December 11, 2015
Project No. 5-61M-09691-1

amec foster wheeler

Fred Meyer Stores, Inc.
P.O. Box 42121
Portland, Oregon 97242

Attention: Daniel Hermann
NW Region Environmental Manager

Subject: Underground Storage Tank Release Site Characterization Report
Fred Meyer Hazel Dell Fuel Center
7400 NW Hwy 99, Vancouver, WA
Washington Department of Ecology UST Site ID # 620243

Dear Mr. Hermann:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) is pleased to present this report which documents the characterization and disposal of petroleum-contaminated soil (PCS) attributed to a release from previously undocumented and unregistered underground storage tanks (USTs) that were discovered during construction activities at the above-referenced subject site (Site) between August 6th and September 18th, 2015. A Site Location Map is presented as Figure 1. The work was completed in accordance with our proposal dated September 1, 2015.

BACKGROUND AND SITE CONDITIONS

The Site is owned by Fred Meyer Stores, Inc. (Fred Meyer) and is located adjacent to the south of the existing Hazel Dell Fred Meyer store (7700 NE Highway 99) in Vancouver, WA. During the summer of 2015, Fred Meyer began construction of a new Fred Meyer-branded fuel center on the Site. Prior to the construction of the new fuel center, the Site was occupied by a building that was leased as a thrift store until 2015. Prior to the thrift store's occupancy, the former Site building, which was constructed in the late 1970s, was used as an automotive repair center.

Prior to the former Site building's construction in the late 1970s, the Site reportedly was formerly occupied by a retail gasoline station. The former gas station is believed to have operated on the east side of the Site from the mid-1960s to the late 1970s. However, the exact location of the former gas station and its UST system and its dates of operation are unknown. Additionally, no data regarding the registration or decommissioning of the former gas station's USTs is available.

Amec Foster Wheeler Environment & Infrastructure, Inc.
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel+1 (503) 639-3400
Fax+1 (503) 620-7892
www.amecfw.com

Construction of the new Fred Meyer fuel center included canopy footing foundation excavations along the central portion of the Site, completed to approximately 5 to 7 feet below ground surface (bgs). In addition, a large area to the south, east, and north of the canopy foundations was excavated to a depth of approximately 6 to 10 feet bgs for the installation of a subsurface stormwater retention vault (Figure 2).

INITIAL CONTAMINATED SOIL DISCOVERY AND CHARACTERIZATION

AUGUST 6, 2015

On August 6, 2015, Fred Meyer's general contractor, Meng-Hannan Construction, Inc. (Portland, Oregon) encountered suspected petroleum contamination in soil at approximately 6 to 7 feet bgs on the east side of the Site while completing a fuel center canopy footing foundation excavation. At Fred Meyer's request, Amec Foster Wheeler field personnel visited the site to perform headspace screening of areas of suspected of soil contamination with a photoionization detector (PID).

Amec Foster Wheeler field personnel collected soil samples for laboratory analysis from the excavation floor where elevated headspace readings were observed (samples "EX-S-7Ft" and "EX-C-7Ft", Figure 2 and Table 1) and from the stockpiled suspected contaminated soil removed from the excavation (samples "SP1(N) COMP" and "SP2(E) COMP", Table 1). These soil samples were analyzed for one or more of the following:

- Gasoline-range petroleum hydrocarbons by Method NWTPH-Gx;
- Diesel- and oil-range petroleum hydrocarbons by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260; and
- Leachable lead by EPA Toxicity Characteristic Leaching Procedure.

Laboratory reports for project samples are included in Attachment A. All project soil sample results are listed in Table 1.

The laboratory analytical results from these initial samples indicated that the encountered soil contamination was consistent with an older, weathered gasoline release. Concentrations of gasoline-range petroleum hydrocarbons (TPH-Gx) exceeded the Model Toxics Control Act (MTCA) Method A cleanup level in the south side of the footing excavation floor (the area where field screening indicated the greatest evidence of contamination). Concentrations of underlying volatile petroleum constituents (benzene, toluene, ethylbenzene, and xylenes [BTEX]) detected in the soil samples were below their respective MTCA Method A cleanup levels (samples "EX-S-7FT" and "EX-C-7FT", Figure 2).

The laboratory results for sample "EX-S-7Ft" reported a detection in the diesel-range hydrocarbon analysis. However, the laboratory noted that this detection was due to overlap from gasoline-range product. No chlorinated VOCs, gasoline additives, or leachable lead were detected in the samples.

AUGUST 12, 2015

On August 12, 2015, Amec Foster Wheeler field personnel performed additional headspace screening of soils encountered in temporary test pits and in completed construction excavations to further evaluate the lateral and vertical extent of the petroleum contamination at the Site. Seven temporary test pits were excavated to depths of 5 to 10 feet bgs within the stormwater detention vault footprint prior to the excavation of the vault cavity. The field screening indicated that the subsurface soil contamination appeared to be located primarily in the southeast corner of the Site from approximately 5 to 8 feet bgs.

Amec Foster Wheeler submitted a total of 8 soil characterization samples collected from the test pits and foundation footer excavations for laboratory analysis. Soil samples "EX3-SW-7FT", "EX3-CE-7FT", and "EX3-SE-7FT" were collected from the floor of the completed canopy footing foundation excavation located approximately 45 feet to the west of the footer excavation where the contamination was initially discovered (Figure 2). Five soils samples collected from three test pits were submitted for laboratory analysis ("TP" series samples, Table 1 and Figure 2). These 8 soil samples were analyzed for one or more of the following:

- Gasoline-range petroleum hydrocarbons by Method NWTPH-Gx; and
- BTEX by EPA Method 8260.

Consistent with the field screening results, the highest concentrations of petroleum contaminants were detected in the test pit sample collected near the southeast corner of the Site (sample "TP-7-6FT"). Based on the analytical results of the samples collected on August 6 and 12, 2015, Amec Foster Wheeler assisted Fred Meyer in obtaining a permit to dispose of the excavated PCS at the Waste Management Subtitle D landfill in Hillsboro, Oregon under permit number 119099 OR. A copy of the permit is included in Attachment B.

CONTAMINATED SOIL SCREENING AND EXCAVATION

Between August 14 and 28, 2015, an Amec Foster Wheeler environmental scientist or environmental engineer was on Site to assist the Fred Meyer's excavation contractor in screening for the presence of PCS and segregation of petroleum-contaminated soils from non-petroleum-contaminated soils during construction excavation activities on the southeastern portion of Site.

Soil screening consisted of headspace readings using a PID calibrated to isobutylene, as well as visual and olfactory observations. Based on professional judgement and the initial characterization investigation sample results (e.g. only soils with PID readings above 40 parts per million [ppm] were determined to have TPH concentrations above 30 milligrams per kilogram [mg/kg]), soil with PID readings less than 25 ppm and no olfactory evidence of petroleum contamination were designated for off-site disposal at the East County Landfill. Soils with PID readings greater than 25 ppm (a conservative screening value) and/or olfactory evidence of petroleum contamination were designated for off-site disposal at the Waste Management Hillsboro Subtitle D Landfill.

Excavation of the stormwater detention vault cavity began near the southwest corner of the Site and proceeded eastward. Because the purpose of the excavation was not to conduct a remediation effort, the excavation did not proceed beyond the limits required to complete the construction project. Based on field screening, a total of approximately 4,500 tons of soil excavated for the installation of the stormwater detention vault and canopy foundations on the southeast portion of the Site were determined to contain PCS and were sent to Waste Management's Hillsboro Landfill. Copies of the receipts for soil disposed at the Hillsboro landfill are included in Attachment B. The approximate lateral extent of PCS removed from the vault cavity and footer foundation excavations for disposal at the Hillsboro Landfill is shown on Figure 3.

HEATING OIL UST AND GASOLINE UST SYSTEM DISCOVERY

During the excavation of the stormwater detention vault cavity on August 21, 2015, an approximately 900-gallon steel UST was encountered in the southeast portion of the Site (Figure 2). The tank had no connecting pipes and a single plugged opening at the top. No punctures or leaks were observed in the tank during removal. The product within the tank was tested by West Coast Marine and was later recycled once it was determined to consist of heating oil.

Approximately 25 feet to the southeast of the heating oil UST, 4-inch diameter steel product conveyance/vent piping, and contaminated granular backfill were encountered in the vault excavation. The piping and associated contaminated granular backfill found appeared to be from another undocumented UST system, separate from the heating oil tank. Groundwater exhibiting a petroleum sheen was observed at approximately 11 feet bgs, beneath product piping and granular backfill.

All of the steel piping was removed and separated for recycling. The surrounding granular backfill material was removed to the limits of the stormwater vault cavity construction excavation and disposed of at Hillsboro Landfill with other excavated PCS. Based on the sample collected beneath the backfill and piping (SV-6, Table 1 and Figure 2), these features appear to be associated with a former gasoline UST system. No additional tanks or tank remnants were encountered within the project excavation.

On August 21, 2015, Amec Foster Wheeler, on behalf of Fred Meyer, notified the Washington Department of Ecology (Ecology) that petroleum-impacted groundwater had been encountered near a newly discovered UST system at the Site. The Site was assigned an Environmental Report Tracking System (ERTS) No. of 659014. Amec Foster Wheeler submitted a written 30-day notice for the closure of the discovered heating oil UST to Ecology on behalf of Fred Meyer on September 18, 2015 (Attachment C). The emptied tank was then properly disposed by West Coast Marine under the supervision of Vic Uptmor of Meng-Hannan, an ICC-certified UST decommissioner (Certification #: 21073). Disposal receipts for the heating oil UST are provided in Attachment D.

CONTAMINATED STORMWATER DISPOSAL

Over the weekend of August 29 and 30, 2015, approximately 1.15 inches of rain fell in Hazel Dell. This large storm event resulted in the accumulation of stormwater within the Site's stormwater vault excavation. Because the accumulated stormwater had contacted uncovered PCS at the excavation base and lower sidewalls, it was pumped from the excavation and temporarily stored in Baker Tanks to allow for disposal profiling.

On September 2, 2015, Amec Foster Wheeler collected a sample of the stormwater for gasoline range petroleum hydrocarbons (TPH-Gx) and BTEX analysis and subsequently assisted Fred Meyer in obtaining a permit from Clark Regional Wastewater District (CRWD) to discharge the contaminated stormwater into the municipal sanitary sewer system. Analytical results for the stormwater sample ("Baker Tank") are included in Attachment A. No petroleum constituents were detected in the sample. CRWD approved discharge of the contaminated stormwater into their sanitary sewer system under permit LOD 6-2015, dated September 3, 2015 (Attachment E). Meng-Hannan discharged the collected stormwater into the sanitary sewer system (approximately 26,000 gallons in total) in a controlled manner at the approved sanitary sewer manhole in accordance with the permit requirements on September 4 and 8, 2015.

EXCAVATION EXTENT SAMPLING

On August 31st, 2015 Amec Foster Wheeler collected soil samples from floor and sidewalls of the completed stormwater detention vault excavation to document the magnitude of contamination remaining at the limits of the excavation. Sample locations were determined through field screening to identify the highest contamination remaining in a general area. Additionally, excavation floor samples were collected at the former location of the removed heating oil UST (SV-28, Figure 2) and the former locations where the separate UST cavity fill material and product piping were removed (SV-5, SV-6, and SV-31, Figure 2).

From September 8 to September 11, 2015, Meng-Hannan conducted additional excavation of the stormwater vault cavity to remove and replace the native soils on the excavation floor which were determined to be geotechnically unsuitable to support the weight of the vault. Amec Foster Wheeler personnel were not present on the Site during these soil removal activities to assist with soil screening and segregation or to document soil conditions at the final excavation floor depth. According to Meng-Hannan, an additional layer of soil varying from approximately 1 to 2 feet thick was removed from the vault floor and replaced with imported controlled density fill material. The additional excavation resulted in approximately 840 additional tons of soil with apparent petroleum contamination sent to the Hillsboro Landfill for disposal.

Figure 2 shows the results of the stormwater vault excavation extent sampling and other soil characterization sampling completed by Amec Foster Wheeler in August 2015. Sample results shown on Figure 2 are indicative of the current subsurface conditions at their respective locations - with the exception of samples TP-7, SV-4, SV-5, SV-6, SV-28, SV-31, and SV-33 which were collected from soil that was later removed for off-site disposal (i.e., samples collected beneath the USTs and product piping at elevations above the final excavation floor elevation). Table 1 provides a summary of all soil sample data, including samples of material that was later disposed off-site.

