgs = Feet below ground surface

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ND = not detected

NL = No screening or background level available

NT = Not Tested

NWTPH-Gx = Northwest Method-Gasoline range hydrocarbons

NWTPH-Dx = Northwest Method - diesel and oil range hydrocarbons

NWTPH-HCID = Northwest Method - hydrocarbon identification

VOCs = volatile organic compounds

PCBs = polychlorinated biphenyls

TABLE 2
Fred Meyer
109 N. Water Street, Ellensburg, WA
Phase II ESA
Total Toxic Equivalent Concentration Calculation for Benzo(a)pyrene in Soil

TEF	Analyte	Sample	
		B3@5-6'	B4@0-1'
		µg/mg	µg/mg
1	benzo(a)pyrene		20.8
0.1	benzo(a)anthracene		19.3
0.1	benzo(b,k)fluoranthene		35.6
0.01	chrysene	11.3	25.2
0.1	dibenz(a,h)anthracene		
0.1	indeno(1,2,3-cd)pyrene		18.4
Toxic Equivalent Concentrations			
	benzo(a)pyrene	0	20.8
	benzo(a)anthracene	0	1.93
	benzo(b)fluoranthene	0	3.56
	chrysene	0.113	0.252
	dibenz(a,h)anthracene	0	0
	indeno(1,2,3-cd)pyrene	0	1.84
Total Toxic Equivalent Concentration of Benzo(a)pyrene		0.113	28.382
Benzo(a)pyrene cleanup level [1]			100

[1] MTCA soil cleanup level for unrestricted land uses
TEF = Toxicity Equivalency Factor
µg/mg = micrograms per kilogram

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Metals												
		Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	1.0 U	**5.97**	**2.19**	1.0 U	**160**	**90.2**	**25.4**	**0.179**	**160**	2.0 U	1.0 U	1.0 U	**214**
B2	2/16/2011	1.0 U	**4.1**	**2.32**	1.0 U	**111**	**77.5**	**33.7**	**0.151**	**97.9**	2.0 U	1.0 U	1.0 U	**187**
B3	2/16/2011	1.0 U	**7.77**	**2.8**	**1.04**	**223**	**131**	**41.6**	**0.346**	**283**	2.0 U	1.0 U	1.0 U	**285**
B4	2/16/2011	1.0 U	**2.91**	**1.21**	1.0 U	**73.8**	**50**	**14.8**	**0.14**	**73.3**	2.0 U	1.0 U	1.0 U	**116**
Screening Levels		6.4[3]	5[1]	32 [3]	5[1]	50[1]	592[3]	15[1]	2[1]	320[3]	80 [3]	80[3]	1.12[3]	4,800[3]

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Volatile Organic Compounds															
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	20 U	0.25 U	0.5 U	0.5 U	**0.45 UJ**	1.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	5.0 U	**0.9 UJ**	5.0 U
B2	2/16/2011	20 U	0.25 U	0.5 U	0.5 U	**0.41 UJ**	1.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	5.0 U	**1.01**	5.0 U
B3	2/16/2011	20 U	0.25 U	0.5 U	0.5 U	0.5 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	5.0 U	1.0 U	5.0 U
B4	2/16/2011	20 U	0.25 U	0.5 U	0.5 U	0.5 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	5.0 U	1.0 U	5.0 U
Screening Levels		800 [3]	5 [1]	NL	0.71 [2]	0.71 [2]	5.5 [2]	11 [3]	4,800 [3]	NL	NL	NL	0.34 [2]	160[3]	15.1[2]	7.2[2]	3.4 [2]

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Volatile Organic Compounds													
		2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	1.0 U	1.0 U	5.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
B2	2/16/2011	1.0 U	1.0 U	5.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
B3	2/16/2011	1.0 U	1.0 U	5.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
B4	2/16/2011	1.0 U	1.0 U	5.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Screening Levels		160[3]	NL	0.031 [2]	0.52 [2]	0.01 [1]	NL	720[3]	NL	1.8[2]	1,600 [3]	1,600[3]	5[1]	400[3]	80[3]

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Volatile Organic Compounds													
		trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene	4-Methyl-2-Pentanone (MIBK)	Methyl Tert-Butyl Ether (MTBE)
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	5.0 U	10 U	1.0 U	1.0 U	10 U	1.0 U
B2	2/16/2011	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	5.0 U	10 U	1.0 U	1.0 U	10 U	1.0 U
B3	2/16/2011	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	5.0 U	10 U	1.0 U	1.0 U	10 U	1.0 U
B4	2/16/2011	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	5.0 U	10 U	1.0 U	1.0 U	10 U	1.0 U
Screening Levels		160 [3]	0.64[2]	NL	NL	NL	NL	NL	700[1]	0.56 [2]	NL	800[3]	NL	640 [3]	20[1]

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Volatile Organic Compounds											
		Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	5.0 U	2.0 U	0.5 U	1.0 U	0.5 U	0.5 U	**0.45 UJ**	1.0 U	1.0 U	2.0 U	0.5 U	0.5 U
B2	2/16/2011	5.0 U	2.0 U	0.5 U	1.0 U	0.5 U	0.5 U	**0.42 UJ**	1.0 U	1.0 U	2.0 U	0.5 U	0.5 U
B3	2/16/2011	5.0 U	2.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	2.0 U	0.5 U	0.5 U
B4	2/16/2011	5.0 U	2.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	2.0 U	0.5 U	0.5 U
Screening Levels		5 [1]	160 [1]	NL	1.5 [2]	1.7 [2]	0.22 [2]	5 [1]	1000 [1]	NL	80[3]	200[1]	0.77 [2]

TABLE 3
Fred Meyer
Phase II ESA
109 N. Water Street, Ellensburg
Constituents Detected in Groundwater

		Volatile Organic Compounds								Total Petroleum Hydrocarbons by NWTPH-HCID		
		Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics
Sample ID	**Sample Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
B1	2/16/2011	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	97.1 U	243 U	243 U
B2	2/16/2011	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	100 U	250 U	250 U
B3	2/16/2011	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	97.1 U	243 U	243 U
B4	2/16/2011	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	94.3 U	236 U	236 U
Screening Levels		5 [1]	2,400 [3]	0.0063 [2]	400[3]	400[3]	0.2 [1]	NL	16,000 [3]	1,000 [1,2]	500 [1]	500 [1]

Notes:

Shaded value indicates exceedence above one or more Regulatory Screening Value

U = constituent not detected at or above the method reporting limit shown

J = estimated value, detect below lowest pt. on calibration curve, but above method detection limit.

Bold = constituent detected at or above the laboratory method reporting limit

MTCA Cleanup Levels from the *Washington State* Department of Ecology, Cleanup Levels and Risk Calculations (CLARC) database (checked March 1, 2011)

[1] = MTCA A

[2] = MTCA B Carcinogenic

[3] = MTCA B Non-Carcinogenic

Acronyms/Abbreviations:

MTCA = Model Toxics Control Act

DET= Detected above laboratory method reporting limit using Method NWTPH-HCID

EPA = United States Environmental Protection Agency

Ft bgs = Feet below ground surface

µg/L = micrograms per liter

NL = screening level not available

NT = Not Tested

NWTPH-Gx = Northwest Method-Gasoline range hydrocarbons

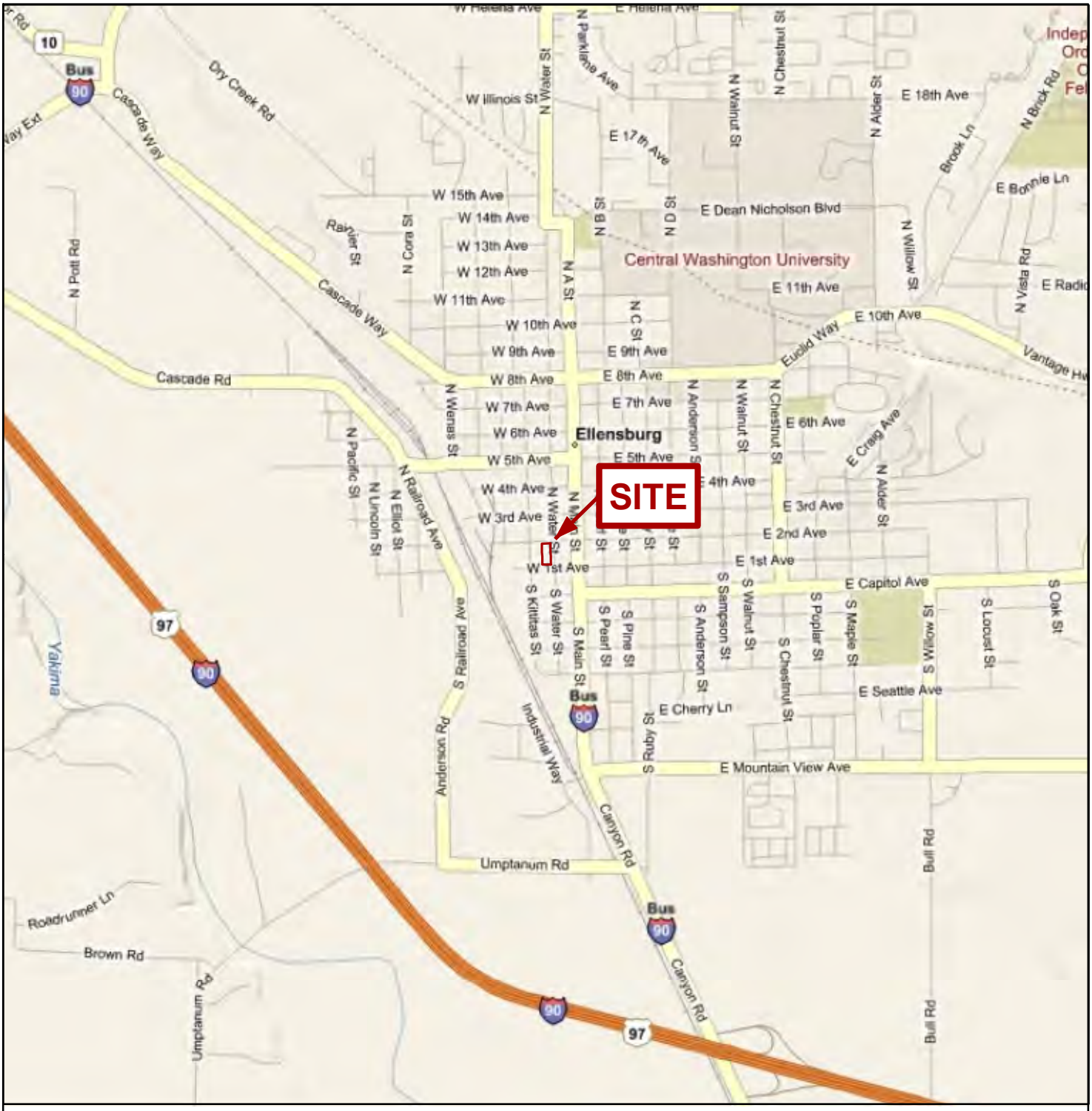
NWTPH-Dx = Northwest Method - diesel and oil range hydrocarbons

NWTPH-HCID = Northwest Method - hydrocarbon identification

VOCs = Volatile Organic Compounds

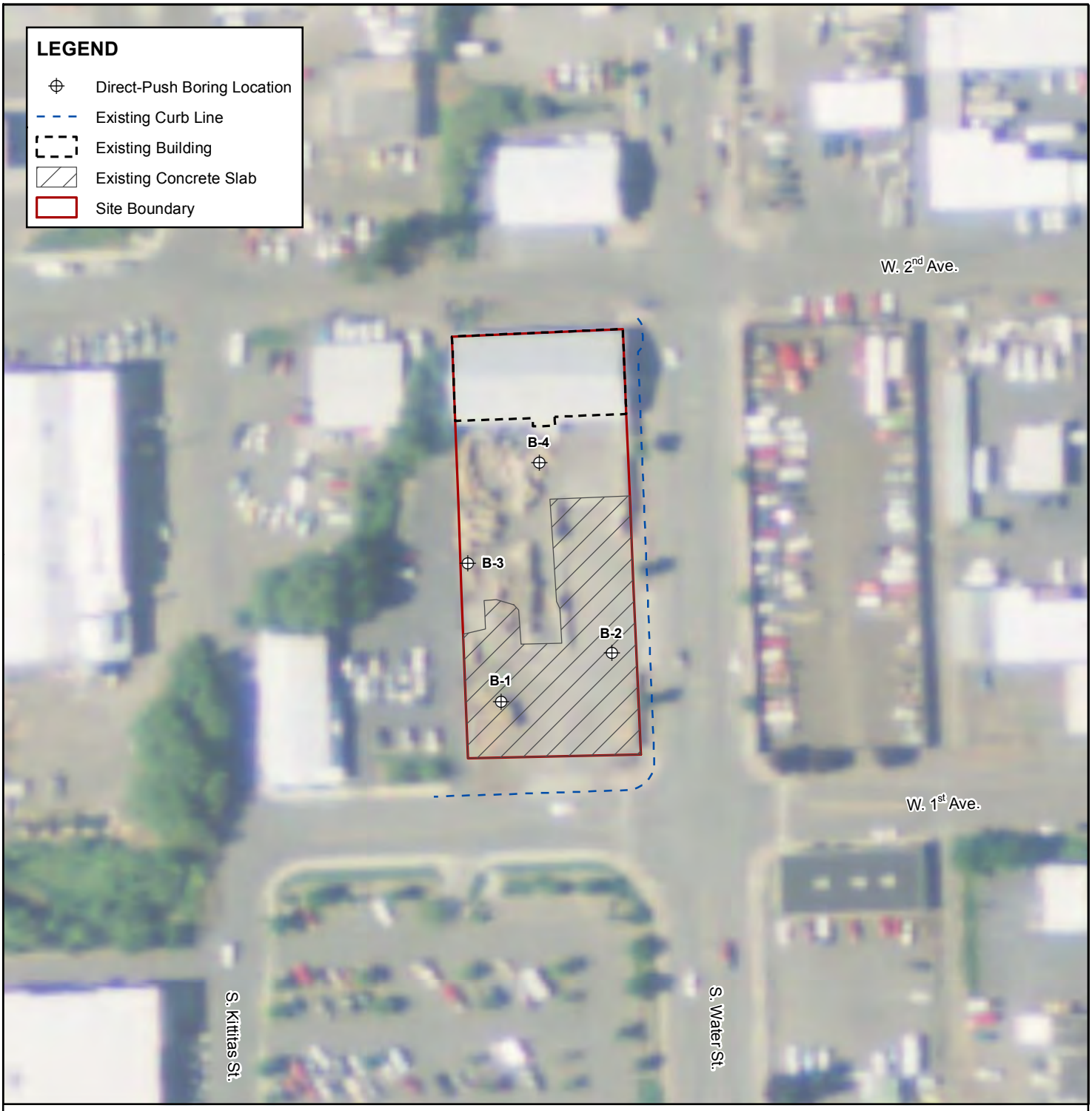
PAHs =Polyaromatic Hydrocarbons

FIGURES



AMEC Earth & Environmental 7376 SW Durham Road Portland, OR, U.S.A. 97224			CLIENT: FRED MEYER	
TITLE: SITE LOCATION MAP		DWN BY: SD	DATUM: NAD83	DATE: APRIL 2011
PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT 109 N. WATER STREET ELLENSBURG, WA		CHK'D BY: JF	REV. NO.: -	PROJECT NO.: 1-61M-12350-0
		PROJECTION: WA SP S. Ft.	SCALE: 1 inch = 2,000 feet	FIGURE No.: FIGURE 1