STORMWATER VAULT OUTLET BACKFILL

On November 10, 2015, Meng-Hannan installed concrete backfill within and around the trench of the subsurface outlet pipe of the newly constructed Site stormwater detention vault. This was done to prevent the pipe trench backfill from potentially providing a preferential off-Site flow pathway for residual contaminants in shallow groundwater. Meng-Hannan's letter, figure, and photographs documenting the concrete backfill installation are included in Attachment F.

CONCLUSIONS

The petroleum-contaminated soil encountered and removed from the southeast portion of the Site during the construction of the new Fred Meyer-branded fuel center appears to be from an undocumented historical release from a previously unregistered UST system associated with a former gasoline station that operated on the east side of the Site prior to the late 1970s. The previously undocumented and unregistered 900-gallon heating oil that was discovered and removed from the southeast portion of the Site did not show evidence of having had a significant release to the subsurface.

No data regarding the historical gasoline station's dates of operation or registration or decommissioning records for its USTs are currently available. It is not known if the USTs associated with the former gasoline station were removed from Site when the station was closed. No gasoline

USTs or tank remnants were encountered within the project excavation. However, it is possible that USTs could remain in the eastern portion of the Site that was not excavated for the construction project. A geophysical survey of the eastern portion of the Site is recommended to further delineate any remaining UST system components in order to better define the upgradient limit of the release source area.

Soil sample data collected from extent of the completed excavation indicates that additional subsurface contamination likely remains outside the eastern extent of the excavated area. A sheen was observed on shallow groundwater in the excavation beneath the discovered gasoline UST product piping, indicating that shallow groundwater has been impacted by the release. Because no groundwater sample data have been collected on the Site to date, an evaluation of shallow groundwater quality on the Site is recommended. Additionally, because the volatile compounds benzene, ethylbenzene, and naphthalene have been detected in soil, and evaluation of the vapor intrusion exposure pathway to the new fuel center kiosk may be appropriate.

CLOSING

We appreciate the opportunity to continue to be of service to Fred Meyer. Please feel free to contact the undersigned at (503) 639-3400 if you have any questions about this report.

Sincerely,

Amec Foster Wheeler
Environment & Infrastructure, Inc.

Joel L. Eledge, CHMM
Project Manager

Reviewed by:

John L. Kuiper, LG
Principal Geologist

State of Washington
255
Licensed Geologist
John L. Kuiper

Attachments: Figure 1 – Site Location Map
Figure 2 – Soil Sample Results
Figure 3 – Extent of Contaminated Soil Removal and Discovered UST Features
Table 1 – Soil Sample Summary
Attachment A – Analytical Laboratory Reports
Attachment B – Hillsboro Landfill Permit and Invoices
Attachment C – Ecology 30-Day Notice for UST Closure
Attachment D – UST Disposal Receipts
Attachment E – CRWD Letter of Discharge
Attachment F – Stormwater Outlet Trench Backfill Documentation

TM/JE/JK/ay

C: Robin Munroe, Ecology Toxics Cleanup Program; Bruce Chan, Kroger NW Facility Engineering

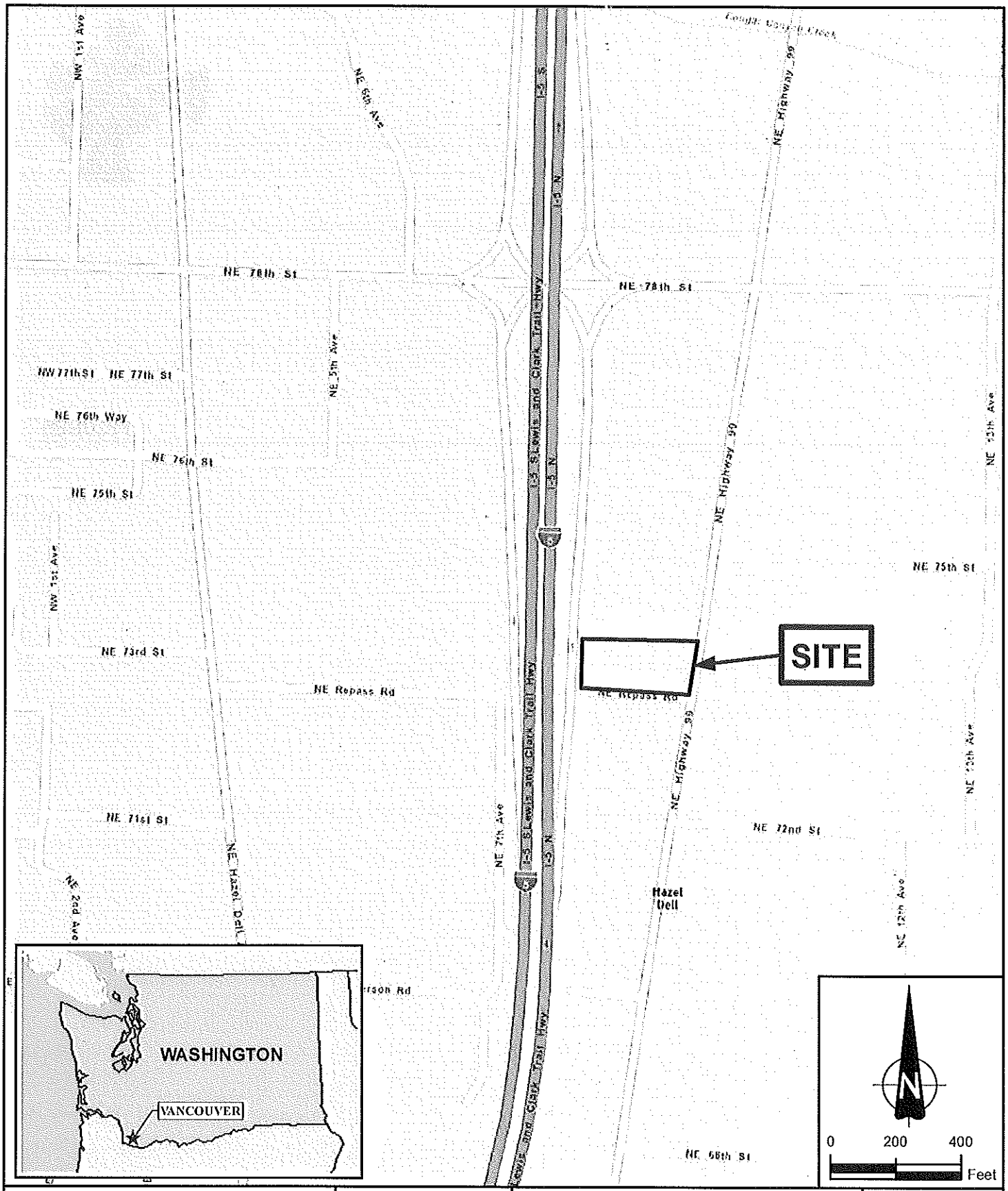
LIMITATIONS

This report was prepared exclusively for Fred Meyer Stores, Inc. by Amec Foster Wheeler Environment & Infrastructure, Inc. The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in Amec Foster Wheeler 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 report. This Petroleum Contamination Site Characterization Report is intended to be used by Fred Meyer for the Hazel Dell Fuel Center located at 7400 NW Hwy 99 in Vancouver, WA only, subject to the terms and conditions of its contract with Amec Foster Wheeler. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

REFERENCES

Washington Department of Ecology, 2004. Method A Soil Cleanup Levels for Unrestricted Land Uses. February 2001. Revised November 2004

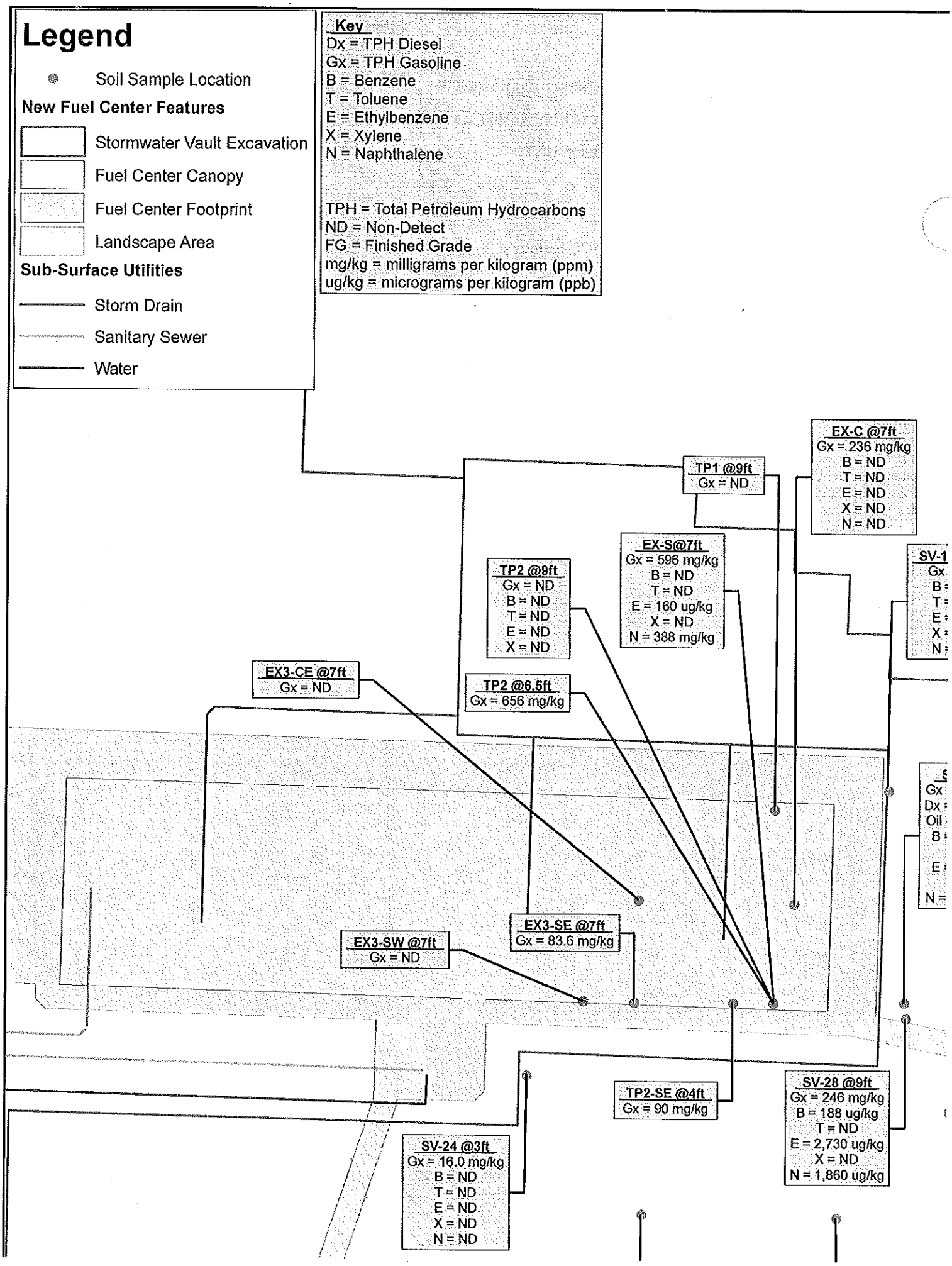
FIGURES

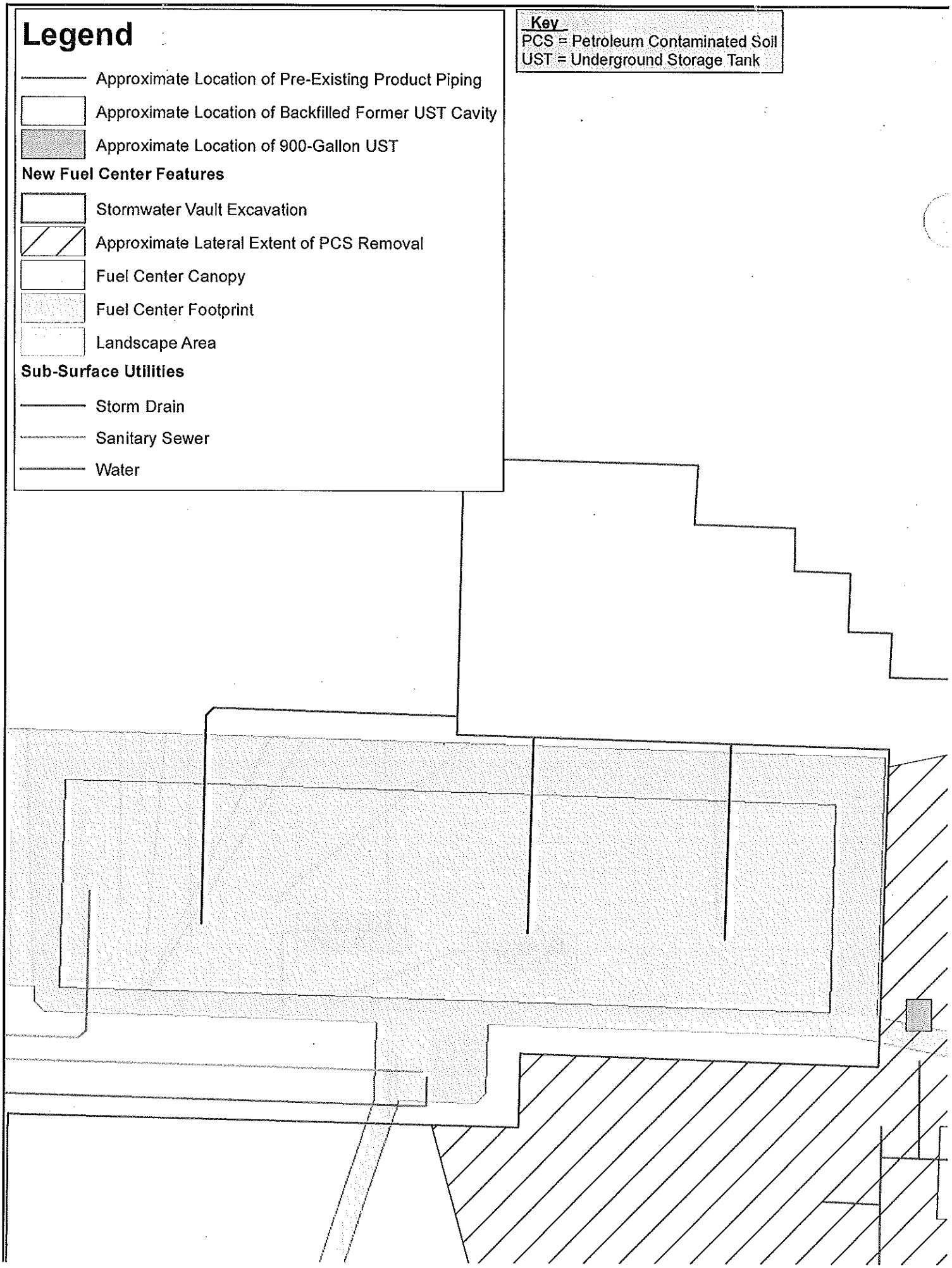


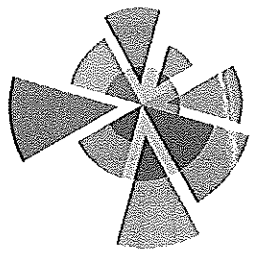
FRED MEYER		HAZEL DELL FUEL CENTER	DATE: NOVEMBER 2015
			SCALE: 1" = 400'
Amec Foster Wheeler Environment & Infrastructure, Inc. 7376 S.W. Durham Road Portland, OR 97224	amec foster wheeler	SITE LOCATION MAP	PROJECT NO.: 5-61M-09691-1
			FIGURE: 1

DRAWN BY: TM CHECKED BY: JE

K:\0000\60009691\96911 Fuel Center\DWG\1 - Site Location Map.mxd - patrick mccarthy - 11/20/2015 - 8:42:32 AM


Legend
Soil Sample Location
New Fuel Center Features
Stormwater Vault Excavation
Fuel Center Canopy
Fuel Center Footprint
Landscape Area
Sub-Surface Utilities
Storm Drain
Sanitary Sewer
Water
Key
Dx = TPH Diesel
Gx = TPH Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylene
N = Naphthalene
TPH = Total Petroleum Hydrocarbons
ND = Non-Detect
FG = Finished Grade
mg/kg = milligrams per kilogram (ppm)
ug/kg = micrograms per kilogram (ppb)
EX-C @7ft
Gx = 236 mg/kg
B = ND
T = ND
E = ND
X = ND
N = ND
TP1 @9ft
Gx = ND
EX-S@7ft
Gx = 596 mg/kg
B = ND
T = ND
E = 160 ug/kg
X = ND
N = 388 mg/kg
TP2 @9ft
Gx = ND
B = ND
T = ND
E = ND
X = ND
EX3-CE @7ft
Gx = ND
TP2 @6.5ft
Gx = 656 mg/kg
EX3-SE @7ft
Gx = 83.6 mg/kg
EX3-SW @7ft
Gx = ND
TP2-SE @4ft
Gx = 90 mg/kg
SV-28 @9ft
Gx = 246 mg/kg
B = 188 ug/kg
T = ND
E = 2,730 ug/kg
X = ND
N = 1,860 ug/kg
SV-24 @3ft
Gx = 16.0 mg/kg
B = ND
T = ND
E = ND
X = ND
N = ND

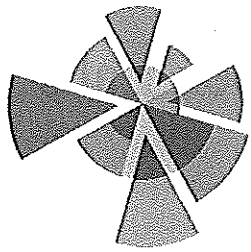

Legend
Approximate Location of Pre-Existing Product Piping
Approximate Location of Backfilled Former UST Cavity
Approximate Location of 900-Gallon UST
New Fuel Center Features
Stormwater Vault Excavation
Approximate Lateral Extent of PCS Removal
Fuel Center Canopy
Fuel Center Footprint
Landscape Area
Sub-Surface Utilities
Storm Drain
Sanitary Sewer
Water
Key
PCS = Petroleum Contaminated Soil
UST = Underground Storage Tank



TABLE

ıle Summary
ıracterization
ter (Ecology UST Site ID # 620243)
' 99, Vancouver, WA

	VOCs by EPA 8260B						Metals by EPA 6020		PAHs by EPA 8270S SIM						
	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether (MTBE	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	Naphthalene	Total Lead	TCLP Lead	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene
]	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/L	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
6	U 34.3	U 103	NT	NT	NT	NT	NT	U 0.050	NT	NT	NT	NT	NT	NT	NT
9	U 33.4	U 100	NT	NT	NT	NT	NT	U 0.050	NT	NT	NT	NT	NT	NT	NT
2	160	U 70.2	U 70.2	U 35.1	U 35.1	388	NT	NT	NT	NT	NT	NT	NT	NT	NT
5	U 34.7	U 69.5	U 69.5	U 34.7	U 34.7	U 139	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
0	7,130	33,500	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3	629	U 847	U 583	NT	NT	2,450	12.8	NT	39.1	17.1	35.8	13.4	26.3	U 11.4	31.2
	9,420	19,000	NT	NT	NT	7,330	NT	NT	NT	NT	NT	NT	NT	NT	NT
4	U 36.2	U 109	NT	NT	NT	U 72.4	NT	· NT	NT	NT	NT	NT	NT	NT	NT
7	U 37.4	U 112	NT	NT	NT	U 74.7	NT	NT	NT	NT	NT	NT	NT	NT	NT
3	U 39.6	U 119	NT	NT	NT	79.3 U	NT	NT	NT	NT	NT	NT	NT	NT	NT
9	1,340	8,350	NT	NT	NT	4,650	NT	NT	NT	NT	NT	NT	NT	NT	NT
4	U 297	3,380	NT	NT	NT	2,910	NT	NT	NT	NT	NT	NT	NT	NT	NT
3	U 36.6	U 110	NT	NT	NT	U 73.3	NT	NT	NT	NT	NT	NT	NT	NT	NT
3	U 32.7	U 98.0	NT	NT	NT	U 65.3	NT	NT	NT	NT	NT	NT	NT	NT	NT
7	U 34.3	U 103	NT	NT	NT	U 68.7	NT	NT	NT	NT	NT	NT	NT	NT	NT
2	2,730	U 1,130	NT	NT	NT	1,860	NT	NT	NT	NT	NT	NT	NT	NT	NT
2	U 37.1	U 111	NT	NT	NT	U 74.2	NT	NT	NT	NT	NT	NT	NT	NT	NT
6	U 333	U 999	NT	NT	NT	912	NT	NT	NT	NT	NT	NT	NT	NT	NT
0	6,000	9,000	100	5	NA	5,000	250	-	100	1,000	1,000	1,000	10,000	1,000	1,000



ATTACHMENT A

Analytical Laboratory Reports

Apex Labs

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

Wednesday, August 12, 2015

Kurt Harrington
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: Fred Meyer Hazel Dell FMHD / 86IM09691-0

Enclosed are the results of analyses for work order A5H0150, which was received by the laboratory on 8/6/2015 at 3:30:00PM.

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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: Fred Meyer Hazel Dell FMHD Project Number: 861M09691-0 Project Manager: Kurt Harrington	Reported: 08/12/15 16:14

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1(N) COMP	A5H0150-01	Soil	08/06/15 12:25	08/06/15 15:30
SP2(E) COMP	A5H0150-02	Soil	08/06/15 13:10	08/06/15 15:30
EX-S-7Ft	A5H0150-04	Soil	08/06/15 12:55	08/06/15 15:30
EX-C-7Ft	A5H0150-07	Soil	08/06/15 12:50	08/06/15 15:30