K:\12000\12300\12350\123500\dwg\Figure 1 - Site Location Map.mxd



0 50 100 200 Feet

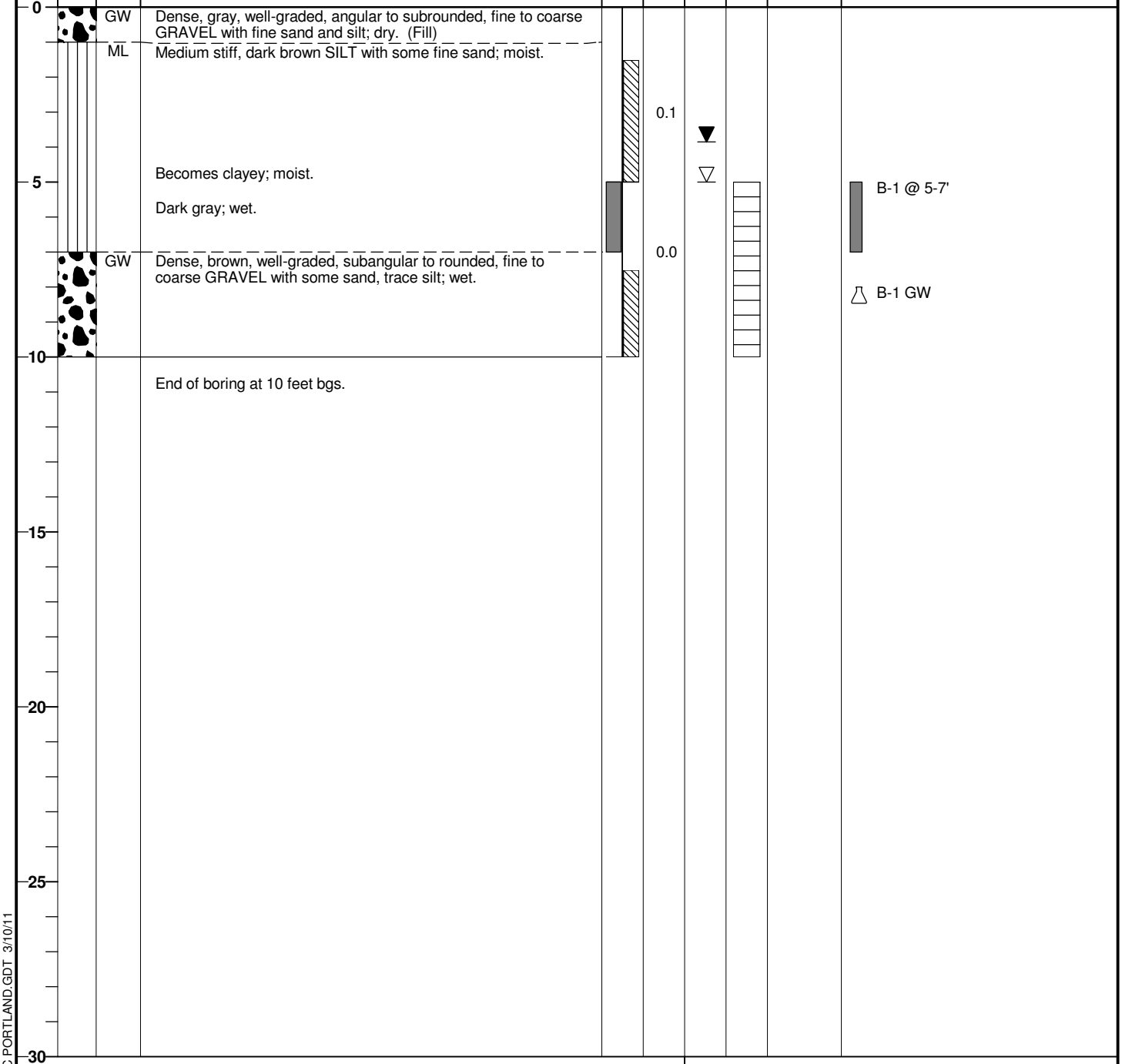
N

AMEC Earth & Environmental 7376 SW Durham Road Portland, OR, U.S.A. 97224	amec		CLIENT: FRED MEYER	
TITLE: SITE PLAN		DWN BY: SD	DATUM: NAD83	DATE: APRIL 2011
PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT 109 N. WATER STREET ELLENSBURG, WA		CHK'D BY: JF	REV. NO.: -	PROJECT NO.: 1-61M-12350-0
		PROJECTION: WA SP S. Ft.	SCALE: 1 inch = 100 feet	FIGURE No.: FIGURE 2

K:\12000\12300\12350\123500\dwg\Figure 2 - Site Plan.mxd

ATTACHMENT A

Boring Logs



BORING METHOD: Direct Push
BOREHOLE DIAMETER: 2.0 (in)
DRILL RIG: Geoprobe 6600
CONTRACTOR: Pacific Coast & Water
LOGGED BY: J. Fassio

ELEVATION REFERENCE: NA
GROUND SURFACE ELEVATION: NA
START CARD/TAG ID: NA
DRILLING DATES: 2/16/2011 - 2/16/2011

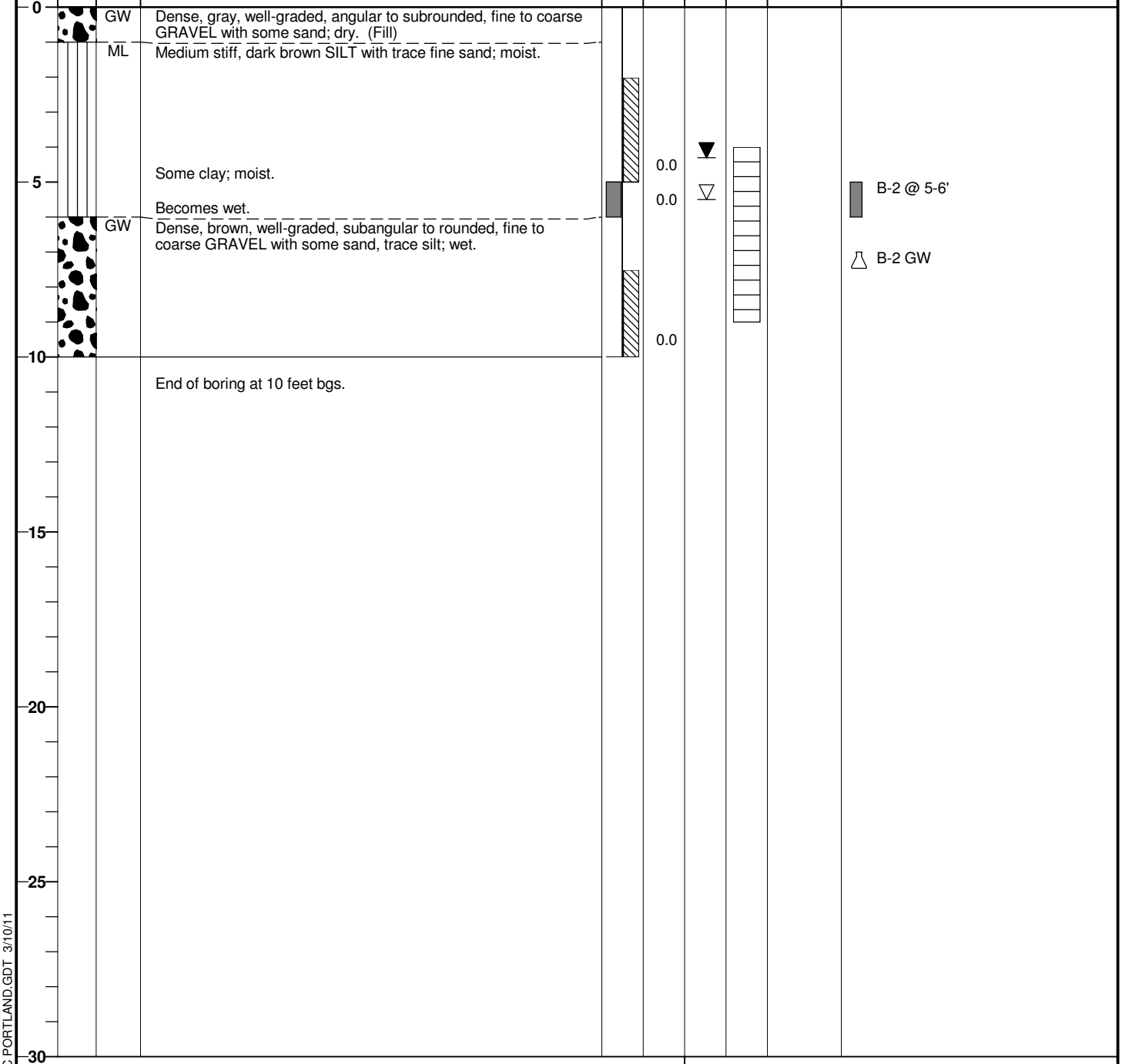
REMARKS:

DIRECT PUSH BORING 1-61M-123500.GPJ AMEC PORTLAND.GDT 3/10/11

Fred Meyer Phase II ESA
109 N. Water Street
Ellensburg, WA
1-61M-123500

AMEC
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel (503) 639-3400
Fax (503) 620-7892

LOG OF BORING B-1



BORING METHOD: Direct Push
BOREHOLE DIAMETER: 2.0 (in)
DRILL RIG: Geoprobe 6600
CONTRACTOR: Pacific Coast & Water
LOGGED BY: J. Fassio

ELEVATION REFERENCE: NA
GROUND SURFACE ELEVATION: NA
START CARD/TAG ID: NA
DRILLING DATES: 2/16/2011 - 2/16/2011

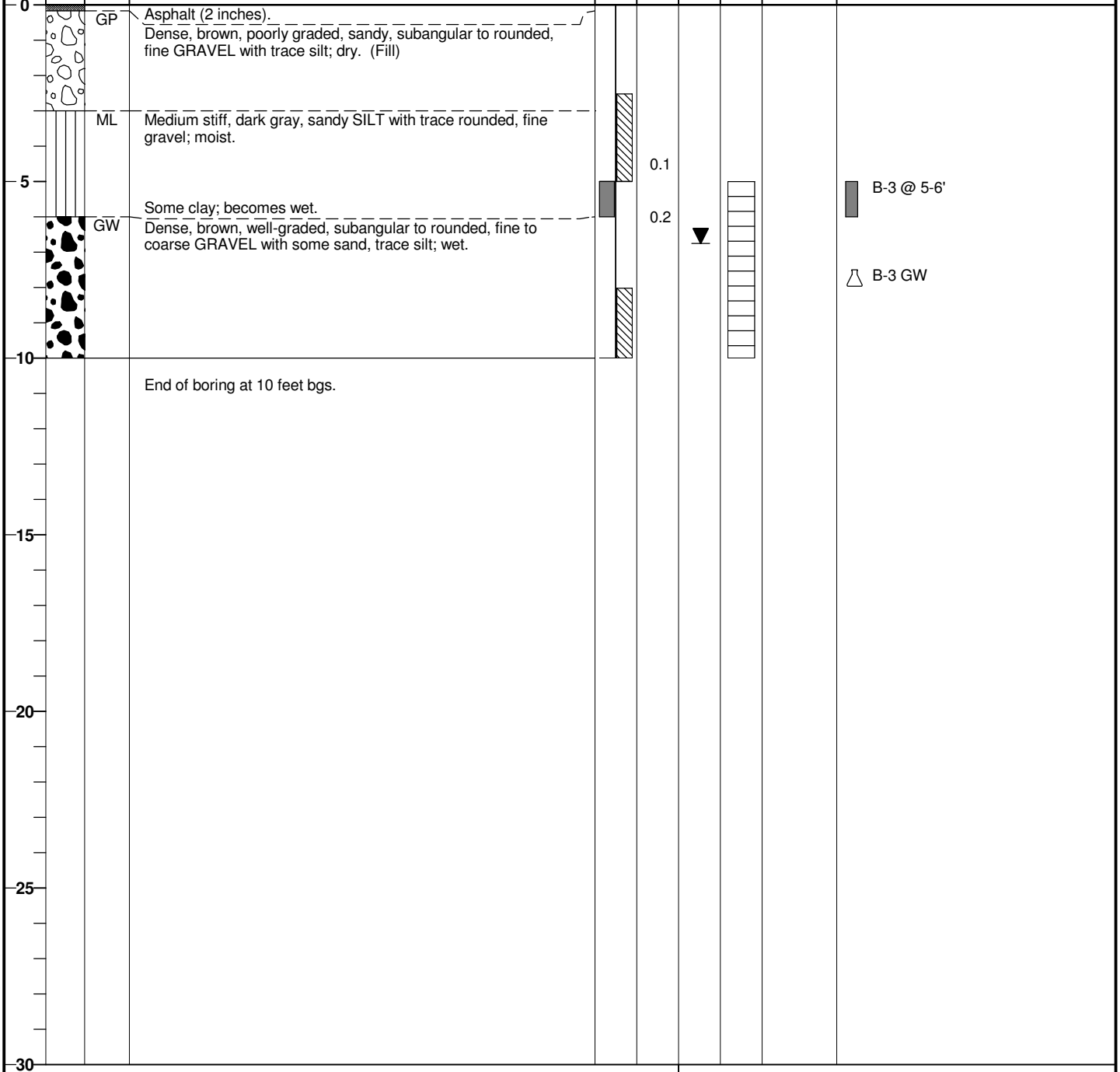
REMARKS:

DIRECT PUSH BORING 1-61M-123500.GPJ AMEC PORTLAND.GDT 3/10/11

Fred Meyer Phase II ESA
109 N. Water Street
Ellensburg, WA
1-61M-123500

AMEC
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel (503) 639-3400
Fax (503) 620-7892

LOG OF BORING B-2



BORING METHOD: Direct Push
BOREHOLE DIAMETER: 2.0 (in)
DRILL RIG: Geoprobe 6600
CONTRACTOR: Pacific Coast & Water
LOGGED BY: J. Fassio