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
EX-S-7Ft (A5H0150-04)			**Matrix: Soil**		**Batch: 5080174**			
Diesel	**32.0**	---	25.0	mg/kg dry	1	08/07/15 22:53	NWTPH-Dx	F-18
Oil	ND	---	50.0	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 89 %*	*Limits: 50-150 %*	"	"	"	
EX-C-7Ft (A5H0150-07)			**Matrix: Soil**		**Batch: 5080174**			
Diesel	ND	---	25.0	mg/kg dry	1	08/07/15 23:14	NWTPH-Dx	
Oil	ND	---	50.0	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 68 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SP1(N) COMP (A5H0150-01)			**Matrix: Soil**		**Batch: 5080111**			V-15
Gasoline Range Organics	129	---	6.86	mg/kg dry	50	08/06/15 20:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*114 %*	*Limits: 50-150 %*	"	"	"	
SP2(E) COMP (A5H0150-02)			**Matrix: Soil**		**Batch: 5080111**			V-15
Gasoline Range Organics	47.2	---	6.69	mg/kg dry	50	08/06/15 21:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*103 %*	*Limits: 50-150 %*	"	"	"	
EX-S-7Ft (A5H0150-04)			**Matrix: Soil**		**Batch: 5080159**			V-15
Gasoline Range Organics	596	---	7.02	mg/kg dry	50	08/07/15 21:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*158 %*	*Limits: 50-150 %*	"	"	"	*S-04*
EX-C-7Ft (A5H0150-07)			**Matrix: Soil**		**Batch: 5080159**			V-15
Gasoline Range Organics	236	---	6.95	mg/kg dry	50	08/07/15 22:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*117 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SP1(N) COMP (A5H0150-01)			**Matrix: Soil**		**Batch: 5080111**			**V-15**
Benzene	ND	---	17.2	ug/kg dry	50	08/06/15 20:48	5035/8260B	
Toluene	ND	---	68.6	"	"	"	"	
Ethylbenzene	ND	---	34.3	"	"	"	"	
Xylenes, total	ND	---	103	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 89 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*95 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*106 %*	*Limits: 70-130 %*	"	"	"	
SP2(E) COMP (A5H0150-02)			**Matrix: Soil**		**Batch: 5080111**			**V-15**
Benzene	ND	---	16.7	ug/kg dry	50	08/06/15 21:15	5035/8260B	
Toluene	ND	---	66.9	"	"	"	"	
Ethylbenzene	ND	---	33.4	"	"	"	"	
Xylenes, total	ND	---	100	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 88 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*93 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
EX-S-7Ft (A5H0150-04)			**Matrix: Soil**		**Batch: 5080159**			**V-15**
Acetone	ND	---	1400	ug/kg dry	50	08/07/15 21:42	5035/8260B	
Benzene	ND	---	17.6	"	"	"	"	
Bromobenzene	ND	---	35.1	"	"	"	"	
Bromochloromethane	ND	---	70.2	"	"	"	"	
Bromodichloromethane	ND	---	70.2	"	"	"	"	
Bromoform	ND	---	70.2	"	"	"	"	
Bromomethane	ND	---	702	"	"	"	"	
2-Butanone (MEK)	ND	---	702	"	"	"	"	
n-Butylbenzene	**2790**	---	70.2	"	"	"	"	
sec-Butylbenzene	**1300**	---	70.2	"	"	"	"	
tert-Butylbenzene	ND	---	70.2	"	"	"	"	
Carbon tetrachloride	ND	---	70.2	"	"	"	"	
Chlorobenzene	ND	---	35.1	"	"	"	"	
Chloroethane	ND	---	702	"	"	"	"	
Chloroform	ND	---	70.2	"	"	"	"	
Chloromethane	ND	---	351	"	"	"	"	
2-Chlorotoluene	ND	---	70.2	"	"	"	"	
4-Chlorotoluene	ND	---	70.2	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	---	351	"	"	"	"	
Dibromochloromethane	ND	---	140	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	---	35.1	"	"	"	"	
Dibromomethane	ND	---	70.2	"	"	"	"	
1,2-Dichlorobenzene	ND	---	35.1	"	"	"	"	
1,3-Dichlorobenzene	ND	---	35.1	"	"	"	"	
1,4-Dichlorobenzene	ND	---	35.1	"	"	"	"	
Dichlorodifluoromethane	ND	---	140	"	"	"	"	
1,1-Dichloroethane	ND	---	35.1	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	35.1	"	"	"	"	
1,1-Dichloroethene	ND	---	35.1	"	"	"	"	
cis-1,2-Dichloroethene	ND	---	35.1	"	"	"	"	
trans-1,2-Dichloroethene	ND	---	35.1	"	"	"	"	
1,2-Dichloropropane	ND	---	35.1	"	"	"	"	
1,3-Dichloropropane	ND	---	70.2	"	"	"	"	
2,2-Dichloropropane	ND	---	70.2	"	"	"	"	
1,1-Dichloropropene	ND	---	70.2	"	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
EX-S-7Ft (A5H0150-04)			**Matrix: Soil**		**Batch: 5080159**			**V-15**
cis-1,3-Dichloropropene	ND	---	70.2	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	---	70.2	"	"	"	"	
Ethylbenzene	**160**	---	35.1	"	"	"	"	
Hexachlorobutadiene	ND	---	140	"	"	"	"	Q-31
2-Hexanone	ND	---	702	"	"	"	"	
Isopropylbenzene	**1340**	---	70.2	"	"	"	"	
4-Isopropyltoluene	ND	---	70.2	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	---	702	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	70.2	"	"	"	"	
Methylene chloride	ND	---	351	"	"	"	"	
Naphthalene	**388**	---	140	"	"	"	"	
n-Propylbenzene	**5650**	---	35.1	"	"	"	"	
Styrene	ND	---	70.2	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	---	35.1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	---	35.1	"	"	"	"	
Tetrachloroethene (PCE)	ND	---	35.1	"	"	"	"	
Toluene	ND	---	70.2	"	"	"	"	
1,2,3-Trichlorobenzene	ND	---	351	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	351	"	"	"	"	
1,1,1-Trichloroethane	ND	---	35.1	"	"	"	"	
1,1,2-Trichloroethane	ND	---	35.1	"	"	"	"	
Trichloroethene (TCE)	ND	---	35.1	"	"	"	"	
Trichlorofluoromethane	ND	---	140	"	"	"	"	Q-31
1,2,3-Trichloropropane	ND	---	70.2	"	"	"	"	
1,2,4-Trimethylbenzene	ND	---	70.2	"	"	"	"	
1,3,5-Trimethylbenzene	ND	---	70.2	"	"	"	"	
Vinyl chloride	ND	---	35.1	"	"	"	"	
m,p-Xylene	ND	---	70.2	"	"	"	"	
o-Xylene	ND	---	35.1	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 89 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*96 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*111 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
EX-C-7Ft (A5H0150-07)			**Matrix: Soil**		**Batch: 5080159**			V-15
Acetone	ND	---	1390	ug/kg dry	50	08/07/15 22:37	5035/8260B	
Benzene	ND	---	17.4	"	"	"	"	
Bromobenzene	ND	---	34.7	"	"	"	"	
Bromochloromethane	ND	---	69.5	"	"	"	"	
Bromodichloromethane	ND	---	69.5	"	"	"	"	
Bromoform	ND	---	69.5	"	"	"	"	
Bromomethane	ND	---	695	"	"	"	"	
2-Butanone (MEK)	ND	---	695	"	"	"	"	
n-Butylbenzene	**1030**	---	69.5	"	"	"	"	
sec-Butylbenzene	**636**	---	69.5	"	"	"	"	
tert-Butylbenzene	ND	---	69.5	"	"	"	"	
Carbon tetrachloride	ND	---	69.5	"	"	"	"	
Chlorobenzene	ND	---	34.7	"	"	"	"	
Chloroethane	ND	---	695	"	"	"	"	
Chloroform	ND	---	69.5	"	"	"	"	
Chloromethane	ND	---	347	"	"	"	"	
2-Chlorotoluene	ND	---	69.5	"	"	"	"	
4-Chlorotoluene	ND	---	69.5	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	---	347	"	"	"	"	
Dibromochloromethane	ND	---	139	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	---	34.7	"	"	"	"	
Dibromomethane	ND	---	69.5	"	"	"	"	
1,2-Dichlorobenzene	ND	---	34.7	"	"	"	"	
1,3-Dichlorobenzene	ND	---	34.7	"	"	"	"	
1,4-Dichlorobenzene	ND	---	34.7	"	"	"	"	
Dichlorodifluoromethane	ND	---	139	"	"	"	"	
1,1-Dichloroethane	ND	---	34.7	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	34.7	"	"	"	"	
1,1-Dichloroethene	ND	---	34.7	"	"	"	"	
cis-1,2-Dichloroethene	ND	---	34.7	"	"	"	"	
trans-1,2-Dichloroethene	ND	---	34.7	"	"	"	"	
1,2-Dichloropropane	ND	---	34.7	"	"	"	"	
1,3-Dichloropropane	ND	---	69.5	"	"	"	"	
2,2-Dichloropropane	ND	---	69.5	"	"	"	"	Q-42
1,1-Dichloropropene	ND	---	69.5	"	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
EX-C-7Ft (A5H0150-07)			**Matrix: Soil**		**Batch: 5080159**			**V-15**
cis-1,3-Dichloropropene	ND	---	69.5	ug/kg dry	50	"	5035/8260B	
trans-1,3-Dichloropropene	ND	---	69.5	"	"	"	"	
Ethylbenzene	ND	---	34.7	"	"	"	"	
Hexachlorobutadiene	ND	---	139	"	"	"	"	Q-31
2-Hexanone	ND	---	695	"	"	"	"	
Isopropylbenzene	**458**	---	69.5	"	"	"	"	
4-Isopropyltoluene	ND	---	69.5	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	---	695	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	69.5	"	"	"	"	
Methylene chloride	ND	---	347	"	"	"	"	
Naphthalene	ND	---	139	"	"	"	"	
n-Propylbenzene	**2390**	---	34.7	"	"	"	"	
Styrene	ND	---	69.5	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	---	34.7	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	---	34.7	"	"	"	"	
Tetrachloroethene (PCE)	ND	---	34.7	"	"	"	"	
Toluene	ND	---	69.5	"	"	"	"	
1,2,3-Trichlorobenzene	ND	---	347	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	347	"	"	"	"	
1,1,1-Trichloroethane	ND	---	34.7	"	"	"	"	
1,1,2-Trichloroethane	ND	---	34.7	"	"	"	"	
Trichloroethene (TCE)	ND	---	34.7	"	"	"	"	
Trichlorofluoromethane	ND	---	139	"	"	"	"	Q-31
1,2,3-Trichloropropane	ND	---	69.5	"	"	"	"	
1,2,4-Trimethylbenzene	ND	---	69.5	"	"	"	"	
1,3,5-Trimethylbenzene	ND	---	69.5	"	"	"	"	
Vinyl chloride	ND	---	34.7	"	"	"	"	
m,p-Xylene	ND	---	69.5	"	"	"	"	
o-Xylene	ND	---	34.7	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 89 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*95 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SP1(N) COMP (A5H0150-01)			**Matrix: Soil**		**Batch: 5080138**			
TCLP Extraction	PREP	---		N/A	1	08/06/15 18:18	EPA 1311	
SP2(E) COMP (A5H0150-02)			**Matrix: Soil**		**Batch: 5080138**			
TCLP Extraction	PREP	---		N/A	1	08/06/15 18:18	EPA 1311	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SP1(N) COMP (A5H0150-01)			**Matrix: Soil**					
Batch: 5080165								
Lead	ND	---	0.0500	mg/L	5	08/07/15 14:57	1311/6020A	
SP2(E) COMP (A5H0150-02)			**Matrix: Soil**					
Batch: 5080165								
Lead	ND	---	0.0500	mg/L	5	08/07/15 14:59	1311/6020A	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SP1(N) COMP (A5H0150-01)			**Matrix: Soil**		**Batch: 5080152**			
% Solids	76.0	---	1.00	% by Weight	1	08/07/15 09:08	EPA 8000C	
SP2(E) COMP (A5H0150-02)			**Matrix: Soil**		**Batch: 5080152**			
% Solids	76.2	---	1.00	% by Weight	1	08/07/15 09:08	EPA 8000C	
EX-S-7Ft (A5H0150-04)			**Matrix: Soil**		**Batch: 5080163**			
% Solids	76.1	---	1.00	% by Weight	1	08/10/15 08:27	EPA 8000C	
EX-C-7Ft (A5H0150-07)			**Matrix: Soil**		**Batch: 5080163**			
% Solids	76.0	---	1.00	% by Weight	1	08/10/15 08:27	EPA 8000C	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080174 - EPA 3546 (Fuels)							**Soil**					
Blank (5080174-BLK1)					Prepared: 08/07/15 14:31 Analyzed: 08/07/15 21:32							
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (5080174-BS1)					Prepared: 08/07/15 14:31 Analyzed: 08/07/15 21:52							
NWTPH-Dx												
Diesel	123	---	25.0	mg/kg wet	1	125	---	98	76-115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*		*Dilution: 1x*						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080111 - EPA 5035A							Soil					
Blank (5080111-BLK1)					Prepared: 08/06/15 09:55 Analyzed: 08/06/15 12:10							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*101 %*	*50-150 %*			*"*					
LCS (5080111-BS2)					Prepared: 08/06/15 09:55 Analyzed: 08/06/15 11:43							
NWTPH-Gx (MS)												
Gasoline Range Organics	25.8	---	5.00	mg/kg wet	50	25.0	---	103	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*			*"*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080159 - EPA 5035A							**Soil**					
Blank (5080159-BLK1)				Prepared: 08/07/15 11:17 Analyzed: 08/07/15 13:49								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*102 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*103 %*		*50-150 %*			*"*				
LCS (5080159-BS2)				Prepared: 08/07/15 11:17 Analyzed: 08/07/15 13:22								
NWTPH-Gx (MS)												
Gasoline Range Organics	25.4	---	5.00	mg/kg wet	50	25.0	---	102	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*102 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*104 %*		*50-150 %*			*"*				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080111 - EPA 5035A							**Soil**					
Blank (5080111-BLK1)					Prepared: 08/06/15 09:55 Analyzed: 08/06/15 12:10							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 91 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*96 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*102 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*103 %*		*70-130 %*		"					
LCS (5080111-BS1)					Prepared: 08/06/15 09:55 Analyzed: 08/06/15 11:16							
5035/8260B												
Benzene	994	---	12.5	ug/kg wet	50	1000	---	99	65-135%	---	---	
Toluene	1050	---	50.0	"	"	"	---	105	"	---	---	
Ethylbenzene	1040	---	25.0	"	"	"	---	104	"	---	---	
Xylenes, total	3390	---	75.0	"	"	3000	---	113	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 95 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*95 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*100 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*103 %*		*70-130 %*		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							Soil					
Blank (5080159-BLK1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 13:49							
5035/8260B												
Acetone	ND	---	667	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	8.33	"	"	---	---	---	---	---	---	
Bromobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	---	33.3	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	---	33.3	"	"	---	---	---	---	---	---	
Bromoform	ND	---	33.3	"	"	---	---	---	---	---	---	
Bromomethane	ND	---	333	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	333	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	33.3	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Chloroethane	ND	---	333	"	"	---	---	---	---	---	---	
Chloroform	ND	---	33.3	"	"	---	---	---	---	---	---	
Chloromethane	ND	---	167	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	33.3	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	167	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	---	66.7	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	16.7	"	"	---	---	---	---	---	---	
Dibromomethane	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	66.7	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	16.7	"	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	16.7	"	"	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
Blank (5080159-BLK1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 13:49							
cis-1,2-Dichloroethene	ND	---	16.7	ug/kg wet	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	16.7	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	33.3	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	33.3	"	"	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	66.7	"	"	---	---	---	---	---	---	Q-31
2-Hexanone	ND	---	333	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	33.3	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	333	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	33.3	"	"	---	---	---	---	---	---	
Methylene chloride	ND	---	167	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Styrene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	16.7	"	"	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	167	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	167	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	16.7	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	66.7	"	"	---	---	---	---	---	---	Q-31
1,2,3-Trichloropropane	ND	---	33.3	"	"	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							Soil					
Blank (5080159-BLK1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 13:49							
1,2,4-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	---	16.7	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	---	33.3	"	"	---	---	---	---	---	---	
o-Xylene	ND	---	16.7	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 92 %*		*Limits: 70-130 %*			*Dilution: 1x*				
1,4-Difluorobenzene (Surr)			*97 %*		*70-130 %*			"				
Toluene-d8 (Surr)			*102 %*		*70-130 %*			"				
4-Bromofluorobenzene (Surr)			*102 %*		*70-130 %*			"				
LCS (5080159-BS1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 12:55							
5035/8260B												
Acetone	2100	---	1000	ug/kg wet	50	2000	---	105	65-135%	---	---	
Benzene	991	---	12.5	"	"	1000	---	99	"	---	---	
Bromobenzene	1010	---	25.0	"	"	"	---	101	"	---	---	
Bromochloromethane	1070	---	50.0	"	"	"	---	107	"	---	---	
Bromodichloromethane	874	---	50.0	"	"	"	---	87	"	---	---	
Bromoform	838	---	50.0	"	"	"	---	84	"	---	---	
Bromomethane	1240	---	500	"	"	"	---	124	"	---	---	Q-41
2-Butanone (MEK)	2200	---	500	"	"	2000	---	110	"	---	---	
n-Butylbenzene	944	---	50.0	"	"	1000	---	94	"	---	---	
sec-Butylbenzene	1040	---	50.0	"	"	"	---	104	"	---	---	
tert-Butylbenzene	1040	---	50.0	"	"	"	---	104	"	---	---	
Carbon tetrachloride	944	---	50.0	"	"	"	---	94	"	---	---	
Chlorobenzene	1000	---	25.0	"	"	"	---	100	"	---	---	
Chloroethane	738	---	500	"	"	"	---	74	"	---	---	
Chloroform	888	---	50.0	"	"	"	---	89	"	---	---	
Chloromethane	840	---	250	"	"	"	---	84	"	---	---	
2-Chlorotoluene	1080	---	50.0	"	"	"	---	108	"	---	---	
4-Chlorotoluene	1110	---	50.0	"	"	"	---	111	"	---	---	
1,2-Dibromo-3-chloropropane	858	---	250	"	"	"	---	86	"	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
LCS (5080159-BS1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 12:55							
Dibromochloromethane	908	---	100	ug/kg wet	"	"	---	91	"	---	---	
1,2-Dibromoethane (EDB)	1050	---	25.0	"	"	"	---	105	"	---	---	
Dibromomethane	896	---	50.0	"	"	"	---	90	"	---	---	
1,2-Dichlorobenzene	991	---	25.0	"	"	"	---	99	"	---	---	
1,3-Dichlorobenzene	994	---	25.0	"	"	"	---	99	"	---	---	
1,4-Dichlorobenzene	944	---	25.0	"	"	"	---	94	"	---	---	
Dichlorodifluoromethane	782	---	100	"	"	"	---	78	"	---	---	
1,1-Dichloroethane	997	---	25.0	"	"	"	---	100	"	---	---	
1,2-Dichloroethane (EDC)	868	---	25.0	"	"	"	---	87	"	---	---	
1,1-Dichloroethene	911	---	25.0	"	"	"	---	91	"	---	---	
cis-1,2-Dichloroethene	994	---	25.0	"	"	"	---	99	"	---	---	
trans-1,2-Dichloroethene	979	---	25.0	"	"	"	---	98	"	---	---	
1,2-Dichloropropane	986	---	25.0	"	"	"	---	99	"	---	---	
1,3-Dichloropropane	1030	---	50.0	"	"	"	---	103	"	---	---	
2,2-Dichloropropane	787	---	50.0	"	"	"	---	79	"	---	---	
1,1-Dichloropropene	1070	---	50.0	"	"	"	---	107	"	---	---	
cis-1,3-Dichloropropene	1010	---	50.0	"	"	"	---	101	"	---	---	
trans-1,3-Dichloropropene	993	---	50.0	"	"	"	---	99	"	---	---	
Ethylbenzene	1020	---	25.0	"	"	"	---	102	"	---	---	
Hexachlorobutadiene	637	---	100	"	"	"	---	64	"	---	---	Q-31
2-Hexanone	2480	---	500	"	"	2000	---	124	"	---	---	
Isopropylbenzene	1080	---	50.0	"	"	1000	---	108	"	---	---	
4-Isopropyltoluene	1060	---	50.0	"	"	"	---	106	"	---	---	
4-Methyl-2-pentanone (MiBK)	2550	---	500	"	"	2000	---	128	"	---	---	
Methyl tert-butyl ether (MTBE)	1040	---	50.0	"	"	1000	---	104	"	---	---	
Methylene chloride	992	---	250	"	"	"	---	99	"	---	---	
Naphthalene	1020	---	100	"	"	"	---	102	"	---	---	
n-Propylbenzene	1040	---	25.0	"	"	"	---	104	"	---	---	
Styrene	950	---	50.0	"	"	"	---	95	"	---	---	
1,1,1,2-Tetrachloroethane	990	---	25.0	"	"	"	---	99	"	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
LCS (5080159-BS1)					Prepared: 08/07/15 11:17 Analyzed: 08/07/15 12:55							
1,1,2,2-Tetrachloroethane	1060	---	25.0	"	"	"	---	106	"	---	---	
Tetrachloroethene (PCE)	950	---	25.0	"	"	"	---	95	"	---	---	
Toluene	1030	---	50.0	"	"	"	---	103	"	---	---	
1,2,3-Trichlorobenzene	853	---	250	"	"	"	---	85	"	---	---	
1,2,4-Trichlorobenzene	864	---	250	"	"	"	---	86	"	---	---	
1,1,1-Trichloroethane	868	---	25.0	"	"	"	---	87	"	---	---	
1,1,2-Trichloroethane	1010	---	25.0	"	"	"	---	101	"	---	---	
Trichloroethene (TCE)	917	---	25.0	"	"	"	---	92	"	---	---	
Trichlorofluoromethane	486	---	100	"	"	"	---	49	"	---	---	Q-31
1,2,3-Trichloropropane	995	---	50.0	"	"	"	---	100	"	---	---	
1,2,4-Trimethylbenzene	1120	---	50.0	"	"	"	---	112	"	---	---	
1,3,5-Trimethylbenzene	1140	---	50.0	"	"	"	---	114	"	---	---	
Vinyl chloride	1120	---	25.0	"	"	"	---	112	"	---	---	
m,p-Xylene	2180	---	50.0	"	"	2000	---	109	"	---	---	
o-Xylene	1140	---	25.0	"	"	1000	---	114	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 98 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*95 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*101 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*103 %*		*70-130 %*		"					
Matrix Spike (5080159-MS1)					Prepared: 08/06/15 19:03 Analyzed: 08/07/15 23:04							V-15
QC Source Sample: EX-C-7Ft (A5H0150-07)												
5035/8260B												
Acetone	2990	---	1390	ug/kg dry	50	2780	ND	108	65-135%	---	---	
Benzene	1310	---	17.4	"	"	1390	ND	94	"	---	---	
Bromobenzene	1360	---	34.7	"	"	"	ND	98	"	---	---	
Bromochloromethane	1370	---	69.5	"	"	"	ND	99	"	---	---	
Bromodichloromethane	1200	---	69.5	"	"	"	ND	86	"	---	---	
Bromoform	1100	---	69.5	"	"	"	ND	79	"	---	---	
Bromomethane	1660	---	695	"	"	"	ND	119	"	---	---	Q-41
2-Butanone (MEK)	3420	---	695	"	"	2780	ND	123	"	---	---	
n-Butylbenzene	2250	---	69.5	"	"	1390	1030	88	"	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
Matrix Spike (5080159-MS1)					Prepared: 08/06/15 19:03		Analyzed: 08/07/15 23:04					V-15
QC Source Sample: EX-C-7Ft (A5H0150-07)												
sec-Butylbenzene	2010	---	69.5	ug/kg dry	"	"	636	99	"	---	---	
tert-Butylbenzene	1440	---	69.5	"	"	"	ND	104	"	---	---	
Carbon tetrachloride	1200	---	69.5	"	"	"	ND	86	"	---	---	
Chlorobenzene	1340	---	34.7	"	"	"	ND	96	"	---	---	
Chloroethane	1110	---	695	"	"	"	ND	80	"	---	---	
Chloroform	1160	---	69.5	"	"	"	ND	83	"	---	---	
Chloromethane	990	---	347	"	"	"	ND	71	"	---	---	
2-Chlorotoluene	1500	---	69.5	"	"	"	ND	108	"	---	---	
4-Chlorotoluene	1480	---	69.5	"	"	"	ND	106	"	---	---	
1,2-Dibromo-3-chloropropane	1250	---	347	"	"	"	ND	90	"	---	---	
Dibromochloromethane	1210	---	139	"	"	"	ND	87	"	---	---	
1,2-Dibromoethane (EDB)	1430	---	34.7	"	"	"	ND	103	"	---	---	
Dibromomethane	1210	---	69.5	"	"	"	ND	87	"	---	---	
1,2-Dichlorobenzene	1310	---	34.7	"	"	"	ND	94	"	---	---	
1,3-Dichlorobenzene	1330	---	34.7	"	"	"	ND	96	"	---	---	
1,4-Dichlorobenzene	1240	---	34.7	"	"	"	ND	89	"	---	---	
Dichlorodifluoromethane	993	---	139	"	"	"	ND	71	"	---	---	
1,1-Dichloroethane	1320	---	34.7	"	"	"	ND	95	"	---	---	
1,2-Dichloroethane (EDC)	1090	---	34.7	"	"	"	ND	79	"	---	---	
1,1-Dichloroethene	1170	---	34.7	"	"	"	ND	85	"	---	---	
cis-1,2-Dichloroethene	1270	---	34.7	"	"	"	ND	91	"	---	---	
trans-1,2-Dichloroethene	1240	---	34.7	"	"	"	ND	89	"	---	---	
1,2-Dichloropropane	1320	---	34.7	"	"	"	ND	95	"	---	---	
1,3-Dichloropropane	1400	---	69.5	"	"	"	ND	101	"	---	---	
2,2-Dichloropropane	815	---	69.5	"	"	"	ND	59	"	---	---	Q-01
1,1-Dichloropropene	1430	---	69.5	"	"	"	ND	103	"	---	---	
cis-1,3-Dichloropropene	1370	---	69.5	"	"	"	ND	99	"	---	---	
trans-1,3-Dichloropropene	1240	---	69.5	"	"	"	ND	89	"	---	---	
Ethylbenzene	1370	---	34.7	"	"	"	18.1	98	"	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
Matrix Spike (5080159-MS1)				Prepared: 08/06/15 19:03 Analyzed: 08/07/15 23:04								V-15
QC Source Sample: EX-C-7Ft (A5H0150-07)												
Hexachlorobutadiene	838	---	139	ug/kg dry	"	"	ND	60	"	---	---	Q-31
2-Hexanone	4030	---	695	"	"	2780	ND	145	"	---	---	Q-01
Isopropylbenzene	1910	---	69.5	"	"	1390	458	105	"	---	---	
4-Isopropyltoluene	1470	---	69.5	"	"	"	ND	106	"	---	---	
4-Methyl-2-pentanone (MiBK)	4660	---	695	"	"	2780	ND	168	"	---	---	Q-01
Methyl tert-butyl ether (MTBE)	1360	---	69.5	"	"	1390	ND	98	"	---	---	
Methylene chloride	1330	---	347	"	"	"	ND	95	"	---	---	
Naphthalene	1490	---	139	"	"	"	ND	107	"	---	---	
n-Propylbenzene	3450	---	34.7	"	"	"	2390	76	"	---	---	
Styrene	1330	---	69.5	"	"	"	ND	96	"	---	---	
1,1,1,2-Tetrachloroethane	1290	---	34.7	"	"	"	ND	93	"	---	---	
1,1,2,2-Tetrachloroethane	1490	---	34.7	"	"	"	ND	107	"	---	---	
Tetrachloroethene (PCE)	1310	---	34.7	"	"	"	ND	94	"	---	---	
Toluene	1360	---	69.5	"	"	"	ND	98	"	---	---	
1,2,3-Trichlorobenzene	1090	---	347	"	"	"	ND	79	"	---	---	
1,2,4-Trichlorobenzene	1150	---	347	"	"	"	ND	83	"	---	---	
1,1,1-Trichloroethane	1100	---	34.7	"	"	"	ND	79	"	---	---	
1,1,2-Trichloroethane	1420	---	34.7	"	"	"	ND	102	"	---	---	
Trichloroethene (TCE)	1260	---	34.7	"	"	"	ND	90	"	---	---	
Trichlorofluoromethane	545	---	139	"	"	"	ND	39	"	---	---	Q-31
1,2,3-Trichloropropane	1330	---	69.5	"	"	"	ND	96	"	---	---	
1,2,4-Trimethylbenzene	1520	---	69.5	"	"	"	ND	109	"	---	---	
1,3,5-Trimethylbenzene	1530	---	69.5	"	"	"	ND	110	"	---	---	
Vinyl chloride	1380	---	34.7	"	"	"	ND	99	"	---	---	
m,p-Xylene	2870	---	69.5	"	"	2780	ND	103	"	---	---	
o-Xylene	1560	---	34.7	"	"	1390	ND	112	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 95 %*	*Limits: 70-130 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*96 %*	*70-130 %*			*"*					
Toluene-d8 (Surr)			*100 %*	*70-130 %*			*"*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMIID**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