ELEVATION REFERENCE: NA
GROUND SURFACE ELEVATION: NA
START CARD/TAG ID: NA
DRILLING DATES: 2/16/2011 - 2/16/2011

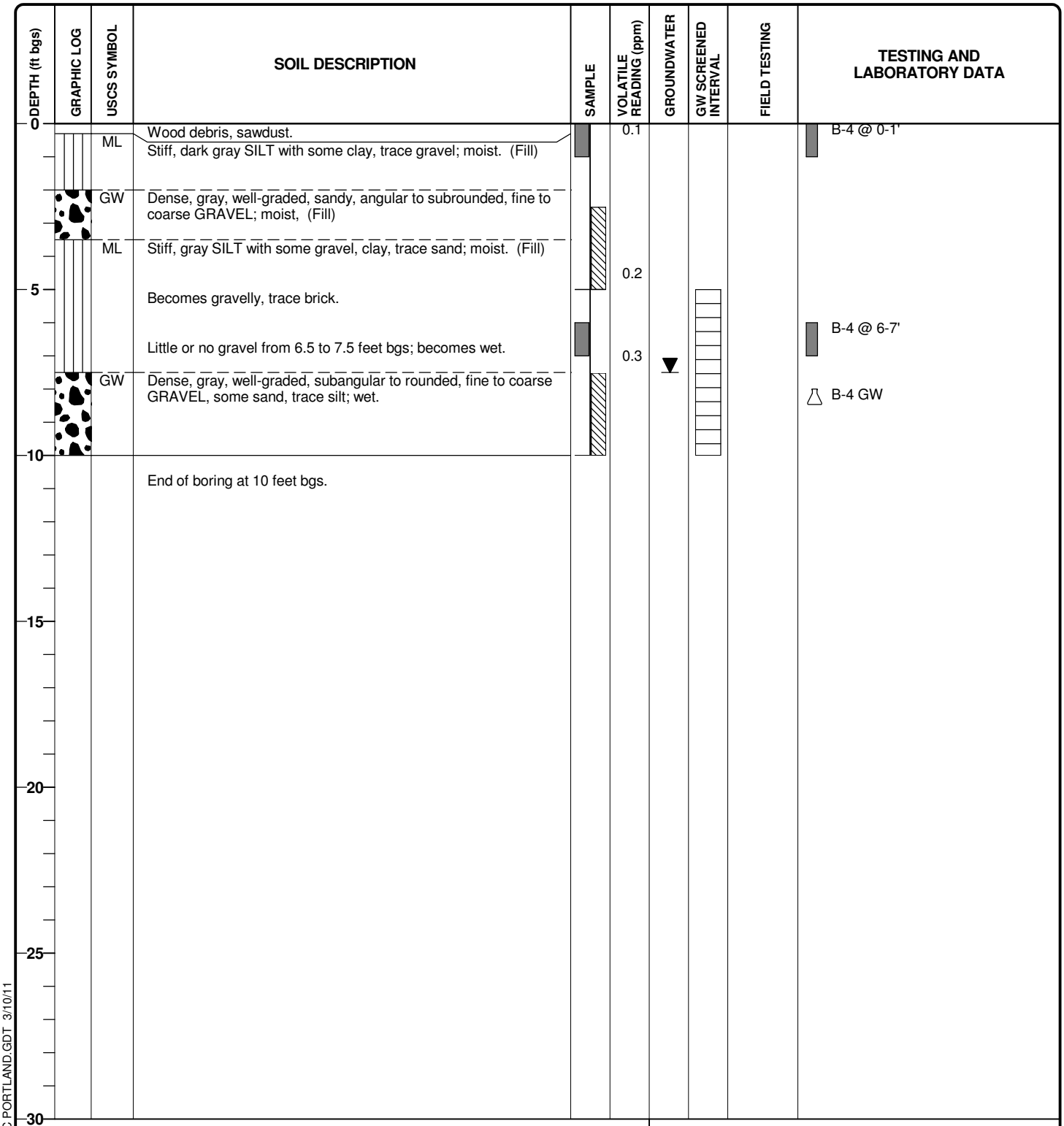
REMARKS:

DIRECT PUSH BORING 1-61M-123500.GPJ AMEC PORTLAND.GDT 3/10/11

Fred Meyer Phase II ESA
109 N. Water Street
Ellensburg, WA
1-61M-123500

AMEC
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel (503) 639-3400
Fax (503) 620-7892

LOG OF BORING B-3



BORING METHOD: Direct Push
BOREHOLE DIAMETER: 2.0 (in)
DRILL RIG: Geoprobe 6600
CONTRACTOR: Pacific Coast & Water
LOGGED BY: J. Fassio

ELEVATION REFERENCE: NA
GROUND SURFACE ELEVATION: NA
START CARD/TAG ID: NA
DRILLING DATES: 2/16/2011 - 2/16/2011

REMARKS:

DIRECT PUSH BORING 1-61M-123500.GPJ AMEC PORTLAND.GDT 3/10/11

Fred Meyer Phase II ESA
109 N. Water Street
Ellensburg, WA
1-61M-123500

AMEC
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel (503) 639-3400
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LOG OF BORING B-4

ATTACHMENT B

Laboratory Analytical Results

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Monday, March 14, 2011

Robin Johnson
Amec Earth and Environmental, Inc
7376 SW Durham Road
Portland, OR 97224

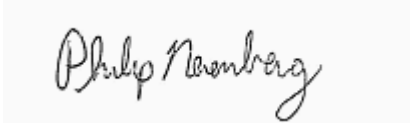
RE: Fred Meyer Ellensburg / 161M123500

Enclosed are the results of analyses for work order A11B241, which was received by the laboratory on 2/17/2011 at 10:29:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1@ 5-6'	A11B241-01	Soil	02/16/11 08:45	02/17/11 10:29
B2@ 5-6'	A11B241-02	Soil	02/16/11 09:15	02/17/11 10:29
B3@ 5-6'	A11B241-03	Soil	02/16/11 09:45	02/17/11 10:29
B4 @ 0-1'	A11B241-04	Soil	02/16/11 10:15	02/17/11 10:29
B4 @ 6-7'	A11B241-05	Soil	02/16/11 10:30	02/17/11 10:29
B-4	A11B241-06	Water	02/16/11 10:50	02/17/11 10:29
B-3	A11B241-07	Water	02/16/11 11:25	02/17/11 10:29
B-2	A11B241-08	Water	02/16/11 11:50	02/17/11 10:29
B-1	A11B241-09	Water	02/16/11 12:05	02/17/11 10:29

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

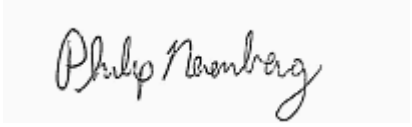
Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification (HCID) Screen by NWTPH

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1@ 5-6' (A11B241-01)			**Matrix: Soil**		**Batch: 1102303**			
Gasoline Range Organics	ND	---	24.0	mg/kg dry	1	02/18/11 02:06	NWTPH-HCID	
Diesel Range Organics	ND	---	60.1	"	"	"	"	
Oil Range Organics	ND	---	120	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 92 %*	*Limits: 50-150 %*	"	"	"	
B2@ 5-6' (A11B241-02)			**Matrix: Soil**		**Batch: 1102303**			
Gasoline Range Organics	ND	---	24.9	mg/kg dry	1	02/18/11 02:29	NWTPH-HCID	
Diesel Range Organics	ND	---	62.1	"	"	"	"	
Oil Range Organics	ND	---	124	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 83 %*	*Limits: 50-150 %*	"	"	"	
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102303**			
Gasoline Range Organics	ND	---	24.6	mg/kg dry	1	02/18/11 09:25	NWTPH-HCID	
Diesel Range Organics	ND	---	61.6	"	"	"	"	
Oil Range Organics	DET	---	123	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 87 %*	*Limits: 50-150 %*	"	"	"	
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102303**			
Gasoline Range Organics	ND	---	22.2	mg/kg dry	1	02/18/11 09:49	NWTPH-HCID	
Diesel Range Organics	ND	---	55.4	"	"	"	"	
Oil Range Organics	DET	---	111	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 83 %*	*Limits: 50-150 %*	"	"	"	
B4 @ 6-7' (A11B241-05)			**Matrix: Soil**		**Batch: 1102303**			
Gasoline Range Organics	ND	---	26.4	mg/kg dry	1	02/18/11 02:52	NWTPH-HCID	
Diesel Range Organics	ND	---	66.0	"	"	"	"	
Oil Range Organics	ND	---	132	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 86 %*	*Limits: 50-150 %*	"	"	"	
B-4 (A11B241-06)			**Matrix: Water**		**Batch: 1102353**			
Gasoline Range Organics	ND	---	0.0943	mg/L	1	02/22/11 00:39	NWTPH-HCID	
Diesel Range Organics	ND	---	0.236	"	"	"	"	
Oil Range Organics	ND	---	0.236	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 50 %*	*Limits: 50-150 %*	"	"	"	
B-3 (A11B241-07)			**Matrix: Water**		**Batch: 1102353**			
Gasoline Range Organics	ND	---	0.0971	mg/L	1	02/22/11 01:06	NWTPH-HCID	
Diesel Range Organics	ND	---	0.243	"	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

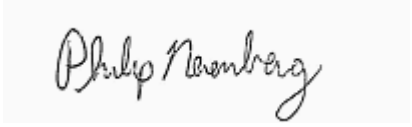
Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification (HCID) Screen by NWTPH

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-3 (A11B241-07)			**Matrix: Water**		**Batch: 1102353**			
Oil Range Organics	ND	---	0.243	mg/L	1	"	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)			*Recovery: 96 %*	*Limits: 50-150 %*	"	"	"	
B-2 (A11B241-08)			**Matrix: Water**		**Batch: 1102353**			
Gasoline Range Organics	ND	---	0.100	mg/L	1	02/22/11 01:34	NWTPH-HCID	
Diesel Range Organics	ND	---	0.250	"	"	"	"	
Oil Range Organics	ND	---	0.250	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 93 %*	*Limits: 50-150 %*	"	"	"	
B-1 (A11B241-09)			**Matrix: Water**		**Batch: 1102353**			
Gasoline Range Organics	ND	---	0.0971	mg/L	1	02/22/11 02:01	NWTPH-HCID	
Diesel Range Organics	ND	---	0.243	"	"	"	"	
Oil Range Organics	ND	---	0.243	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 91 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories



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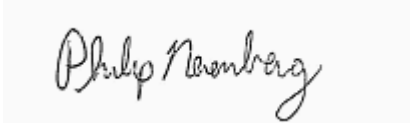
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Diesel Range (C10-C22) and Oil Range (>C22-C40) Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102420**			
Diesel Range Organics	ND	---	25.2	mg/kg dry	1	02/24/11 21:23	NWTPH-Dx	
Oil Range Organics	**176**	---	50.5	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 99 %*	*Limits: 50-150 %*	"	"	"	
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102420**			
Diesel Range Organics	ND	---	25.4	mg/kg dry	1	02/24/11 22:12	NWTPH-Dx	
Oil Range Organics	**236**	---	50.7	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 102 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories



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503-718-0333 Fax

Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1@ 5-6' (A11B241-01)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
Acetone	ND	646	1290	ug/kg dry	50	02/17/11 14:12	5035/8260B	
Benzene	ND	9.04	16.1	"	"	"	"	
Bromobenzene	ND	17.6	32.3	"	"	"	"	
Bromochloromethane	ND	16.1	32.3	"	"	"	"	
Bromodichloromethane	ND	16.1	32.3	"	"	"	"	
Bromoform	ND	32.3	64.6	"	"	"	"	
Bromomethane	ND	323	323	"	"	"	"	
2-Butanone (MEK)	ND	323	646	"	"	"	"	
n-Butylbenzene	ND	32.3	64.6	"	"	"	"	
sec-Butylbenzene	ND	32.3	64.6	"	"	"	"	
tert-Butylbenzene	ND	32.3	64.6	"	"	"	"	
Carbon tetrachloride	ND	16.1	32.3	"	"	"	"	
Chlorobenzene	ND	16.8	32.3	"	"	"	"	
Chloroethane	ND	323	646	"	"	"	"	
Chloroform	ND	32.3	64.6	"	"	"	"	
Chloromethane	ND	161	323	"	"	"	"	
2-Chlorotoluene	ND	32.3	64.6	"	"	"	"	
4-Chlorotoluene	ND	32.3	64.6	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	161	323	"	"	"	"	
Dibromochloromethane	ND	64.6	129	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	19.6	32.3	"	"	"	"	
Dibromomethane	ND	32.3	64.6	"	"	"	"	
1,2-Dichlorobenzene	ND	16.1	32.3	"	"	"	"	
1,3-Dichlorobenzene	ND	16.1	32.3	"	"	"	"	
1,4-Dichlorobenzene	ND	16.1	32.3	"	"	"	"	
Dichlorodifluoromethane	ND	64.6	129	"	"	"	"	
1,1-Dichloroethane	ND	19.1	32.3	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	16.1	32.3	"	"	"	"	
1,1-Dichloroethene	ND	17.3	32.3	"	"	"	"	
cis-1,2-Dichloroethene	ND	16.1	32.3	"	"	"	"	
trans-1,2-Dichloroethene	ND	16.1	32.3	"	"	"	"	
1,2-Dichloropropane	ND	16.1	32.3	"	"	"	"	
1,3-Dichloropropane	ND	16.1	32.3	"	"	"	"	
2,2-Dichloropropane	ND	32.3	64.6	"	"	"	"	
1,1-Dichloropropene	ND	32.3	64.6	"	"	"	"	

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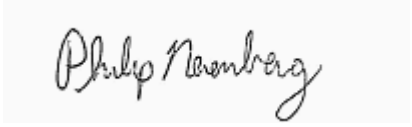
Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1@ 5-6' (A11B241-01)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
cis-1,3-Dichloropropene	ND	16.1	32.3	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	32.3	64.6	"	"	"	"	
Ethylbenzene	ND	16.1	32.3	"	"	"	"	
Hexachlorobutadiene	ND	64.6	129	"	"	"	"	
2-Hexanone	ND	323	646	"	"	"	"	
Isopropylbenzene	ND	32.3	64.6	"	"	"	"	
4-Isopropyltoluene	ND	32.3	64.6	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	323	646	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	38.6	64.6	"	"	"	"	
Methylene chloride	ND	161	323	"	"	"	"	Q-31
Naphthalene	ND	64.6	129	"	"	"	"	
n-Propylbenzene	ND	16.1	32.3	"	"	"	"	
Styrene	ND	32.3	64.6	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	16.1	32.3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16.1	32.3	"	"	"	"	
Tetrachloroethene (PCE)	**59.4**	16.1	32.3	"	"	"	"	
Toluene	ND	32.3	64.6	"	"	"	"	
1,2,3-Trichlorobenzene	ND	161	323	"	"	"	"	
1,2,4-Trichlorobenzene	ND	161	323	"	"	"	"	
1,1,1-Trichloroethane	ND	16.1	32.3	"	"	"	"	
1,1,2-Trichloroethane	ND	16.1	32.3	"	"	"	"	
Trichloroethene (TCE)	ND	23.4	32.3	"	"	"	"	
Trichlorofluoromethane	ND	32.3	64.6	"	"	"	"	
1,2,3-Trichloropropane	ND	32.3	64.6	"	"	"	"	
1,2,4-Trimethylbenzene	ND	32.3	64.6	"	"	"	"	
1,3,5-Trimethylbenzene	ND	32.3	64.6	"	"	"	"	
Vinyl chloride	ND	23.4	32.3	"	"	"	"	
m,p-Xylene	ND	32.3	64.6	"	"	"	"	
o-Xylene	ND	16.1	32.3	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 100 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*108 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories



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Apex Labs

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503-718-2323 Phone
503-718-0333 Fax

Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B2@ 5-6' (A11B241-02)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
Acetone	ND	538	1080	ug/kg dry	50	02/17/11 14:36	5035/8260B	
Benzene	ND	7.53	13.4	"	"	"	"	
Bromobenzene	ND	14.7	26.9	"	"	"	"	
Bromochloromethane	ND	13.4	26.9	"	"	"	"	
Bromodichloromethane	ND	13.4	26.9	"	"	"	"	
Bromoform	ND	26.9	53.8	"	"	"	"	
Bromomethane	ND	269	269	"	"	"	"	
2-Butanone (MEK)	ND	269	538	"	"	"	"	
n-Butylbenzene	ND	26.9	53.8	"	"	"	"	
sec-Butylbenzene	ND	26.9	53.8	"	"	"	"	
tert-Butylbenzene	ND	26.9	53.8	"	"	"	"	
Carbon tetrachloride	ND	13.4	26.9	"	"	"	"	
Chlorobenzene	ND	14.0	26.9	"	"	"	"	
Chloroethane	ND	269	538	"	"	"	"	
Chloroform	ND	26.9	53.8	"	"	"	"	
Chloromethane	ND	134	269	"	"	"	"	
2-Chlorotoluene	ND	26.9	53.8	"	"	"	"	
4-Chlorotoluene	ND	26.9	53.8	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	134	269	"	"	"	"	
Dibromochloromethane	ND	53.8	108	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	16.3	26.9	"	"	"	"	
Dibromomethane	ND	26.9	53.8	"	"	"	"	
1,2-Dichlorobenzene	ND	13.4	26.9	"	"	"	"	
1,3-Dichlorobenzene	ND	13.4	26.9	"	"	"	"	
1,4-Dichlorobenzene	ND	13.4	26.9	"	"	"	"	
Dichlorodifluoromethane	ND	53.8	108	"	"	"	"	
1,1-Dichloroethane	ND	15.9	26.9	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	13.4	26.9	"	"	"	"	
1,1-Dichloroethene	ND	14.4	26.9	"	"	"	"	
cis-1,2-Dichloroethene	ND	13.4	26.9	"	"	"	"	
trans-1,2-Dichloroethene	ND	13.4	26.9	"	"	"	"	
1,2-Dichloropropane	ND	13.4	26.9	"	"	"	"	
1,3-Dichloropropane	ND	13.4	26.9	"	"	"	"	
2,2-Dichloropropane	ND	26.9	53.8	"	"	"	"	
1,1-Dichloropropene	ND	26.9	53.8	"	"	"	"	

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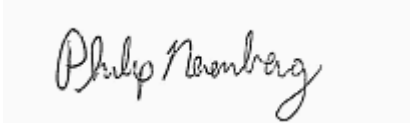

Philip Nerenberg, Lab Director

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503-718-0333 Fax

Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B2@ 5-6' (A11B241-02)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
cis-1,3-Dichloropropene	ND	13.4	26.9	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	26.9	53.8	"	"	"	"	
Ethylbenzene	ND	13.4	26.9	"	"	"	"	
Hexachlorobutadiene	ND	53.8	108	"	"	"	"	
2-Hexanone	ND	269	538	"	"	"	"	
Isopropylbenzene	ND	26.9	53.8	"	"	"	"	
4-Isopropyltoluene	ND	26.9	53.8	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	269	538	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	32.1	53.8	"	"	"	"	
Methylene chloride	ND	134	269	"	"	"	"	Q-31
Naphthalene	ND	53.8	108	"	"	"	"	
n-Propylbenzene	ND	13.4	26.9	"	"	"	"	
Styrene	ND	26.9	53.8	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	13.4	26.9	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	13.4	26.9	"	"	"	"	
Tetrachloroethene (PCE)	**25.8**	13.4	26.9	"	"	"	"	J
Toluene	ND	26.9	53.8	"	"	"	"	
1,2,3-Trichlorobenzene	ND	134	269	"	"	"	"	
1,2,4-Trichlorobenzene	ND	134	269	"	"	"	"	
1,1,1-Trichloroethane	ND	13.4	26.9	"	"	"	"	
1,1,2-Trichloroethane	ND	13.4	26.9	"	"	"	"	
Trichloroethene (TCE)	ND	19.5	26.9	"	"	"	"	
Trichlorofluoromethane	ND	26.9	53.8	"	"	"	"	
1,2,3-Trichloropropane	ND	26.9	53.8	"	"	"	"	
1,2,4-Trimethylbenzene	ND	26.9	53.8	"	"	"	"	
1,3,5-Trimethylbenzene	ND	26.9	53.8	"	"	"	"	
Vinyl chloride	ND	19.5	26.9	"	"	"	"	
m,p-Xylene	ND	26.9	53.8	"	"	"	"	
o-Xylene	ND	13.4	26.9	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*112 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
Acetone	ND	631	1260	ug/kg dry	50	02/17/11 15:00	5035/8260B	
Benzene	ND	8.84	15.8	"	"	"	"	
Bromobenzene	ND	17.2	31.6	"	"	"	"	
Bromochloromethane	ND	15.8	31.6	"	"	"	"	
Bromodichloromethane	ND	15.8	31.6	"	"	"	"	
Bromoform	ND	31.6	63.1	"	"	"	"	
Bromomethane	ND	316	316	"	"	"	"	
2-Butanone (MEK)	ND	316	631	"	"	"	"	
n-Butylbenzene	ND	31.6	63.1	"	"	"	"	
sec-Butylbenzene	ND	31.6	63.1	"	"	"	"	
tert-Butylbenzene	ND	31.6	63.1	"	"	"	"	
Carbon tetrachloride	ND	15.8	31.6	"	"	"	"	
Chlorobenzene	ND	16.4	31.6	"	"	"	"	
Chloroethane	ND	316	631	"	"	"	"	
Chloroform	ND	31.6	63.1	"	"	"	"	
Chloromethane	ND	158	316	"	"	"	"	
2-Chlorotoluene	ND	31.6	63.1	"	"	"	"	
4-Chlorotoluene	ND	31.6	63.1	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	158	316	"	"	"	"	
Dibromochloromethane	ND	63.1	126	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	19.1	31.6	"	"	"	"	
Dibromomethane	ND	31.6	63.1	"	"	"	"	
1,2-Dichlorobenzene	ND	15.8	31.6	"	"	"	"	
1,3-Dichlorobenzene	ND	15.8	31.6	"	"	"	"	
1,4-Dichlorobenzene	ND	15.8	31.6	"	"	"	"	
Dichlorodifluoromethane	ND	63.1	126	"	"	"	"	
1,1-Dichloroethane	ND	18.7	31.6	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	15.8	31.6	"	"	"	"	
1,1-Dichloroethene	ND	16.9	31.6	"	"	"	"	
cis-1,2-Dichloroethene	ND	15.8	31.6	"	"	"	"	
trans-1,2-Dichloroethene	ND	15.8	31.6	"	"	"	"	
1,2-Dichloropropane	ND	15.8	31.6	"	"	"	"	
1,3-Dichloropropane	ND	15.8	31.6	"	"	"	"	
2,2-Dichloropropane	ND	31.6	63.1	"	"	"	"	
1,1-Dichloropropene	ND	31.6	63.1	"	"	"	"	

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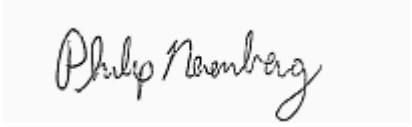

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
cis-1,3-Dichloropropene	ND	15.8	31.6	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	31.6	63.1	"	"	"	"	
Ethylbenzene	ND	15.8	31.6	"	"	"	"	
Hexachlorobutadiene	ND	63.1	126	"	"	"	"	
2-Hexanone	ND	316	631	"	"	"	"	
Isopropylbenzene	ND	31.6	63.1	"	"	"	"	
4-Isopropyltoluene	ND	31.6	63.1	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	316	631	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	37.7	63.1	"	"	"	"	
Methylene chloride	ND	158	316	"	"	"	"	Q-31
Naphthalene	ND	63.1	126	"	"	"	"	
n-Propylbenzene	ND	15.8	31.6	"	"	"	"	
Styrene	ND	31.6	63.1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	15.8	31.6	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	15.8	31.6	"	"	"	"	
Tetrachloroethene (PCE)	ND	15.8	31.6	"	"	"	"	
Toluene	ND	31.6	63.1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	158	316	"	"	"	"	
1,2,4-Trichlorobenzene	ND	158	316	"	"	"	"	
1,1,1-Trichloroethane	ND	15.8	31.6	"	"	"	"	
1,1,2-Trichloroethane	ND	15.8	31.6	"	"	"	"	
Trichloroethene (TCE)	ND	22.9	31.6	"	"	"	"	
Trichlorofluoromethane	ND	31.6	63.1	"	"	"	"	
1,2,3-Trichloropropane	ND	31.6	63.1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31.6	63.1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31.6	63.1	"	"	"	"	
Vinyl chloride	ND	22.9	31.6	"	"	"	"	
m,p-Xylene	ND	31.6	63.1	"	"	"	"	
o-Xylene	ND	15.8	31.6	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 101 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*112 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*104 %*	*Limits: 70-130 %*	"	"	"	

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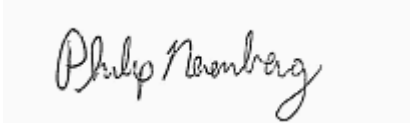

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
Acetone	ND	624	1250	ug/kg dry	50	02/17/11 15:24	5035/8260B	
Benzene	ND	8.74	15.6	"	"	"	"	
Bromobenzene	ND	17.0	31.2	"	"	"	"	
Bromochloromethane	ND	15.6	31.2	"	"	"	"	
Bromodichloromethane	ND	15.6	31.2	"	"	"	"	
Bromoform	ND	31.2	62.4	"	"	"	"	
Bromomethane	ND	312	312	"	"	"	"	
2-Butanone (MEK)	ND	312	624	"	"	"	"	
n-Butylbenzene	ND	31.2	62.4	"	"	"	"	
sec-Butylbenzene	ND	31.2	62.4	"	"	"	"	
tert-Butylbenzene	ND	31.2	62.4	"	"	"	"	
Carbon tetrachloride	ND	15.6	31.2	"	"	"	"	
Chlorobenzene	ND	16.2	31.2	"	"	"	"	
Chloroethane	ND	312	624	"	"	"	"	
Chloroform	ND	31.2	62.4	"	"	"	"	
Chloromethane	ND	156	312	"	"	"	"	
2-Chlorotoluene	ND	31.2	62.4	"	"	"	"	
4-Chlorotoluene	ND	31.2	62.4	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	156	312	"	"	"	"	
Dibromochloromethane	ND	62.4	125	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	18.9	31.2	"	"	"	"	
Dibromomethane	ND	31.2	62.4	"	"	"	"	
1,2-Dichlorobenzene	ND	15.6	31.2	"	"	"	"	
1,3-Dichlorobenzene	ND	15.6	31.2	"	"	"	"	
1,4-Dichlorobenzene	ND	15.6	31.2	"	"	"	"	
Dichlorodifluoromethane	ND	62.4	125	"	"	"	"	
1,1-Dichloroethane	ND	18.5	31.2	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	28.1	31.2	"	"	"	"	
1,1-Dichloroethene	ND	16.7	31.2	"	"	"	"	
cis-1,2-Dichloroethene	ND	15.6	31.2	"	"	"	"	
trans-1,2-Dichloroethene	ND	15.6	31.2	"	"	"	"	
1,2-Dichloropropane	ND	15.6	31.2	"	"	"	"	
1,3-Dichloropropane	ND	15.6	31.2	"	"	"	"	
2,2-Dichloropropane	ND	31.2	62.4	"	"	"	"	
1,1-Dichloropropene	ND	31.2	62.4	"	"	"	"	

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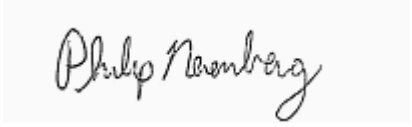

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
cis-1,3-Dichloropropene	ND	15.6	31.2	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	31.2	62.4	"	"	"	"	
Ethylbenzene	ND	15.6	31.2	"	"	"	"	
Hexachlorobutadiene	ND	62.4	125	"	"	"	"	
2-Hexanone	ND	312	624	"	"	"	"	
Isopropylbenzene	ND	31.2	62.4	"	"	"	"	
4-Isopropyltoluene	ND	31.2	62.4	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	312	624	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	37.3	62.4	"	"	"	"	
Methylene chloride	ND	156	312	"	"	"	"	Q-31
Naphthalene	ND	62.4	125	"	"	"	"	
n-Propylbenzene	ND	15.6	31.2	"	"	"	"	
Styrene	ND	31.2	62.4	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	15.6	31.2	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	15.6	31.2	"	"	"	"	
Tetrachloroethene (PCE)	ND	15.6	31.2	"	"	"	"	
Toluene	ND	31.2	62.4	"	"	"	"	
1,2,3-Trichlorobenzene	ND	156	312	"	"	"	"	
1,2,4-Trichlorobenzene	ND	156	312	"	"	"	"	
1,1,1-Trichloroethane	ND	15.6	31.2	"	"	"	"	
1,1,2-Trichloroethane	ND	15.6	31.2	"	"	"	"	
Trichloroethene (TCE)	ND	22.6	31.2	"	"	"	"	
Trichlorofluoromethane	ND	31.2	62.4	"	"	"	"	
1,2,3-Trichloropropane	ND	31.2	62.4	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31.2	62.4	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31.2	62.4	"	"	"	"	
Vinyl chloride	ND	22.7	31.2	"	"	"	"	
m,p-Xylene	ND	31.2	62.4	"	"	"	"	
o-Xylene	ND	15.6	31.2	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 99 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*112 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	

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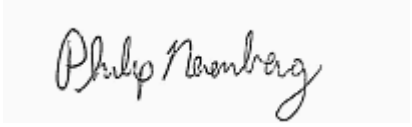

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4 @ 6-7' (A11B241-05)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
Acetone	ND	573	1150	ug/kg dry	50	02/17/11 15:48	5035/8260B	
Benzene	ND	8.02	14.3	"	"	"	"	
Bromobenzene	ND	15.6	28.7	"	"	"	"	
Bromochloromethane	ND	14.3	28.7	"	"	"	"	
Bromodichloromethane	ND	14.3	28.7	"	"	"	"	
Bromoform	ND	28.7	57.3	"	"	"	"	
Bromomethane	ND	287	287	"	"	"	"	
2-Butanone (MEK)	ND	287	573	"	"	"	"	
n-Butylbenzene	ND	28.7	57.3	"	"	"	"	
sec-Butylbenzene	ND	28.7	57.3	"	"	"	"	
tert-Butylbenzene	ND	28.7	57.3	"	"	"	"	
Carbon tetrachloride	ND	14.3	28.7	"	"	"	"	
Chlorobenzene	ND	14.9	28.7	"	"	"	"	
Chloroethane	ND	287	573	"	"	"	"	
Chloroform	ND	28.7	57.3	"	"	"	"	
Chloromethane	ND	143	287	"	"	"	"	
2-Chlorotoluene	ND	28.7	57.3	"	"	"	"	
4-Chlorotoluene	ND	28.7	57.3	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	143	287	"	"	"	"	
Dibromochloromethane	ND	57.3	115	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	17.4	28.7	"	"	"	"	
Dibromomethane	ND	28.7	57.3	"	"	"	"	
1,2-Dichlorobenzene	ND	14.3	28.7	"	"	"	"	
1,3-Dichlorobenzene	ND	14.3	28.7	"	"	"	"	
1,4-Dichlorobenzene	ND	14.3	28.7	"	"	"	"	
Dichlorodifluoromethane	ND	57.3	115	"	"	"	"	
1,1-Dichloroethane	ND	17.0	28.7	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	14.3	28.7	"	"	"	"	
1,1-Dichloroethene	ND	15.4	28.7	"	"	"	"	
cis-1,2-Dichloroethene	ND	14.3	28.7	"	"	"	"	
trans-1,2-Dichloroethene	ND	14.3	28.7	"	"	"	"	
1,2-Dichloropropane	ND	14.3	28.7	"	"	"	"	
1,3-Dichloropropane	ND	14.3	28.7	"	"	"	"	
2,2-Dichloropropane	ND	28.7	57.3	"	"	"	"	
1,1-Dichloropropene	ND	28.7	57.3	"	"	"	"	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4 @ 6-7' (A11B241-05)			**Matrix: Soil**		**Batch: 1102302**			**V-06**
cis-1,3-Dichloropropene	ND	14.3	28.7	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	28.7	57.3	"	"	"	"	
Ethylbenzene	ND	14.3	28.7	"	"	"	"	
Hexachlorobutadiene	ND	57.3	115	"	"	"	"	
2-Hexanone	ND	287	573	"	"	"	"	
Isopropylbenzene	ND	28.7	57.3	"	"	"	"	
4-Isopropyltoluene	ND	28.7	57.3	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	287	573	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	34.2	57.3	"	"	"	"	
Methylene chloride	ND	143	287	"	"	"	"	Q-31
Naphthalene	ND	57.3	115	"	"	"	"	
n-Propylbenzene	ND	14.3	28.7	"	"	"	"	
Styrene	ND	28.7	57.3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	14.3	28.7	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	14.3	28.7	"	"	"	"	
Tetrachloroethene (PCE)	ND	14.3	28.7	"	"	"	"	
Toluene	ND	28.7	57.3	"	"	"	"	
1,2,3-Trichlorobenzene	ND	143	287	"	"	"	"	
1,2,4-Trichlorobenzene	ND	143	287	"	"	"	"	
1,1,1-Trichloroethane	ND	14.3	28.7	"	"	"	"	
1,1,2-Trichloroethane	ND	14.3	28.7	"	"	"	"	
Trichloroethene (TCE)	ND	20.7	28.7	"	"	"	"	
Trichlorofluoromethane	ND	28.7	57.3	"	"	"	"	
1,2,3-Trichloropropane	ND	28.7	57.3	"	"	"	"	
1,2,4-Trimethylbenzene	ND	28.7	57.3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	28.7	57.3	"	"	"	"	
Vinyl chloride	ND	20.8	28.7	"	"	"	"	
m,p-Xylene	ND	28.7	57.3	"	"	"	"	
o-Xylene	ND	14.3	28.7	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 99 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*108 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	