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 5080159 - EPA 5035A							**Soil**					
Matrix Spike (5080159-MS1)					Prepared: 08/06/15 19:03 Analyzed: 08/07/15 23:04							V-15
QC Source Sample: EX-C-7Ft (A5H0150-07)												
Surr: 4-Bromofluorobenzene (Surr)			*Recovery: 106 %*		*Limits: 70-130 %*		*Dilution: 1x*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080165 - EPA 1311/3015							Soil					
Blank (5080165-BLK1)					Prepared: 08/07/15 10:11 Analyzed: 08/07/15 14:48							
1311/6020A												
Lead	ND	---	0.0500	mg/L	5	---	---	---	---	---	---	TCLP
LCS (5080165-BS1)					Prepared: 08/07/15 10:11 Analyzed: 08/07/15 14:51							
1311/6020A												
Lead	2.43	---	0.0500	mg/L	5	2.50	---	97	80-120%	---	---	TCLP
Matrix Spike (5080165-MS1)					Prepared: 08/07/15 10:11 Analyzed: 08/07/15 15:02							
QC Source Sample: SP2(E) COMP (A5H0150-02)												
1311/6020A												
Lead	2.40	---	0.0500	mg/L	5	2.50	ND	96	50-150%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: Fred Meyer Hazel Dell FMHD Project Number: 86IM09691-0 Project Manager: Kurt Harrington	Reported: 08/12/15 16:14

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 5080152 - Total Solids (Dry Weight)								Soil				
Duplicate (5080152-DUP1)					Prepared: 08/07/15 07:37 Analyzed: 08/07/15 09:08							
QC Source Sample: SP2(E) COMP (A5H0150-02)												
EPA 8000C												
% Solids	76.8	---	1.00	% by Weight	1	---	76.2	---	---	0.8	10%	

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

Batch 5080163 - Total Solids (Dry Weight) Soil

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080174							
A5H0150-04	Soil	NWTPH-Dx	08/06/15 12:55	08/07/15 14:31	11.18g/5mL	10g/5mL	0.89
A5H0150-07	Soil	NWTPH-Dx	08/06/15 12:50	08/07/15 14:31	10.55g/5mL	10g/5mL	0.95

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080111							
A5H0150-01	Soil	NWTPH-Gx (MS)	08/06/15 12:25	08/06/15 17:32	12.456g/10mL	10g/10mL	0.80
A5H0150-02	Soil	NWTPH-Gx (MS)	08/06/15 13:10	08/06/15 17:32	12.798g/10mL	10g/10mL	0.78
Batch: 5080159							
A5H0150-04	Soil	NWTPH-Gx (MS)	08/06/15 12:55	08/06/15 19:03	12.05g/10mL	10g/10mL	0.83
A5H0150-07	Soil	NWTPH-Gx (MS)	08/06/15 12:50	08/06/15 19:03	12.259g/10mL	10g/10mL	0.82

BTEX Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080111							
A5H0150-01	Soil	5035/8260B	08/06/15 12:25	08/06/15 17:32	12.456g/10mL	10g/10mL	0.80
A5H0150-02	Soil	5035/8260B	08/06/15 13:10	08/06/15 17:32	12.798g/10mL	10g/10mL	0.78

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080159							
A5H0150-04	Soil	5035/8260B	08/06/15 12:55	08/06/15 19:03	12.05g/10mL	10g/10mL	0.83
A5H0150-07	Soil	5035/8260B	08/06/15 12:50	08/06/15 19:03	12.259g/10mL	10g/10mL	0.82

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080138							
A5H0150-01	Soil	EPA 1311	08/06/15 12:25	08/06/15 18:18	100g/2000mL	100g/2000mL	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

SAMPLE PREPARATION INFORMATION

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5H0150-02	Soil	EPA 1311	08/06/15 13:10	08/06/15 18:18	100g/2000mL	100g/2000mL	NA

TCLP Metals by EPA 6020 (ICPMS)

Prep: EPA 1311/3015

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080165							
A5H0150-01	Soil	1311/6020A	08/06/15 12:25	08/07/15 10:11	5mL/50mL	5mL/50mL	1.00
A5H0150-02	Soil	1311/6020A	08/06/15 13:10	08/07/15 10:11	5mL/50mL	5mL/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080152							
A5H0150-01	Soil	EPA 8000C	08/06/15 12:25	08/07/15 07:37	1N/A/1N/A	1N/A/1N/A	NA
A5H0150-02	Soil	EPA 8000C	08/06/15 13:10	08/07/15 07:37	1N/A/1N/A	1N/A/1N/A	NA
Batch: 5080163							
A5H0150-04	Soil	EPA 8000C	08/06/15 12:55	08/07/15 09:57	1N/A/1N/A	1N/A/1N/A	NA
A5H0150-07	Soil	EPA 8000C	08/06/15 12:50	08/07/15 09:57	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

Notes and Definitions

Qualifiers:

F-18	Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
S-04	Surrogate recovery is outside of established control limits due to a sample matrix effect.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 5080138.
V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory 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.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

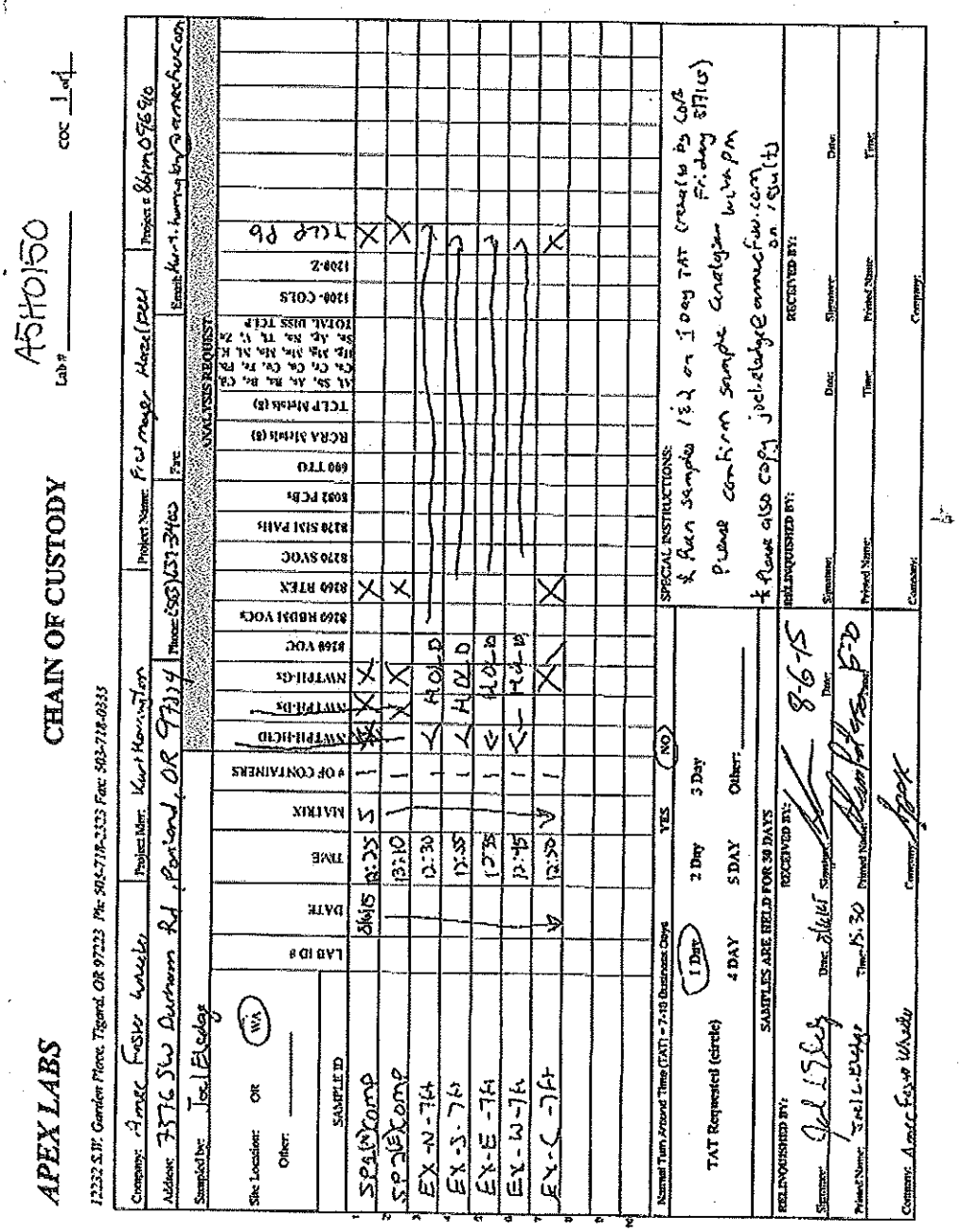
AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

*** Used to indicate a possible discrepancy 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).

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/12/15 16:14

APEX LABS COOLER RECEIPT FORM

Client: AMEC Element WO#: AS

Project/Project #: Fred Meyer Hazel Dell / 86IM096910

Delivery Info:

Date/Time Received: 8-6-15 @ 15:30 By: AAP

Delivered by: Apex Courier ~~Client~~ FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: AAP : 8-6-15 @ 15:55

Chain of Custody Included? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	4.6						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)							
Condition:	good						

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dot applied to out of temperature samples Yes/No/NA

Samples Inspection: Inspected by: (SR) : 8/6/15 @ 1610

All Samples Intact? Yes No Comments:

Bottle Labels/COCs agree? Yes No Comments:

Containers Appropriate for Analysis? Yes No Comments:

Do VOA Vials have Visible Headspace? Yes No NA

Comments

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments:

Additional Information:

Labeled by: KF Cooler Inspected by: (SR) See Project Contact Form: (Y)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

Thursday, August 20, 2015

Joel Eledge
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: FM Hazel Dell Fuel Center / 861M096910

Enclosed are the results of analyses for work order A5H0318, which was received by the laboratory on 8/12/2015 at 2:30:00PM.