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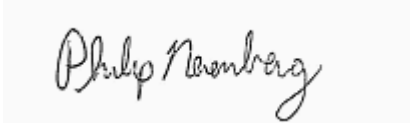

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-4 (A11B241-06)			**Matrix: Water**		**Batch: 1102311**			
Acetone	ND	10.0	20.0	ug/L	1	02/17/11 18:21	EPA 8260B	
Benzene	ND	0.125	0.250	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.250	0.500	"	"	"	"	
Bromodichloromethane	ND	0.250	0.500	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon tetrachloride	ND	0.250	0.500	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	

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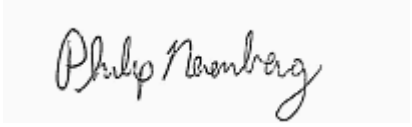

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-4 (A11B241-06)			**Matrix: Water**		**Batch: 1102311**			
cis-1,3-Dichloropropene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	2.50	5.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.250	0.500	"	"	"	"	
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	1.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 90 %*	*Limits: 80-120 %*	"	"	"	
1,4-Difluorobenzene (Surr)			*101 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*98 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*104 %*	*Limits: 80-120 %*	"	"	"	

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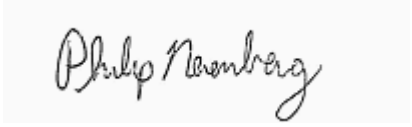

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-3 (A11B241-07)			**Matrix: Water**		**Batch: 1102311**			
Acetone	ND	10.0	20.0	ug/L	1	02/17/11 18:46	EPA 8260B	
Benzene	ND	0.125	0.250	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.250	0.500	"	"	"	"	
Bromodichloromethane	ND	0.250	0.500	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon tetrachloride	ND	0.250	0.500	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-3 (A11B241-07)			**Matrix: Water**		**Batch: 1102311**			
cis-1,3-Dichloropropene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	2.50	5.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.250	0.500	"	"	"	"	
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	1.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 91 %*	*Limits: 80-120 %*	"	"	"	
1,4-Difluorobenzene (Surr)			*95 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*110 %*	*Limits: 80-120 %*	"	"	"	

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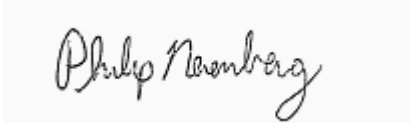

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-2 (A11B241-08)			**Matrix: Water**		**Batch: 1102311**			
Acetone	ND	10.0	20.0	ug/L	1	02/17/11 19:12	EPA 8260B	
Benzene	ND	0.125	0.250	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.250	0.500	"	"	"	"	
Bromodichloromethane	**0.410**	0.250	0.500	"	"	"	"	J
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon tetrachloride	ND	0.250	0.500	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
Chloroform	**1.01**	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-2 (A11B241-08)			**Matrix: Water**		**Batch: 1102311**			
cis-1,3-Dichloropropene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	2.50	5.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**0.420**	0.250	0.500	"	"	"	"	J
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	1.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 95 %*	*Limits: 80-120 %*	"	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*101 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*109 %*	*Limits: 80-120 %*	"	"	"	

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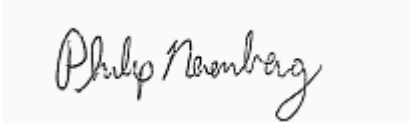

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-1 (A11B241-09)			**Matrix: Water**		**Batch: 1102311**			
Acetone	ND	10.0	20.0	ug/L	1	02/17/11 19:37	EPA 8260B	
Benzene	ND	0.125	0.250	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.250	0.500	"	"	"	"	
Bromodichloromethane	**0.450**	0.250	0.500	"	"	"	"	J
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon tetrachloride	ND	0.250	0.500	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
Chloroform	**0.900**	0.500	1.00	"	"	"	"	J
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-1 (A11B241-09)			**Matrix: Water**		**Batch: 1102311**			
cis-1,3-Dichloropropene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	2.50	5.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**0.450**	0.250	0.500	"	"	"	"	J
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	1.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 91 %*	*Limits: 80-120 %*	"	"	"	
1,4-Difluorobenzene (Surr)			*98 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*102 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*102 %*	*Limits: 80-120 %*	"	"	"	

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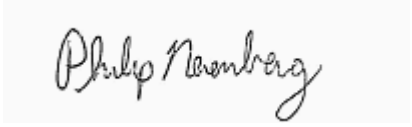

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102421**			**C-07**
Aroclor 1016	ND	---	11.6	ug/kg dry	1	02/28/11 22:49	EPA 8082A	
Aroclor 1221	ND	---	11.6	"	"	"	"	
Aroclor 1232	ND	---	11.6	"	"	"	"	
Aroclor 1242	ND	---	11.6	"	"	"	"	
Aroclor 1248	ND	---	11.6	"	"	"	"	
Aroclor 1254	ND	---	11.6	"	"	"	"	
Aroclor 1260	ND	---	11.6	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 62 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*71 %*	*Limits: 55-130 %*	"	"	"	
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102421**			**C-07**
Aroclor 1016	ND	---	12.1	ug/kg dry	1	02/28/11 23:24	EPA 8082A	
Aroclor 1221	ND	---	12.1	"	"	"	"	
Aroclor 1232	ND	---	12.1	"	"	"	"	
Aroclor 1242	ND	---	12.1	"	"	"	"	
Aroclor 1248	ND	---	12.1	"	"	"	"	
Aroclor 1254	ND	---	12.1	"	"	"	"	
Aroclor 1260	ND	---	12.1	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*74 %*	*Limits: 55-130 %*	"	"	"	

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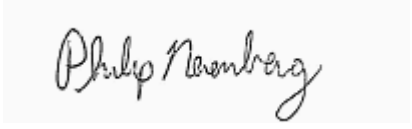

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102422**			
Acenaphthene	ND	---	11.1	ug/kg dry	1	03/01/11 12:41	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.1	"	"	"	"	
Anthracene	ND	---	11.1	"	"	"	"	
Benz(a)anthracene	ND	---	11.1	"	"	"	"	
Benzo(a)pyrene	ND	---	11.1	"	"	"	"	
Benzo(b+k)fluoranthene(s)	ND	---	22.2	"	"	"	"	Q-26
Benzo(g,h,i)perylene	ND	---	11.1	"	"	"	"	
Chrysene	**11.3**	---	11.1	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.1	"	"	"	"	
Fluoranthene	ND	---	11.1	"	"	"	"	
Fluorene	ND	---	11.1	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	11.1	"	"	"	"	
Naphthalene	**18.4**	---	11.1	"	"	"	"	
Phenanthrene	**14.7**	---	11.1	"	"	"	"	
Pyrene	**11.8**	---	11.1	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 53 %*	*Limits: 35-120 %*	"	"	"	
2-Fluorobiphenyl (Surr)			*64 %*	*Limits: 45-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*76 %*	*Limits: 30-120 %*	"	"	"	

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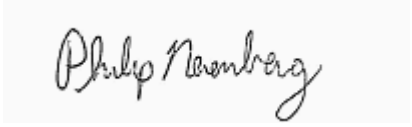

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102422**			
Acenaphthene	ND	---	11.5	ug/kg dry	1	03/01/11 13:08	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.5	"	"	"	"	
Anthracene	ND	---	11.5	"	"	"	"	
Benz(a)anthracene	**19.3**	---	11.5	"	"	"	"	
Benzo(a)pyrene	**20.8**	---	11.5	"	"	"	"	
Benzo(b+k)fluoranthene(s)	**35.6**	---	22.9	"	"	"	"	Q-26
Benzo(g,h,i)perylene	**22.2**	---	11.5	"	"	"	"	
Chrysene	**25.2**	---	11.5	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.5	"	"	"	"	
Fluoranthene	**29.8**	---	11.5	"	"	"	"	
Fluorene	ND	---	11.5	"	"	"	"	
Indeno(1,2,3-cd)pyrene	**18.4**	---	11.5	"	"	"	"	
Naphthalene	**37.3**	---	11.5	"	"	"	"	
Phenanthrene	**28.9**	---	11.5	"	"	"	"	
Pyrene	**32.9**	---	11.5	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 64 %*	*Limits: 35-120 %*	"	"	"	
2-Fluorobiphenyl (Surr)			*73 %*	*Limits: 45-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*84 %*	*Limits: 30-120 %*	"	"	"	

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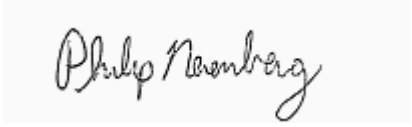

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1@ 5-6' (A11B241-01)			**Matrix: Soil**		**Batch: 1102401**			
Antimony	ND	---	1.32	mg/kg dry	10	02/23/11 15:00	EPA 6020	
Arsenic	ND	---	2.64	"	"	"	"	
Beryllium	ND	---	1.32	"	"	"	"	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**28.1**	---	2.64	"	"	"	"	
Copper	**24.3**	---	5.29	"	"	"	"	
Lead	**19.6**	---	1.32	"	"	"	"	
Mercury	ND	---	0.106	"	"	"	"	
Nickel	**26.6**	---	2.64	"	"	"	"	
Selenium	ND	---	2.64	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
Thallium	ND	---	1.32	"	"	"	"	
Zinc	**80.6**	---	5.29	"	"	"	"	
B2@ 5-6' (A11B241-02)			**Matrix: Soil**		**Batch: 1102401**			
Antimony	ND	---	1.23	mg/kg dry	10	02/23/11 15:03	EPA 6020	
Arsenic	ND	---	2.46	"	"	"	"	
Beryllium	ND	---	1.23	"	"	"	"	
Cadmium	ND	---	1.23	"	"	"	"	
Chromium	**15.9**	---	2.46	"	"	"	"	
Copper	**15.1**	---	4.93	"	"	"	"	
Lead	**11.4**	---	1.23	"	"	"	"	
Mercury	ND	---	0.0986	"	"	"	"	
Nickel	**16.6**	---	2.46	"	"	"	"	
Selenium	ND	---	2.46	"	"	"	"	
Silver	ND	---	1.23	"	"	"	"	
Thallium	ND	---	1.23	"	"	"	"	
Zinc	**53.8**	---	4.93	"	"	"	"	
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102401**			
Antimony	ND	---	1.35	mg/kg dry	10	02/23/11 15:06	EPA 6020	
Arsenic	ND	---	2.70	"	"	"	"	
Beryllium	ND	---	1.35	"	"	"	"	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**30.9**	---	2.70	"	"	"	"	
Copper	**19.6**	---	5.41	"	"	"	"	
Lead	**7.20**	---	1.35	"	"	"	"	

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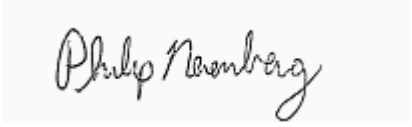

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102401**			
Mercury	**0.130**	---	0.108	mg/kg dry	10	"	EPA 6020	
Nickel	**79.5**	---	2.70	"	"	"	"	
Selenium	ND	---	2.70	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
Thallium	ND	---	1.35	"	"	"	"	
Zinc	**48.0**	---	5.41	"	"	"	"	
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102401**			
Antimony	**7.23**	---	1.26	mg/kg dry	10	02/24/11 15:42	EPA 6020	
Arsenic	ND	---	2.51	"	"	"	"	
Beryllium	ND	---	1.26	"	"	"	"	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**19.8**	---	2.51	"	"	"	"	
Copper	**39.4**	---	5.03	"	"	"	"	
Lead	**65.8**	---	1.26	"	"	"	"	
Mercury	**0.200**	---	0.101	"	"	"	"	
Nickel	**23.1**	---	2.51	"	"	"	"	
Selenium	ND	---	2.51	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
Thallium	ND	---	1.26	"	"	"	"	
Zinc	**176**	---	5.03	"	"	"	"	
B4 @ 6-7' (A11B241-05)			**Matrix: Soil**		**Batch: 1102401**			
Antimony	ND	---	1.21	mg/kg dry	10	02/24/11 15:45	EPA 6020	
Arsenic	ND	---	2.43	"	"	"	"	
Beryllium	ND	---	1.21	"	"	"	"	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**14.9**	---	2.43	"	"	"	"	
Copper	**15.4**	---	4.86	"	"	"	"	
Lead	**24.1**	---	1.21	"	"	"	"	
Mercury	ND	---	0.0971	"	"	"	"	
Nickel	**15.7**	---	2.43	"	"	"	"	
Selenium	ND	---	2.43	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
Thallium	ND	---	1.21	"	"	"	"	
Zinc	**47.9**	---	4.86	"	"	"	"	
B-4 (A11B241-06)			**Matrix: Water**		**Batch: 1102391**			

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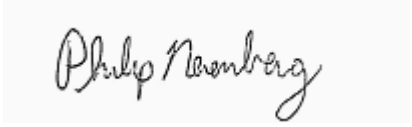