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

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-2-9FT	A5H0318-01	Soil	08/12/15 09:15	08/12/15 14:30
TP-2-6.5FT	A5H0318-02	Soil	08/12/15 09:18	08/12/15 14:30
EX3-SW-7FT	A5H0318-03	Soil	08/12/15 09:12	08/12/15 14:30
EX3-CE-7FT	A5H0318-04	Soil	08/12/15 09:00	08/12/15 14:30
EX3-SE-7FT	A5H0318-05	Soil	08/12/15 09:10	08/12/15 14:30
TP2-SE-4FT	A5H0318-06	Soil	08/12/15 11:20	08/12/15 14:30
TP-7-6FT	A5H0318-07	Soil	08/12/15 12:05	08/12/15 14:30
TP-1-9FT	A5H0318-08	Soil	08/12/15 08:40	08/12/15 14:30

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
TP-2-9FT (A5H0318-01)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	ND	---	7.59	mg/kg dry	50	08/13/15 14:05	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*94 %*	*Limits: 50-150 %*	"	"	"	
TP-2-6.5FT (A5H0318-02)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	**656**	---	28.3	mg/kg dry	200	08/13/15 14:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*115 %*	*Limits: 50-150 %*	"	"	"	
EX3-SW-7FT (A5H0318-03)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	ND	---	6.46	mg/kg dry	50	08/13/15 15:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 103 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*92 %*	*Limits: 50-150 %*	"	"	"	
EX3-CE-7FT (A5H0318-04)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	ND	---	6.39	mg/kg dry	50	08/13/15 15:52	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*92 %*	*Limits: 50-150 %*	"	"	"	
EX3-SE-7FT (A5H0318-05)			**Matrix: Soil**		**Batch: 5080288**			V-15
Gasoline Range Organics	**83.6**	---	7.26	mg/kg dry	50	08/12/15 19:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 105 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*96 %*	*Limits: 50-150 %*	"	"	"	
TP2-SE-4FT (A5H0318-06)			**Matrix: Soil**		**Batch: 5080288**			V-15
Gasoline Range Organics	**90.0**	---	7.03	mg/kg dry	50	08/12/15 20:26	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 103 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*100 %*	*Limits: 50-150 %*	"	"	"	
TP-7-6FT (A5H0318-07)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	**1510**	---	23.9	mg/kg dry	200	08/13/15 16:19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*114 %*	*Limits: 50-150 %*	"	"	"	
TP-1-9FT (A5H0318-08)			**Matrix: Soil**		**Batch: 5080328**			V-15
Gasoline Range Organics	ND	---	7.30	mg/kg dry	50	08/13/15 16:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*93 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
TP-7-6FT (A5H0318-07)			**Matrix: Soil**		**Batch: 5080328**			**V-15**
Benzene	**222**	---	59.7	ug/kg dry	200	08/13/15 16:19	5035/8260B	
Toluene	**2590**	---	239	"	"	"	"	
Ethylbenzene	**7130**	---	119	"	"	"	"	
Xylenes, total	**33500**	---	358	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 95 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*96 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
TP-2-9FT (A5H0318-01)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	72.3	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	
TP-2-6.5FT (A5H0318-02)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	76.6	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	
EX3-SW-7FT (A5H0318-03)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	80.6	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	
EX3-CE-7FT (A5H0318-04)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	78.9	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	
EX3-SE-7FT (A5H0318-05)			**Matrix: Soil**		**Batch: 5080289**			
% Solids	75.8	---	1.00	% by Weight	1	08/13/15 09:05	EPA 8000C	
TP2-SE-4FT (A5H0318-06)			**Matrix: Soil**		**Batch: 5080289**			
% Solids	78.5	---	1.00	% by Weight	1	08/13/15 09:05	EPA 8000C	
TP-7-6FT (A5H0318-07)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	86.3	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	
TP-1-9FT (A5H0318-08)			**Matrix: Soil**		**Batch: 5080343**			
% Solids	74.7	---	1.00	% by Weight	1	08/14/15 08:34	EPA 8000C	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080288 - EPA 5035A							Soil					
Blank (5080288-BLK1)					Prepared: 08/12/15 10:06 Analyzed: 08/12/15 12:12							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*98 %*		*50-150 %*			*"*					
LCS (5080288-BS2)					Prepared: 08/12/15 10:06 Analyzed: 08/12/15 11:47							
NWTPH-Gx (MS)												
Gasoline Range Organics	23.1	---	5.00	mg/kg wet	50	25.0	---	92	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*99 %*		*50-150 %*			*"*					
Batch 5080328 - EPA 5035A							Soil					
Blank (5080328-BLK1)					Prepared: 08/13/15 08:00 Analyzed: 08/13/15 11:52							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*96 %*		*50-150 %*			*"*					
LCS (5080328-BS2)					Prepared: 08/13/15 08:00 Analyzed: 08/13/15 11:27							
NWTPH-Gx (MS)												
Gasoline Range Organics	24.6	---	5.00	mg/kg wet	50	25.0	---	98	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*98 %*		*50-150 %*			*"*					
Duplicate (5080328-DUP1)					Prepared: 08/12/15 18:02 Analyzed: 08/13/15 14:32							V-15
QC Source Sample: TP-2-9FT (A5H0318-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	7.34	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*94 %*		*50-150 %*			*"*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **FM Hazel Dell Fuel Center**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080328 - EPA 5035A							**Soil**					
Blank (5080328-BLK1)					Prepared: 08/13/15 08:00 Analyzed: 08/13/15 11:52							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 100 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*102 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*103 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*106 %*		*70-130 %*		"					
LCS (5080328-BS1)					Prepared: 08/13/15 08:00 Analyzed: 08/13/15 11:02							
5035/8260B												
Benzene	948	---	12.5	ug/kg wet	50	1000	---	95	65-135%	---	---	
Toluene	980	---	50.0	"	"	"	---	98	"	---	---	
Ethylbenzene	941	---	25.0	"	"	"	---	94	"	---	---	
Xylenes, total	2940	---	75.0	"	"	3000	---	98	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 102 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*99 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*104 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*100 %*		*70-130 %*		"					
Duplicate (5080328-DUP1)					Prepared: 08/12/15 18:02 Analyzed: 08/13/15 14:32							V-15
QC Source Sample: TP-2-9FT (A5H0318-01)												
5035/8260B												
Benzene	ND	---	18.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	73.4	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	36.7	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	110	"	"	---	ND	---	---	---	30%	
Surr: Dibromofluoromethane (Surr)			*Recovery: 97 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*100 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*98 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*101 %*		*70-130 %*		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

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 5080289 - Total Solids (Dry Weight)								Soil				
Duplicate (5080289-DUP7)					Prepared: 08/12/15 18:17 Analyzed: 08/13/15 09:05							
QC Source Sample: TP2-SE-4FT (A5H0318-06)												
EPA 8000C												
% Solids	**78.4**	---	1.00	% by Weight	1	---	78.5	---	---	0.1	10%	

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

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080343 - Total Solids (Dry Weight)								Soil				
Duplicate (5080343-DUP1)					Prepared: 08/13/15 11:14 Analyzed: 08/14/15 08:34							
QC Source Sample: TP-1-9FT (A5H0318-08)												
EPA 8000C												
% Solids	**74.3**	---	1.00	% by Weight	1	---	74.7	---	---	0.5	10%	

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **FM Hazel Dell Fuel Center**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080288							
A5H0318-05	Soil	NWTPH-Gx (MS)	08/12/15 09:10	08/12/15 18:02	11.651g/10mL	10g/10mL	0.86
A5H0318-06	Soil	NWTPH-Gx (MS)	08/12/15 11:20	08/12/15 18:02	11.252g/10mL	10g/10mL	0.89
Batch: 5080328							
A5H0318-01	Soil	NWTPH-Gx (MS)	08/12/15 09:15	08/12/15 18:02	12.177g/10mL	10g/10mL	0.82
A5H0318-02	Soil	NWTPH-Gx (MS)	08/12/15 09:18	08/12/15 18:02	11.747g/10mL	10g/10mL	0.85
A5H0318-03	Soil	NWTPH-Gx (MS)	08/12/15 09:12	08/12/15 18:02	11.811g/10mL	10g/10mL	0.85
A5H0318-04	Soil	NWTPH-Gx (MS)	08/12/15 09:00	08/12/15 18:02	12.541g/10mL	10g/10mL	0.80
A5H0318-07	Soil	NWTPH-Gx (MS)	08/12/15 12:05	08/12/15 18:02	11.191g/10mL	10g/10mL	0.89
A5H0318-08	Soil	NWTPH-Gx (MS)	08/12/15 08:40	08/12/15 18:02	11.941g/10mL	10g/10mL	0.84

BTEX Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080328							
A5H0318-07	Soil	5035/8260B	08/12/15 12:05	08/12/15 18:02	11.191g/10mL	10g/10mL	0.89

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080289							
A5H0318-05	Soil	EPA 8000C	08/12/15 09:10	08/12/15 18:17	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-06	Soil	EPA 8000C	08/12/15 11:20	08/12/15 18:17	1N/A/1N/A	1N/A/1N/A	NA
Batch: 5080343							
A5H0318-01	Soil	EPA 8000C	08/12/15 09:15	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-02	Soil	EPA 8000C	08/12/15 09:18	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-03	Soil	EPA 8000C	08/12/15 09:12	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-04	Soil	EPA 8000C	08/12/15 09:00	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-07	Soil	EPA 8000C	08/12/15 12:05	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA
A5H0318-08	Soil	EPA 8000C	08/12/15 08:40	08/13/15 11:14	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

Notes and Definitions

Qualifiers:

V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory 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.
---	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 discrepancy 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).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

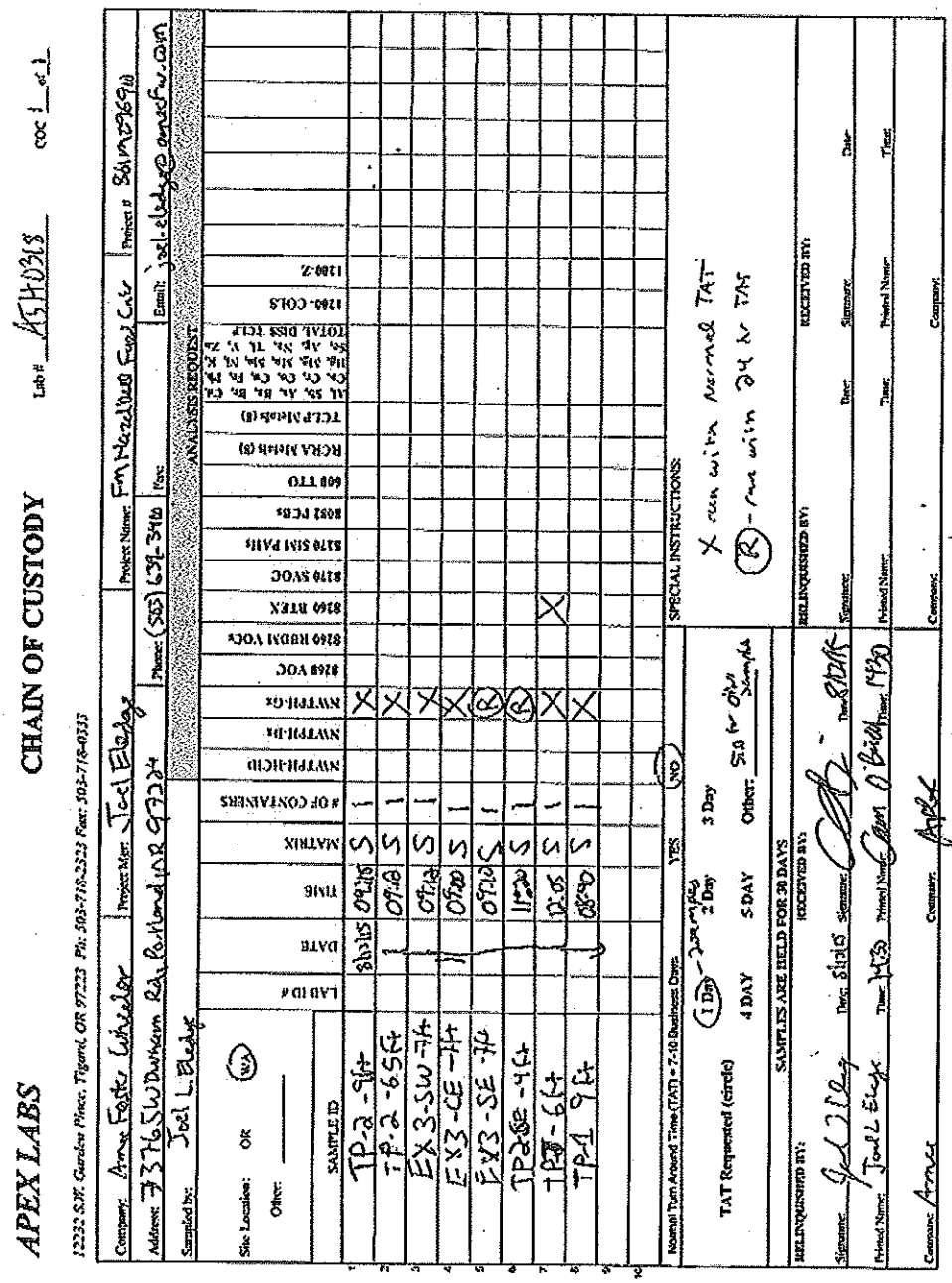
Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	**Project:** FM Hazel Dell Fuel Center **Project Number:** 861M096910 **Project Manager:** Joel Eledge	**Reported:** 08/20/15 16:56



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: FM Hazel Dell Fuel Center	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Joel Eledge	08/20/15 16:56

APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: AS 170318

Project/Project #: FM Hazeldell Fuel Cntr / 861M096910

Delivery Info:

Date/Time Received: 8/12/15 @ 1430 By: CM

Delivered by: Apex Courier ___ Client X FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Inspected by: CM : 8/12/15 @ 1440

Chain of Custody Included? Yes X No ___

Signed/Dated by Client? Yes X No ___

Signed/Dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	3.6						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)							
Condition:							

Cooler out of temp? (Y/N) Possible reason why: ___

If some coolers are in temp and some out, were green dot applied to out of temperature samples Yes/No/NA

Samples Inspection: Inspected by: KMS : 8/12/15 @ 17:23

All Samples Intact? Yes X No ___ Comments: ___

Bottle Labels/COCs agree? Yes X No ___ Comments: ___

Containers Appropriate for Analysis? Yes X No ___ Comments: ___

Do VOA Vials have Visible Headspace? Yes ___ No ___ NA X

Comments ___

Water Samples: pH Checked and Appropriate (except VOAs): Yes ___ No ___ NA X

Comments: ___

Additional Information: ___

Labeled by: VM Cooler Inspected by: KMS See Project Contact Form: Y

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

Wednesday, September 2, 2015

Kurt Harrington
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: Fred Meyer-Hazeldell / 861M09691-0

Enclosed are the results of analyses for work order A5H0599, which was received by the laboratory on 8/21/2015 at 4:40:00PM.