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-4 (A11B241-06)			**Matrix: Water**		**Batch: 1102391**			
Antimony	ND	---	1.00	ug/L	1	02/24/11 17:00	EPA 6020	
Arsenic	**2.91**	---	2.00	"	"	"	"	
Beryllium	**1.21**	---	1.00	"	"	"	"	
Cadmium	ND	---	1.00	"	"	"	"	
Chromium	**73.8**	---	2.00	"	"	"	"	
Copper	**50.0**	---	4.00	"	"	"	"	
Lead	**14.8**	---	1.00	"	"	"	"	
Mercury	**0.140**	---	0.0800	"	"	"	"	
Nickel	**73.3**	---	2.00	"	"	"	"	
Selenium	ND	---	2.00	"	"	"	"	
Silver	ND	---	1.00	"	"	"	"	
Thallium	ND	---	1.00	"	"	"	"	
Zinc	**116**	---	4.00	"	"	"	"	
B-3 (A11B241-07)			**Matrix: Water**		**Batch: 1102391**			
Antimony	ND	---	1.00	ug/L	1	02/24/11 17:03	EPA 6020	
Arsenic	**7.77**	---	2.00	"	"	"	"	
Beryllium	**2.80**	---	1.00	"	"	"	"	
Cadmium	**1.04**	---	1.00	"	"	"	"	
Chromium	**223**	---	2.00	"	"	"	"	
Copper	**131**	---	4.00	"	"	"	"	
Lead	**41.6**	---	1.00	"	"	"	"	
Mercury	**0.346**	---	0.0800	"	"	"	"	
Nickel	**283**	---	2.00	"	"	"	"	
Selenium	ND	---	2.00	"	"	"	"	
Silver	ND	---	1.00	"	"	"	"	
Thallium	ND	---	1.00	"	"	"	"	
Zinc	**285**	---	4.00	"	"	"	"	
B-2 (A11B241-08)			**Matrix: Water**		**Batch: 1102391**			
Antimony	ND	---	1.00	ug/L	1	02/24/11 17:16	EPA 6020	
Arsenic	**4.10**	---	2.00	"	"	"	"	
Beryllium	**2.32**	---	1.00	"	"	"	"	
Cadmium	ND	---	1.00	"	"	"	"	
Chromium	**111**	---	2.00	"	"	"	"	
Copper	**77.5**	---	4.00	"	"	"	"	
Lead	**33.7**	---	1.00	"	"	"	"	

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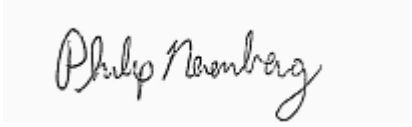

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B-2 (A11B241-08)			**Matrix: Water**		**Batch: 1102391**			
Mercury	**0.151**	---	0.0800	ug/L	1	"	EPA 6020	
Nickel	**97.9**	---	2.00	"	"	"	"	
Selenium	ND	---	2.00	"	"	"	"	
Silver	ND	---	1.00	"	"	"	"	
Thallium	ND	---	1.00	"	"	"	"	
Zinc	**187**	---	4.00	"	"	"	"	
B-1 (A11B241-09)			**Matrix: Water**		**Batch: 1102391**			
Antimony	ND	---	1.00	ug/L	1	02/24/11 17:19	EPA 6020	
Arsenic	**5.97**	---	2.00	"	"	"	"	
Beryllium	**2.19**	---	1.00	"	"	"	"	
Cadmium	ND	---	1.00	"	"	"	"	
Chromium	**160**	---	2.00	"	"	"	"	
Copper	**90.2**	---	4.00	"	"	"	"	
Lead	**25.4**	---	1.00	"	"	"	"	
Mercury	**0.179**	---	0.0800	"	"	"	"	
Nickel	**160**	---	2.00	"	"	"	"	
Selenium	ND	---	2.00	"	"	"	"	
Silver	ND	---	1.00	"	"	"	"	
Thallium	ND	---	1.00	"	"	"	"	
Zinc	**214**	---	4.00	"	"	"	"	

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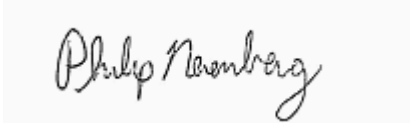

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1@ 5-6' (A11B241-01)			**Matrix: Soil**		**Batch: 1102331**			
% Solids	**76.9**	---	1.00	% by Weight	1	02/19/11 10:39	Apex SOP	
B2@ 5-6' (A11B241-02)			**Matrix: Soil**		**Batch: 1102331**			
% Solids	**85.6**	---	1.00	% by Weight	1	02/19/11 10:39	Apex SOP	
B3@ 5-6' (A11B241-03)			**Matrix: Soil**		**Batch: 1102331**			
% Solids	**81.3**	---	1.00	% by Weight	1	02/19/11 10:39	Apex SOP	
B4 @ 0-1' (A11B241-04)			**Matrix: Soil**		**Batch: 1102331**			
% Solids	**81.2**	---	1.00	% by Weight	1	02/19/11 10:39	Apex SOP	
B4 @ 6-7' (A11B241-05)			**Matrix: Soil**		**Batch: 1102331**			
% Solids	**82.2**	---	1.00	% by Weight	1	02/19/11 10:39	Apex SOP	

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification (HCID) Screen by NWTPH

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102303 - EPA 3546 (Fuels)							**Soil**					
Blank (1102303-BLK1)					Prepared: 02/17/11 09:16 Analyzed: 02/17/11 20:57							
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	"	"	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Batch 1102353 - EPA 3510C (Acid Extraction)							**Water**					
Blank (1102353-BLK2)					Prepared: 02/21/11 10:21 Analyzed: 02/21/11 23:18							
NWTPH-HCID												
Gasoline Range Organics	ND	---	0.100	mg/L	2.5	---	---	---	---	---	---	
Diesel Range Organics	ND	---	0.250	"	"	---	---	---	---	---	---	
Oil Range Organics	ND	---	0.250	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 88 %*	*Limits: 50-150 %*			*Dilution: 2.5x*					

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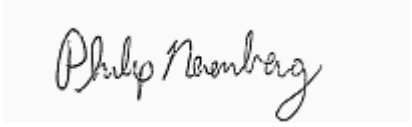

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel Range (C10-C22) and Oil Range (>C22-C40) Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102420 - EPA 3546 (Fuels)							**Soil**					
Blank (1102420-BLK1)					Prepared: 02/24/11 11:40 Analyzed: 02/24/11 16:51							
NWTPH-Dx												
Diesel Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	40.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 102 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (1102420-BS1)					Prepared: 02/24/11 11:40 Analyzed: 02/24/11 17:16							
NWTPH-Dx												
Diesel Range Organics	96.2	---	20.0	mg/kg wet	1	83.3	---	115	70-130%	---	---	
Oil Range Organics	91.0	---	40.0	"	"	"	---	109	"	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 108 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (1102420-DUP1)					Prepared: 02/24/11 11:40 Analyzed: 02/24/11 22:36							
QC Source Sample: B4 @ 0-1' (A11B241-04)												
NWTPH-Dx												
Diesel Range Organics	ND	---	26.6	mg/kg dry	1	---	19.4	---	---	***	30%	
Oil Range Organics	**201**	---	53.2	"	"	---	236	---	---	16	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 105 %*	*Limits: 50-150 %*			*Dilution: 1x*					

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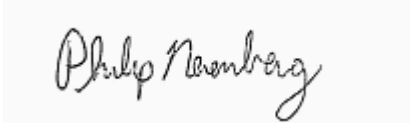

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102302 - EPA 5035A							**Soil**					
Blank (1102302-BLK1)					Prepared: 02/17/11 09:24 Analyzed: 02/17/11 12:13							
5035/8260B												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	7.00	12.5	"	"	---	---	---	---	---	---	
Bromobenzene	ND	13.6	25.0	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Bromoform	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Bromomethane	ND	250	250	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	13.0	25.0	"	"	---	---	---	---	---	---	
Chloroethane	ND	250	500	"	"	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Chloromethane	ND	125	250	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	15.2	25.0	"	"	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	14.8	25.0	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	13.4	25.0	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	"	"	---	---	---	---	---	---	

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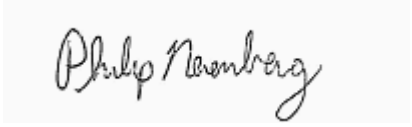

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102302 - EPA 5035A							**Soil**					
Blank (1102302-BLK1)					Prepared: 02/17/11 09:24 Analyzed: 02/17/11 12:13							
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	"	"	---	---	---	---	---	---	
2-Hexanone	ND	250	500	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	29.8	50.0	"	"	---	---	---	---	---	---	
Methylene chloride	ND	125	250	"	"	---	---	---	---	---	---	Q-31
Naphthalene	ND	50.0	100	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	18.1	25.0	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	18.2	25.0	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	"	"	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	"	"	---	---	---	---	---	---	

Surr: Dibromofluoromethane (Surr)	*Recovery: 106 %*	*Limits: 70-130 %*	*Dilution: 1x*	
1,4-Difluorobenzene (Surr)	*104 %*	*70-130 %*	*"*	
Toluene-d8 (Surr)	*106 %*	*70-130 %*	*"*	
4-Bromofluorobenzene (Surr)	*107 %*	*70-130 %*	*"*	

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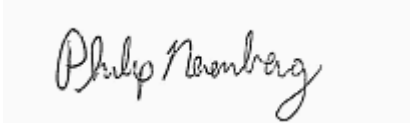

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102302 - EPA 5035A							**Soil**					
LCS (1102302-BS1)					Prepared: 02/17/11 09:24 Analyzed: 02/17/11 11:25							
5035/8260B												
Acetone	1760	500	1000	ug/kg wet	50	2000	---	88	65-135%	---	---	
Benzene	1050	7.00	12.5	"	"	1000	---	105	"	---	---	
Bromobenzene	990	13.6	25.0	"	"	"	---	99	"	---	---	
Bromochloromethane	1090	12.5	25.0	"	"	"	---	109	"	---	---	
Bromodichloromethane	1100	12.5	25.0	"	"	"	---	110	"	---	---	
Bromoform	935	25.0	50.0	"	"	"	---	94	"	---	---	
Bromomethane	1220	250	250	"	"	"	---	122	"	---	---	
2-Butanone (MEK)	1720	250	500	"	"	2000	---	86	"	---	---	
n-Butylbenzene	1120	25.0	50.0	"	"	1000	---	112	"	---	---	
sec-Butylbenzene	1080	25.0	50.0	"	"	"	---	108	"	---	---	
tert-Butylbenzene	1030	25.0	50.0	"	"	"	---	103	"	---	---	
Carbon tetrachloride	1090	12.5	25.0	"	"	"	---	109	"	---	---	
Chlorobenzene	1120	13.0	25.0	"	"	"	---	112	"	---	---	
Chloroethane	1210	250	500	"	"	"	---	121	"	---	---	
Chloroform	1050	25.0	50.0	"	"	"	---	105	"	---	---	
Chloromethane	1130	125	250	"	"	"	---	113	"	---	---	
2-Chlorotoluene	1060	25.0	50.0	"	"	"	---	106	"	---	---	
4-Chlorotoluene	1040	25.0	50.0	"	"	"	---	104	"	---	---	
1,2-Dibromo-3-chloropropane	810	125	250	"	"	"	---	81	"	---	---	
Dibromochloromethane	1180	50.0	100	"	"	"	---	118	"	---	---	
1,2-Dibromoethane (EDB)	1160	15.2	25.0	"	"	"	---	116	"	---	---	
Dibromomethane	1030	25.0	50.0	"	"	"	---	103	"	---	---	
1,2-Dichlorobenzene	1080	12.5	25.0	"	"	"	---	108	"	---	---	
1,3-Dichlorobenzene	1090	12.5	25.0	"	"	"	---	109	"	---	---	
1,4-Dichlorobenzene	1060	12.5	25.0	"	"	"	---	106	"	---	---	
Dichlorodifluoromethane	980	50.0	100	"	"	"	---	98	"	---	---	
1,1-Dichloroethane	1060	14.8	25.0	"	"	"	---	106	"	---	---	
1,2-Dichloroethane (EDC)	1020	12.5	25.0	"	"	"	---	102	"	---	---	
1,1-Dichloroethene	1030	13.4	25.0	"	"	"	---	103	"	---	---	
cis-1,2-Dichloroethene	1020	12.5	25.0	"	"	"	---	102	"	---	---	
trans-1,2-Dichloroethene	1070	12.5	25.0	"	"	"	---	107	"	---	---	
1,2-Dichloropropane	1010	12.5	25.0	"	"	"	---	101	"	---	---	
1,3-Dichloropropane	1080	12.5	25.0	"	"	"	---	108	"	---	---	
2,2-Dichloropropane	1020	25.0	50.0	"	"	"	---	102	"	---	---	

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Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102302 - EPA 5035A							**Soil**					
LCS (1102302-BS1)					Prepared: 02/17/11 09:24 Analyzed: 02/17/11 11:25							
1,1-Dichloropropene	990	25.0	50.0	ug/kg wet	"	"	---	99	"	---	---	
cis-1,3-Dichloropropene	1140	12.5	25.0	"	"	"	---	114	"	---	---	
trans-1,3-Dichloropropene	1110	25.0	50.0	"	"	"	---	111	"	---	---	
Ethylbenzene	1010	12.5	25.0	"	"	"	---	101	"	---	---	
Hexachlorobutadiene	1080	50.0	100	"	"	"	---	108	"	---	---	
2-Hexanone	1880	250	500	"	"	2000	---	94	"	---	---	
Isopropylbenzene	1130	25.0	50.0	"	"	1000	---	113	"	---	---	
4-Isopropyltoluene	1080	25.0	50.0	"	"	"	---	108	"	---	---	
4-Methyl-2-pentanone (MiBK)	1970	250	500	"	"	2000	---	98	"	---	---	
Methyl tert-butyl ether (MTBE)	910	29.8	50.0	"	"	1000	---	91	"	---	---	
Methylene chloride	662	125	250	"	"	"	---	66	"	---	---	Q-31
Naphthalene	880	50.0	100	"	"	"	---	88	"	---	---	
n-Propylbenzene	1070	12.5	25.0	"	"	"	---	107	"	---	---	
Styrene	1140	25.0	50.0	"	"	"	---	114	"	---	---	
1,1,1,2-Tetrachloroethane	1110	12.5	25.0	"	"	"	---	111	"	---	---	
1,1,2,2-Tetrachloroethane	1010	12.5	25.0	"	"	"	---	101	"	---	---	
Tetrachloroethene (PCE)	1150	12.5	25.0	"	"	"	---	115	"	---	---	
Toluene	1090	25.0	50.0	"	"	"	---	109	"	---	---	
1,2,3-Trichlorobenzene	1020	125	250	"	"	"	---	102	"	---	---	
1,2,4-Trichlorobenzene	1040	125	250	"	"	"	---	104	"	---	---	
1,1,1-Trichloroethane	1060	12.5	25.0	"	"	"	---	106	"	---	---	
1,1,2-Trichloroethane	1110	12.5	25.0	"	"	"	---	111	"	---	---	
Trichloroethene (TCE)	1090	18.1	25.0	"	"	"	---	109	"	---	---	
Trichlorofluoromethane	1230	25.0	50.0	"	"	"	---	123	"	---	---	
1,2,3-Trichloropropane	1050	25.0	50.0	"	"	"	---	105	"	---	---	
1,2,4-Trimethylbenzene	1110	25.0	50.0	"	"	"	---	111	"	---	---	
1,3,5-Trimethylbenzene	1080	25.0	50.0	"	"	"	---	108	"	---	---	
Vinyl chloride	1090	18.2	25.0	"	"	"	---	109	"	---	---	
m,p-Xylene	2330	25.0	50.0	"	"	2000	---	117	"	---	---	
o-Xylene	1140	12.5	25.0	"	"	1000	---	114	"	---	---	

Surr: Dibromofluoromethane (Surr)	*Recovery: 101 %*	*Limits: 70-130 %*	*Dilution: 1x*	
1,4-Difluorobenzene (Surr)	*101 %*	*70-130 %*	*"*	
Toluene-d8 (Surr)	*108 %*	*70-130 %*	*"*	
4-Bromofluorobenzene (Surr)	*106 %*	*70-130 %*	*"*	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102311 - EPA 5030B							**Water**					
Blank (1102311-BLK1)					Prepared: 02/17/11 12:07 Analyzed: 02/17/11 14:00							
EPA 8260B												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.125	0.250	"	"	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	"	"	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102311 - EPA 5030B							**Water**					
Blank (1102311-BLK1)					Prepared: 02/17/11 12:07 Analyzed: 02/17/11 14:00							
1,1-Dichloropropene	ND	0.500	1.00	ug/L	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	"	"	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Methylene chloride	ND	2.50	5.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	0.250	0.500	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	"	"	---	---	---	---	---	---	

Surr: Dibromofluoromethane (Surr)	*Recovery: 95 %*	*Limits: 80-120 %*	*Dilution: 1x*
1,4-Difluorobenzene (Surr)	*98 %*	*80-120 %*	*"*
Toluene-d8 (Surr)	*101 %*	*80-120 %*	*"*
4-Bromofluorobenzene (Surr)	*110 %*	*80-120 %*	*"*

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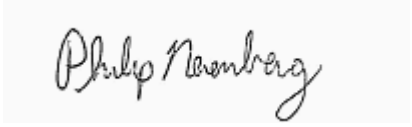

Philip Nerenberg, Lab Director

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102311 - EPA 5030B							**Water**					
LCS (1102311-BS1)					Prepared: 02/17/11 12:07 Analyzed: 02/17/11 13:09							
EPA 8260B												
Acetone	36.0	10.0	20.0	ug/L	1	40.0	---	90	70-130%	---	---	
Benzene	18.6	0.125	0.250	"	"	20.0	---	93	"	---	---	
Bromobenzene	21.1	0.250	0.500	"	"	"	---	105	"	---	---	
Bromochloromethane	17.3	0.250	0.500	"	"	"	---	87	"	---	---	
Bromodichloromethane	18.6	0.250	0.500	"	"	"	---	93	"	---	---	
Bromoform	21.3	0.500	1.00	"	"	"	---	106	"	---	---	
Bromomethane	28.1	5.00	5.00	"	"	"	---	140	"	---	---	EST
2-Butanone (MEK)	37.9	5.00	10.0	"	"	40.0	---	95	"	---	---	
n-Butylbenzene	23.7	0.500	1.00	"	"	20.0	---	118	"	---	---	
sec-Butylbenzene	22.5	0.500	1.00	"	"	"	---	113	"	---	---	
tert-Butylbenzene	25.2	0.500	1.00	"	"	"	---	126	"	---	---	
Carbon tetrachloride	17.1	0.250	0.500	"	"	"	---	86	"	---	---	
Chlorobenzene	20.6	0.250	0.500	"	"	"	---	103	"	---	---	
Chloroethane	26.3	5.00	5.00	"	"	"	---	131	"	---	---	ESTa
Chloroform	19.0	0.500	1.00	"	"	"	---	95	"	---	---	
Chloromethane	16.3	2.50	5.00	"	"	"	---	81	"	---	---	
2-Chlorotoluene	22.0	0.500	1.00	"	"	"	---	110	"	---	---	
4-Chlorotoluene	23.1	0.500	1.00	"	"	"	---	115	"	---	---	
1,2-Dibromo-3-chloropropane	21.2	2.50	5.00	"	"	"	---	106	"	---	---	
Dibromochloromethane	20.2	0.500	1.00	"	"	"	---	101	"	---	---	
1,2-Dibromoethane (EDB)	19.6	0.250	0.500	"	"	"	---	98	"	---	---	
Dibromomethane	19.3	0.500	1.00	"	"	"	---	97	"	---	---	
1,2-Dichlorobenzene	21.0	0.250	0.500	"	"	"	---	105	"	---	---	
1,3-Dichlorobenzene	19.8	0.250	0.500	"	"	"	---	99	"	---	---	
1,4-Dichlorobenzene	20.4	0.250	0.500	"	"	"	---	102	"	---	---	
Dichlorodifluoromethane	15.0	0.500	1.00	"	"	"	---	75	"	---	---	
1,1-Dichloroethane	18.5	0.250	0.500	"	"	"	---	92	"	---	---	
1,2-Dichloroethane (EDC)	18.2	0.250	0.500	"	"	"	---	91	"	---	---	
1,1-Dichloroethene	17.7	0.250	0.500	"	"	"	---	89	"	---	---	
cis-1,2-Dichloroethene	19.5	0.250	0.500	"	"	"	---	98	"	---	---	
trans-1,2-Dichloroethene	18.9	0.250	0.500	"	"	"	---	95	"	---	---	
1,2-Dichloropropane	17.0	0.250	0.500	"	"	"	---	85	"	---	---	
1,3-Dichloropropane	19.9	0.500	1.00	"	"	"	---	99	"	---	---	
2,2-Dichloropropane	19.8	0.500	1.00	"	"	"	---	99	"	---	---	

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102311 - EPA 5030B							**Water**					
LCS (1102311-BS1)					Prepared: 02/17/11 12:07 Analyzed: 02/17/11 13:09							
1,1-Dichloropropene	20.1	0.500	1.00	ug/L	"	"	---	100	"	---	---	
cis-1,3-Dichloropropene	21.2	0.250	0.500	"	"	"	---	106	"	---	---	
trans-1,3-Dichloropropene	20.9	0.500	1.00	"	"	"	---	105	"	---	---	
Ethylbenzene	21.6	0.250	0.500	"	"	"	---	108	"	---	---	
Hexachlorobutadiene	22.5	2.50	5.00	"	"	"	---	113	"	---	---	
2-Hexanone	36.8	5.00	10.0	"	"	40.0	---	92	"	---	---	
Isopropylbenzene	21.6	0.500	1.00	"	"	20.0	---	108	"	---	---	
4-Isopropyltoluene	22.5	0.500	1.00	"	"	"	---	113	"	---	---	
4-Methyl-2-pentanone (MiBK)	39.1	5.00	10.0	"	"	40.0	---	98	"	---	---	
Methyl tert-butyl ether (MTBE)	19.3	0.500	1.00	"	"	20.0	---	97	"	---	---	
Methylene chloride	17.2	2.50	5.00	"	"	"	---	86	"	---	---	
Naphthalene	18.7	1.00	2.00	"	"	"	---	94	"	---	---	
n-Propylbenzene	23.2	0.250	0.500	"	"	"	---	116	"	---	---	
Styrene	20.5	0.500	1.00	"	"	"	---	102	"	---	---	
1,1,1,2-Tetrachloroethane	19.0	0.250	0.500	"	"	"	---	95	"	---	---	
1,1,2,2-Tetrachloroethane	21.1	0.250	0.500	"	"	"	---	106	"	---	---	
Tetrachloroethene (PCE)	19.3	0.250	0.500	"	"	"	---	97	"	---	---	
Toluene	19.7	0.500	1.00	"	"	"	---	99	"	---	---	
1,2,3-Trichlorobenzene	21.6	0.500	1.00	"	"	"	---	108	"	---	---	
1,2,4-Trichlorobenzene	22.0	1.00	2.00	"	"	"	---	110	"	---	---	
1,1,1-Trichloroethane	17.2	0.250	0.500	"	"	"	---	86	"	---	---	
1,1,2-Trichloroethane	22.1	0.250	0.500	"	"	"	---	111	"	---	---	
Trichloroethene (TCE)	19.2	0.250	0.500	"	"	"	---	96	"	---	---	
Trichlorofluoromethane	24.7	0.500	1.00	"	"	"	---	123	"	---	---	
1,2,3-Trichloropropane	19.7	0.500	1.00	"	"	"	---	98	"	---	---	
1,2,4-Trimethylbenzene	23.6	0.500	1.00	"	"	"	---	118	"	---	---	
1,3,5-Trimethylbenzene	23.0	0.500	1.00	"	"	"	---	115	"	---	---	
Vinyl chloride	19.9	0.250	0.500	"	"	"	---	100	"	---	---	
m,p-Xylene	43.4	0.500	1.00	"	"	40.0	---	108	"	---	---	
o-Xylene	22.0	0.250	0.500	"	"	20.0	---	110	"	---	---	

Surr: Dibromofluoromethane (Surr)	*Recovery: 93 %*	*Limits: 80-120 %*	*Dilution: 1x*
1,4-Difluorobenzene (Surr)	*94 %*	*80-120 %*	*"*
Toluene-d8 (Surr)	*100 %*	*80-120 %*	*"*
4-Bromofluorobenzene (Surr)	*106 %*	*80-120 %*	*"*

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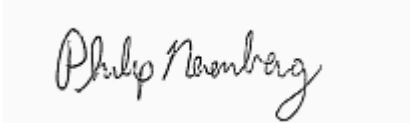

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102421 - EPA 3546							**Soil**					
Blank (1102421-BLK1)					Prepared: 02/24/11 11:00		Analyzed: 02/28/11 22:14					**C-07**
EPA 8082A												
Aroclor 1016	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	10.0	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	10.0	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	10.0	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	10.0	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	10.0	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	10.0	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 85 %*		*Limits: 50-125 %*		*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*98 %*		*55-130 %*		*"*					
LCS (1102421-BS1)					Prepared: 02/24/11 11:00		Analyzed: 02/28/11 22:32					**C-07**
EPA 8082A												
Aroclor 1016	300	---	10.0	ug/kg wet	1	250	---	120	40-140%	---	---	
Aroclor 1016	298	---	10.0	"	"	"	---	119	"	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 88 %*		*Limits: 50-125 %*		*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*95 %*		*55-130 %*		*"*					
Duplicate (1102421-DUP1)					Prepared: 02/24/11 11:00		Analyzed: 02/28/11 23:07					**C-07**
QC Source Sample: B3@ 5-6' (A11B241-03)												
EPA 8082A												
Aroclor 1016	ND	---	11.5	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	11.5	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 65 %*		*Limits: 50-125 %*		*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*69 %*		*55-130 %*		*"*					

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102422 - EPA 3546							**Soil**					
Blank (1102422-BLK1)					Prepared: 02/24/11 11:25 Analyzed: 03/01/11 11:19							
EPA 8270D (SIM)												
Acenaphthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	10.0	"	"	---	---	---	---	---	---	
Anthracene	ND	---	10.0	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	10.0	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	10.0	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	10.0	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	10.0	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	---	20.0	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	10.0	"	"	---	---	---	---	---	---	
Chrysene	ND	---	10.0	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	10.0	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	10.0	"	"	---	---	---	---	---	---	
Fluorene	ND	---	10.0	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	10.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	10.0	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	10.0	"	"	---	---	---	---	---	---	
Pyrene	ND	---	10.0	"	"	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 72 %*		*Limits: 35-120 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*79 %*		*45-120 %*				*"*			
p-Terphenyl-d14 (Surr)			*95 %*		*30-120 %*				*"*			
LCS (1102422-BS1)					Prepared: 02/24/11 11:25 Analyzed: 03/01/11 11:46							
EPA 8270D (SIM)												
Acenaphthene	841	---	10.0	ug/kg wet	1	1000	---	84	45-125%	---	---	
Acenaphthylene	886	---	10.0	"	"	"	---	89	"	---	---	
Anthracene	898	---	10.0	"	"	"	---	90	55-125%	---	---	
Benz(a)anthracene	880	---	10.0	"	"	"	---	88	50-125%	---	---	
Benzo(a)pyrene	956	---	10.0	"	"	"	---	96	"	---	---	
Benzo(b)fluoranthene	768	---	10.0	"	"	"	---	77	45-125%	---	---	
Benzo(k)fluoranthene	948	---	10.0	"	"	"	---	95	"	---	---	
Benzo(b+k)fluoranthene(s)	1740	---	20.0	"	"	2000	---	87	"	---	---	
Benzo(g,h,i)perylene	968	---	10.0	"	"	1000	---	97	40-125%	---	---	
Chrysene	933	---	10.0	"	"	"	---	93	55-125%	---	---	
Dibenz(a,h)anthracene	972	---	10.0	"	"	"	---	97	40-125%	---	---	

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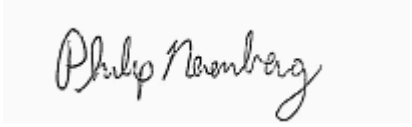

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102422 - EPA 3546							**Soil**					
LCS (1102422-BS1)					Prepared: 02/24/11 11:25 Analyzed: 03/01/11 11:46							
Fluoranthene	941	---	10.0	ug/kg wet	"	"	---	94	55-125%	---	---	
Fluorene	829	---	10.0	"	"	"	---	83	50-125%	---	---	
Indeno(1,2,3-cd)pyrene	915	---	10.0	"	"	"	---	92	40-125%	---	---	
Naphthalene	821	---	10.0	"	"	"	---	82	"	---	---	
Phenanthrene	864	---	10.0	"	"	"	---	86	50-125%	---	---	
Pyrene	913	---	10.0	"	"	"	---	91	45-125%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 71 %*		*Limits: 35-120 %*		*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*75 %*		*45-120 %*		*"*					
p-Terphenyl-d14 (Surr)			*86 %*		*30-120 %*		*"*					
Duplicate (1102422-DUP1)					Prepared: 02/24/11 11:25 Analyzed: 03/01/11 13:36							
QC Source Sample: B4 @ 0-1' (A11B241-04)												
EPA 8270D (SIM)												
Acenaphthene	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	11.3	"	"	---	10.1	---	---	***	30%	
Anthracene	ND	---	11.3	"	"	---	6.70	---	---	***	30%	
Benz(a)anthracene	**16.4**	---	11.3	"	"	---	19.3	---	---	16	30%	
Benzo(a)pyrene	**17.7**	---	11.3	"	"	---	20.8	---	---	17	30%	
Benzo(b+k)fluoranthene(s)	**31.3**	---	22.6	"	"	---	35.6	---	---	13	30%	Q-26
Benzo(g,h,i)perylene	**27.7**	---	11.3	"	"	---	22.2	---	---	22	30%	
Chrysene	**19.4**	---	11.3	"	"	---	25.2	---	---	26	30%	
Dibenz(a,h)anthracene	ND	---	11.3	"	"	---	ND	---	---	---	30%	
Fluoranthene	**25.9**	---	11.3	"	"	---	29.8	---	---	14	30%	
Fluorene	ND	---	11.3	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	**18.4**	---	11.3	"	"	---	18.4	---	---	0.007	30%	
Naphthalene	**37.6**	---	11.3	"	"	---	37.3	---	---	1	30%	
Phenanthrene	**31.4**	---	11.3	"	"	---	28.9	---	---	8	30%	
Pyrene	**27.7**	---	11.3	"	"	---	32.9	---	---	17	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 56 %*		*Limits: 35-120 %*		*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*66 %*		*45-120 %*		*"*					
p-Terphenyl-d14 (Surr)			*80 %*		*30-120 %*		*"*					

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102391 - EPA 3015A							**Water**					
Blank (1102391-BLK1)					Prepared: 02/23/11 07:45 Analyzed: 02/24/11 16:03							
EPA 6020												
Antimony	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	---	2.00	"	"	---	---	---	---	---	---	
Beryllium	ND	---	1.00	"	"	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Copper	ND	---	4.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Nickel	ND	---	2.00	"	"	---	---	---	---	---	---	
Selenium	ND	---	2.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
Thallium	ND	---	1.00	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
LCS (1102391-BS1)					Prepared: 02/23/11 07:45 Analyzed: 02/24/11 16:07							
EPA 6020												
Antimony	33.4	---	1.00	ug/L	1	27.8	---	120	80-120%	---	---	
Arsenic	53.9	---	2.00	"	"	55.6	---	97	85-115%	---	---	
Beryllium	27.9	---	1.00	"	"	27.8	---	100	80-120%	---	---	
Cadmium	57.0	---	1.00	"	"	55.6	---	103	"	---	---	
Chromium	52.3	---	2.00	"	"	"	---	94	"	---	---	
Copper	56.1	---	4.00	"	"	"	---	101	"	---	---	
Lead	54.1	---	1.00	"	"	"	---	97	"	---	---	
Mercury	2.30	---	0.0800	"	"	2.22	---	104	"	---	---	
Nickel	54.0	---	2.00	"	"	55.6	---	97	"	---	---	
Selenium	27.5	---	2.00	"	"	27.8	---	99	"	---	---	
Silver	28.7	---	1.00	"	"	"	---	103	"	---	---	
Thallium	27.8	---	1.00	"	"	"	---	100	"	---	---	
Zinc	53.4	---	4.00	"	"	55.6	---	96	"	---	---	

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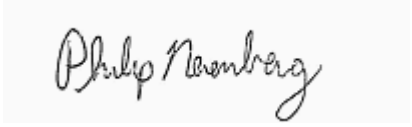

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Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102401 - EPA 3051A							**Soil**					
Blank (1102401-BLK1)					Prepared: 02/23/11 09:35 Analyzed: 02/23/11 14:13							
EPA 6020												
Antimony	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Arsenic	ND	---	2.00	"	"	---	---	---	---	---	---	
Beryllium	ND	---	1.00	"	"	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Copper	ND	---	4.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Nickel	ND	---	2.00	"	"	---	---	---	---	---	---	
Selenium	ND	---	2.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
Thallium	ND	---	1.00	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
LCS (1102401-BS1)					Prepared: 02/23/11 09:35 Analyzed: 02/23/11 14:16							
EPA 6020												
Antimony	29.7	---	1.00	mg/kg wet	10	25.0	---	119	80-120%	---	---	
Arsenic	51.4	---	2.00	"	"	50.0	---	103	"	---	---	
Beryllium	25.6	---	1.00	"	"	25.0	---	102	"	---	---	
Cadmium	50.6	---	1.00	"	"	50.0	---	101	"	---	---	
Chromium	50.2	---	2.00	"	"	"	---	100	"	---	---	
Copper	52.7	---	4.00	"	"	"	---	105	"	---	---	
Lead	47.8	---	1.00	"	"	"	---	96	"	---	---	
Mercury	2.08	---	0.0800	"	"	2.00	---	104	"	---	---	
Nickel	51.8	---	2.00	"	"	50.0	---	104	"	---	---	
Selenium	25.6	---	2.00	"	"	25.0	---	102	"	---	---	
Silver	25.2	---	1.00	"	"	"	---	101	"	---	---	
Thallium	24.6	---	1.00	"	"	"	---	99	"	---	---	
Zinc	51.5	---	4.00	"	"	50.0	---	103	"	---	---	
Duplicate (1102401-DUP1)					Prepared: 02/23/11 09:35 Analyzed: 02/23/11 15:09							
QC Source Sample: B3@ 5-6' (A11B241-03)												
EPA 6020												
Antimony	ND	---	1.33	mg/kg dry	10	---	0.176	---	---	***	40%	

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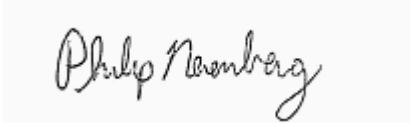

Philip Nerenberg, Lab Director

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102401 - EPA 3051A							**Soil**					
Duplicate (1102401-DUP1)					Prepared: 02/23/11 09:35		Analyzed: 02/23/11 15:09					
QC Source Sample: B3@ 5-6' (A11B241-03)												
Arsenic	ND	---	2.66	mg/kg dry	"	---	2.43	---	---	***	40%	
Beryllium	ND	---	1.33	"	"	---	0.297	---	---	***	40%	
Cadmium	ND	---	1.33	"	"	---	0.149	---	---	***	40%	
Chromium	**43.8**	---	2.66	"	"	---	30.9	---	---	35	40%	
Copper	**22.3**	---	5.32	"	"	---	19.6	---	---	13	40%	
Lead	**9.04**	---	1.33	"	"	---	7.20	---	---	23	40%	
Mercury	ND	---	0.106	"	"	---	0.130	---	---	***	40%	Q-05
Nickel	**86.0**	---	2.66	"	"	---	79.5	---	---	8	40%	
Selenium	ND	---	2.66	"	"	---	ND	---	---	---	40%	
Silver	ND	---	1.33	"	"	---	ND	---	---	---	40%	
Thallium	ND	---	1.33	"	"	---	ND	---	---	---	40%	
Zinc	**59.7**	---	5.32	"	"	---	48.0	---	---	22	40%	
Matrix Spike (1102401-MS1)					Prepared: 02/23/11 09:35		Analyzed: 02/24/11 15:39					
QC Source Sample: B3@ 5-6' (A11B241-03)												
EPA 6020												
Antimony	31.8	---	1.31	mg/kg dry	10	32.7	0.176	97	75-125%	---	---	
Arsenic	63.8	---	2.62	"	"	65.4	2.43	94	"	---	---	
Beryllium	32.4	---	1.31	"	"	32.7	0.297	98	"	---	---	
Cadmium	66.2	---	1.31	"	"	65.4	0.149	101	"	---	---	
Chromium	94.7	---	2.62	"	"	"	30.9	98	"	---	---	
Copper	81.7	---	5.23	"	"	"	19.6	95	"	---	---	
Lead	71.2	---	1.31	"	"	"	7.20	98	"	---	---	
Mercury	2.69	---	0.105	"	"	2.62	0.130	98	"	---	---	
Nickel	111	---	2.62	"	"	65.4	79.5	48	"	---	---	Q-01
Selenium	31.1	---	2.62	"	"	32.7	ND	95	"	---	---	
Silver	32.8	---	1.31	"	"	"	ND	100	"	---	---	
Thallium	31.2	---	1.31	"	"	"	ND	95	"	---	---	
Zinc	121	---	5.23	"	"	65.4	48.0	112	"	---	---	
Post Spike (1102401-PS1)					Prepared: 02/24/11 15:43		Analyzed: 02/24/11 18:03					
QC Source Sample: B3@ 5-6' (A11B241-03)												
EPA 6020												
Nickel	1050	---		ug/L	10	476	560	103	80-120%		---	

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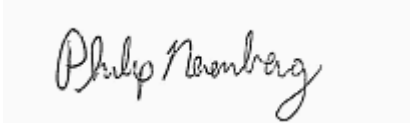

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1102331 - Total Solids (Dry Weight)									**Soil**			
Duplicate (1102331-DUP1)					Prepared: 02/18/11 10:52 Analyzed: 02/19/11 10:39							
QC Source Sample: B1@ 5-6' (A11B241-01)												
Apex SOP												
% Solids	**75.1**	---	1.00	% by Weight	1	---	76.9	---	---	2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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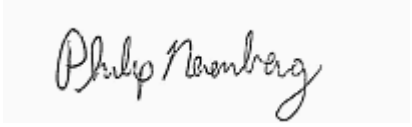

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Amec Earth and Environmental, Inc	Project: **Fred Meyer Ellensburg**	
7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification (HCID) Screen by NWTPH

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102353							
A11B241-06	Water	NWTPH-HCID	02/16/11 10:50	02/21/11 10:21	1060mL/5mL	1000mL/5mL	0.94
A11B241-07	Water	NWTPH-HCID	02/16/11 11:25	02/21/11 10:21	1030mL/5mL	1000mL/5mL	0.97
A11B241-08	Water	NWTPH-HCID	02/16/11 11:50	02/21/11 10:21	1000mL/5mL	1000mL/5mL	1.00
A11B241-09	Water	NWTPH-HCID	02/16/11 12:05	02/21/11 10:21	1030mL/5mL	1000mL/5mL	0.97

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102303							
A11B241-01	Soil	NWTPH-HCID	02/16/11 08:45	02/17/11 14:08	10.82g/10mL	10g/10mL	0.92
A11B241-02	Soil	NWTPH-HCID	02/16/11 09:15	02/17/11 14:08	9.4g/10mL	10g/10mL	1.06
A11B241-03	Soil	NWTPH-HCID	02/16/11 09:45	02/17/11 14:08	9.99g/10mL	10g/10mL	1.00
A11B241-04	Soil	NWTPH-HCID	02/16/11 10:15	02/17/11 14:08	11.11g/10mL	10g/10mL	0.90
A11B241-05	Soil	NWTPH-HCID	02/16/11 10:30	02/17/11 14:08	9.21g/10mL	10g/10mL	1.09

Diesel Range (C10-C22) and Oil Range (>C22-C40) Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102420							
A11B241-03	Soil	NWTPH-Dx	02/16/11 09:45	02/24/11 11:40	14.62g/5mL	15g/5mL	1.03
A11B241-04	Soil	NWTPH-Dx	02/16/11 10:15	02/24/11 11:40	14.57g/5mL	15g/5mL	1.03

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102311							
A11B241-06	Water	EPA 8260B	02/16/11 10:50	02/17/11 13:07	5mL/5mL	5mL/5mL	1.00
A11B241-07	Water	EPA 8260B	02/16/11 11:25	02/17/11 13:07	5mL/5mL	5mL/5mL	1.00
A11B241-08	Water	EPA 8260B	02/16/11 11:50	02/17/11 13:07	5mL/5mL	5mL/5mL	1.00
A11B241-09	Water	EPA 8260B	02/16/11 12:05	02/17/11 13:07	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102302							
A11B241-01	Soil	5035/8260B	02/16/11 08:45	02/17/11 11:45	13.119g/10mL	10g/10mL	0.76

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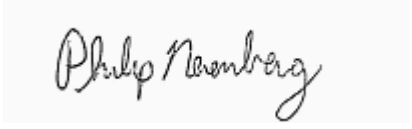

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11B241-02	Soil	5035/8260B	02/16/11 09:15	02/17/11 11:45	12.874g/10mL	10g/10mL	0.78
A11B241-03	Soil	5035/8260B	02/16/11 09:45	02/17/11 11:45	11.909g/10mL	10g/10mL	0.84
A11B241-04	Soil	5035/8260B	02/16/11 10:15	02/17/11 11:45	12.114g/10mL	10g/10mL	0.83
A11B241-05	Soil	5035/8260B	02/16/11 10:30	02/17/11 11:45	13.085g/10mL	10g/10mL	0.76

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102421							
A11B241-03	Soil	EPA 8082A	02/16/11 09:45	02/24/11 11:00	10.56g/5mL	10g/5mL	0.95
A11B241-04	Soil	EPA 8082A	02/16/11 10:15	02/24/11 11:00	10.21g/5mL	10g/5mL	0.98

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102422							
A11B241-03	Soil	EPA 8270D (SIM)	02/16/11 09:45	02/24/11 11:25	11.08g/5mL	10g/5mL	0.90
A11B241-04	Soil	EPA 8270D (SIM)	02/16/11 10:15	02/24/11 11:25	10.75g/5mL	10g/5mL	0.93

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102391							
A11B241-06	Water	EPA 6020	02/16/11 10:50	02/23/11 07:45	45mL/50mL	45mL/50mL	1.00
A11B241-07	Water	EPA 6020	02/16/11 11:25	02/23/11 07:45	45mL/50mL	45mL/50mL	1.00
A11B241-08	Water	EPA 6020	02/16/11 11:50	02/23/11 07:45	45mL/50mL	45mL/50mL	1.00
A11B241-09	Water	EPA 6020	02/16/11 12:05	02/23/11 07:45	45mL/50mL	45mL/50mL	1.00

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1102401							
A11B241-01	Soil	EPA 6020	02/16/11 08:45	02/23/11 09:35	0.492g/50mL	0.5g/50mL	1.02
A11B241-02	Soil	EPA 6020	02/16/11 09:15	02/23/11 09:35	0.474g/50mL	0.5g/50mL	1.05
A11B241-03	Soil	EPA 6020	02/16/11 09:45	02/23/11 09:35	0.455g/50mL	0.5g/50mL	1.10

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11B241-04	Soil	EPA 6020	02/16/11 10:15	02/23/11 09:35	0.49g/50mL	0.5g/50mL	1.02
A11B241-05	Soil	EPA 6020	02/16/11 10:30	02/23/11 09:35	0.501g/50mL	0.5g/50mL	1.00

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7376 SW Durham Road	Project Number: 161M123500	**Reported:**
Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

Notes and Definitions

Qualifiers:

C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
EST	Result reported as an Estimated Value. Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
ESTa	Result reported as an Estimated Value. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Data is likely biased high.
J	Estimated Result . Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-01	Percent recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample or duplicate concentrations near or below the reporting level.
Q-26	Peak separation for Benzo(b) and Benzo(k)fluoranthenes does not meet method specified criteria. Reported result includes the combined area of the two isomers and should be considered the total of Benzo(b+k)Fluoranthenes.
Q-31	Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Data is likely biased low.
V-06	Sample aliquot was subsampled from a soil jar with minimal headspace. The subsampled aliquot was preserved in methanol within 48 hours of sampling.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

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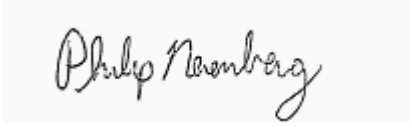

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Portland, OR 97224	Project Manager: Robin Johnson	03/14/11 13:35

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

*** Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Philip Nerenberg

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Amec Earth and Environmental, Inc	Project:	Fred Meyer Ellensburg	
7376 SW Durham Road	Project Number:	161M123500	Reported:
Portland, OR 97224	Project Manager:	Robin Johnson	03/14/11 13:35

APEX LABS — **CHAIN OF CUSTODY** — Lab # A11B241 — COC 1 of 1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: AMEC — Project Mgr: Robin Johnson — Project Name: Fred Meyer Ellensburg — Project # 161M123500

Address: 7376 SW Durham Road, Portland, OR — Phone: 503-639-3400 — Fax: 503-620-7892 — Email: Robin.Johnson@Amec.com

Sampled by: Joe Fassio

Site Location: OR (WA circled) Other: ______

ANALYSIS REQUEST

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID (See Note)	NWTPH-Dx	NWTPH-Gx	BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs	8270 SIM PAHs	8082 PCBs	8081 Chlor. Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	1200-COLS	1200-Z
1	B1G5-6'		2/16/11	845	S	2	X						X					X				
2	B2G5-6'		2/16/11	915	S	2	X						X					X				
3	B3G5-6'		2/16/11	945	S	2	X						X					X				
4	B4G0-1'		2/16/11	1015	S	2	X						X					X				
5	B4G6-7'		2/16/11	1030	S	2	X						X					X				
6	B-4		2/16/11	1050	W	7	X						X					X				
7	B-3		2/16/11	1125	W	7	X						X					X				
8	B-2		2/16/11	1150	W	7	X						X					X				
9	B-1		2/16/11	1205	W	7	X						X					X				
10																						

Normal Turn Around Time (TAT) = 7-10 Business Days (YES circled) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ______

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:
If TPH is detected by HCID in Soil or groundwater followup with TPH-Gx and/or TPH-Dx as appropriate. If diesel or oil-range TPH is detected in Soil please followup with PCB and PAH (8270 SIM) analysis.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 2/17/11	Signature: John Roth Date: 2/17/11	Signature: John Roth Date: 2-17-11	Signature: [signature] Date: 2-17-11
Printed Name: Joe Fassio Time: 937	Printed Name: John Roth Time: 0937	Printed Name: John Roth Time: 1029	Printed Name: Kamanda Hinckley Time: 1029
Company: AMEC	Company: AMEC	Company: AMEC	Company: Apex