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

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV4-195E-35N-6ft	A5H0599-01	Soil	08/21/15 11:45	08/21/15 16:40

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**		**Batch: 5080606**			
Diesel	**51.8**	---	25.0	mg/kg dry	1	08/22/15 00:17	NWTPH-Dx	A-01
Oil	**100**	---	50.0	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 101 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**		**Batch: 5080573**			**V-15**
Gasoline Range Organics	658	---	58.3	mg/kg dry	500	08/21/15 21:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 88 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*102 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

RBCA Compounds (BTEX+) by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**		**Batch: 5080573**			**V-15**
Benzene	**326**	---	146	ug/kg dry	500	08/21/15 21:06	5035/8260B	
Toluene	ND	---	583	"	"	"	"	
Ethylbenzene	**629**	---	291	"	"	"	"	
Xylenes, total	ND	---	874	"	"	"	"	
Naphthalene	**2450**	---	1170	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	583	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 94 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**		**Batch: 5080778**			
Acenaphthene	ND	---	28.4	ug/kg dry	1	08/28/15 17:52	EPA 8270D (SIM)	R-02
Acenaphthylene	ND	---	17.0	"	"	"	"	R-02
Anthracene	**18.4**	---	11.4	"	"	"	"	
Benz(a)anthracene	**17.1**	---	11.4	"	"	"	"	
Benzo(a)pyrene	**39.1**	---	11.4	"	"	"	"	
Benzo(b)fluoranthene	**35.8**	---	11.4	"	"	"	"	M-02
Benzo(k)fluoranthene	**13.4**	---	11.4	"	"	"	"	M-02
Benzo(g,h,i)perylene	**35.0**	---	11.4	"	"	"	"	
Chrysene	**26.3**	---	11.4	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.4	"	"	"	"	
Dibenzofuran	ND	---	11.4	"	"	"	"	
Fluoranthene	**23.5**	---	11.4	"	"	"	"	
Fluorene	**50.8**	---	11.4	"	"	"	"	
Indeno(1,2,3-cd)pyrene	**31.2**	---	11.4	"	"	"	"	
1-Methylnaphthalene	**2110**	---	11.4	"	"	"	"	
2-Methylnaphthalene	**4210**	---	11.4	"	"	"	"	
Naphthalene	**681**	---	11.4	"	"	"	"	
Phenanthrene	**73.4**	---	11.4	"	"	"	"	
Pyrene	**30.4**	---	11.4	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 79 %*	*Limits: 44-115 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*82 %*	*Limits: 54-127 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**					
Batch: 5080618								
Lead	12.8	---	0.249	mg/kg dry	10	08/24/15 13:32	EPA 6020A	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV4-195E-35N-6ft (A5H0599-01)			**Matrix: Soil**		**Batch: 5080580**			
% Solids	84.4	---	1.00	% by Weight	1	08/24/15 10:05	EPA 8000C	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080606 - EPA 3546 (Fuels)							Soil					
Blank (5080606-BLK1)					Prepared: 08/21/15 17:33 Analyzed: 08/21/15 21:55							
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 111 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (5080606-BS1)					Prepared: 08/21/15 17:33 Analyzed: 08/21/15 22:15							
NWTPH-Dx												
Diesel	128	---	25.0	mg/kg wet	1	125	---	102	76-115%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 108 %*	*Limits: 50-150 %*			*Dilution: 1x*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080573 - EPA 5035A							**Soil**					
Blank (5080573-BLK1)					Prepared: 08/21/15 08:00 Analyzed: 08/21/15 11:43							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 91 %*		*Limits: 50-150 %*				*Dilution: 1x*			
1,4-Difluorobenzene (Sur)			*92 %*		*50-150 %*				*"*			
LCS (5080573-BS2)					Prepared: 08/21/15 08:00 Analyzed: 08/21/15 11:18							
NWTPH-Gx (MS)												
Gasoline Range Organics	22.6	---	5.00	mg/kg wet	50	25.0	---	90	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*		*Limits: 50-150 %*				*Dilution: 1x*			
1,4-Difluorobenzene (Sur)			*94 %*		*50-150 %*				*"*			

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

QUALITY CONTROL (QC) SAMPLE RESULTS

RBCA Compounds (BTEX+) by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080573 - EPA 5035A									Soil			
Blank (5080573-BLK1)					Prepared: 08/21/15 08:00 Analyzed: 08/21/15 11:43							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	33.3	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	16.7	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	16.7	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 96 %*	*Limits: 70-130 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*99 %*	*70-130 %*			"					
Toluene-d8 (Surr)			*104 %*	*70-130 %*			"					
4-Bromofluorobenzene (Surr)			*102 %*	*70-130 %*			"					
LCS (5080573-BS1)					Prepared: 08/21/15 08:00 Analyzed: 08/21/15 10:53							
5035/8260B												
Benzene	972	---	12.5	ug/kg wet	50	1000	---	97	65-135%	---	---	
Toluene	988	---	50.0	"	"	"	---	99	"	---	---	
Ethylbenzene	966	---	25.0	"	"	"	---	97	"	---	---	
Xylenes, total	3000	---	75.0	"	"	3000	---	100	"	---	---	
Naphthalene	1090	---	100	"	"	1000	---	109	"	---	---	
Methyl tert-butyl ether (MTBE)	962	---	50.0	"	"	"	---	96	"	---	---	
Isopropylbenzene	1000	---	50.0	"	"	"	---	100	"	---	---	
n-Propylbenzene	971	---	25.0	"	"	"	---	97	"	---	---	
1,2,4-Trimethylbenzene	1020	---	50.0	"	"	"	---	102	"	---	---	
1,3,5-Trimethylbenzene	992	---	50.0	"	"	"	---	99	"	---	---	
1,2-Dibromoethane (EDB)	945	---	25.0	"	"	"	---	94	"	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

QUALITY CONTROL (QC) SAMPLE RESULTS

RBCA Compounds (BTEX+) by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080573 - EPA 5035A							Soil					
LCS (5080573-BS1)					Prepared: 08/21/15 08:00 Analyzed: 08/21/15 10:53							
1,2-Dichloroethane (EDC)	892	---	25.0	ug/kg wet	"	"	---	89	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 99 %*		*Limits: 70-130 %*			*Dilution: 1x*				
1,4-Difluorobenzene (Surr)			*98 %*		*70-130 %*			*"*				
Toluene-d8 (Surr)			*101 %*		*70-130 %*			*"*				
4-Bromofluorobenzene (Surr)			*99 %*		*70-130 %*			*"*				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

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 5080778 - EPA 3546							Soil					
Blank (5080778-BLK1)					Prepared: 08/28/15 11:56 Analyzed: 08/28/15 14:29							
EPA 8270D (SIM)												
Acenaphthene	ND	---	9.09	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	9.09	"	"	---	---	---	---	---	---	
Anthracene	ND	---	9.09	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	9.09	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	9.09	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	9.09	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	9.09	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	9.09	"	"	---	---	---	---	---	---	
Chrysene	ND	---	9.09	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	9.09	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	---	9.09	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	9.09	"	"	---	---	---	---	---	---	
Fluorene	ND	---	9.09	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	9.09	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	9.09	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	9.09	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	9.09	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	9.09	"	"	---	---	---	---	---	---	
Pyrene	ND	---	9.09	"	"	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 86 %*	*Limits: 44-115 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*86 %*	*54-127 %*			"					
LCS (5080778-BS1)					Prepared: 08/28/15 11:56 Analyzed: 08/28/15 14:57							
EPA 8270D (SIM)												
Acenaphthene	749	---	10.0	ug/kg wet	1	800	---	94	40-122%	---	---	
Acenaphthylene	748	---	10.0	"	"	"	---	93	32-132%	---	---	
Anthracene	822	---	10.0	"	"	"	---	103	47-123%	---	---	
Benz(a)anthracene	758	---	10.0	"	"	"	---	95	49-126%	---	---	
Benzo(a)pyrene	849	---	10.0	"	"	"	---	106	45-129%	---	---	
Benzo(b)fluoranthene	753	---	10.0	"	"	"	---	94	45-132%	---	---	
Benzo(k)fluoranthene	807	---	10.0	"	"	"	---	101	47-132%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

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 5080778 - EPA 3546							**Soil**					
LCS (5080778-BS1)					Prepared: 08/28/15 11:56 Analyzed: 08/28/15 14:57							
Benzo(g,h,i)perylene	702	---	10.0	"	"	"	---	88	43-134%	---	---	
Chrysene	772	---	10.0	"	"	"	---	96	50-124%	---	---	
Dibenz(a,h)anthracene	833	---	10.0	"	"	"	---	104	45-134%	---	---	
Dibenzofuran	798	---	10.0	"	"	"	---	100	44-120%	---	---	
Fluoranthene	799	---	10.0	"	"	"	---	100	50-127%	---	---	
Fluorene	775	---	10.0	"	"	"	---	97	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	733	---	10.0	"	"	"	---	92	45-133%	---	---	
1-Methylnaphthalene	691	---	10.0	"	"	"	---	86	40-120%	---	---	
2-Methylnaphthalene	766	---	10.0	"	"	"	---	96	38-122%	---	---	
Naphthalene	715	---	10.0	"	"	"	---	89	35-123%	---	---	
Phenanthrene	776	---	10.0	"	"	"	---	97	50-121%	---	---	
Pyrene	808	---	10.0	"	"	"	---	101	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 84 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*85 %*		*54-127 %*				*"*			

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

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 5080618 - EPA 3051A							Soil					
Blank (5080618-BLK1)					Prepared: 08/24/15 08:51 Analyzed: 08/24/15 13:27							
EPA 6020A												
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (5080618-BS1)					Prepared: 08/24/15 08:51 Analyzed: 08/24/15 13:29							
EPA 6020A												
Lead	52.8	---	0.200	mg/kg wet	10	50.0	---	106	80-120%	---	---	
Duplicate (5080618-DUP1)					Prepared: 08/24/15 08:51 Analyzed: 08/24/15 13:35							
QC Source Sample: SV4-195E-35N-6ft (A5H0599-01)												
EPA 6020A												
Lead	10.9	---	0.252	mg/kg dry	10	---	12.8	---	---	17	40%	
Matrix Spike (5080618-MS1)					Prepared: 08/24/15 08:51 Analyzed: 08/24/15 13:38							
QC Source Sample: SV4-195E-35N-6ft (A5H0599-01)												
EPA 6020A												
Lead	75.7	---	0.250	mg/kg dry	10	62.7	12.8	100	75-125%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

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 5080580 - Total Solids (Dry Weight)							**Soil**					

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

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080606							
A5H0599-01	Soil	NWTPH-Dx	08/21/15 11:45	08/21/15 17:33	11.39g/5mL	10g/5mL	0.88

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080573							
A5H0599-01	Soil	NWTPH-Gx (MS)	08/21/15 11:45	08/21/15 17:28	12.086g/10mL	10g/10mL	0.83

RBCA Compounds (BTEX+) by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080573							
A5H0599-01	Soil	5035/8260B	08/21/15 11:45	08/21/15 17:28	12.086g/10mL	10g/10mL	0.83

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: 5080778							
A5H0599-01	Soil	EPA 8270D (SIM)	08/21/15 11:45	08/28/15 14:31	10.43g/5mL	10g/5mL	0.96

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080618							
A5H0599-01	Soil	EPA 6020A	08/21/15 11:45	08/24/15 08:51	0.475g/50mL	0.5g/50mL	1.05

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080580							
A5H0599-01	Soil	EPA 8000C	08/21/15 11:45	08/21/15 17:55	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer-Hazeldell	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/02/15 12:32

Notes and Definitions

Qualifiers:

A-01	Result for diesel is due to a gasoline range product. Diesel result is for carbon range C12-C18.
M-02	Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory 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.
---	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 discrepancy 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).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

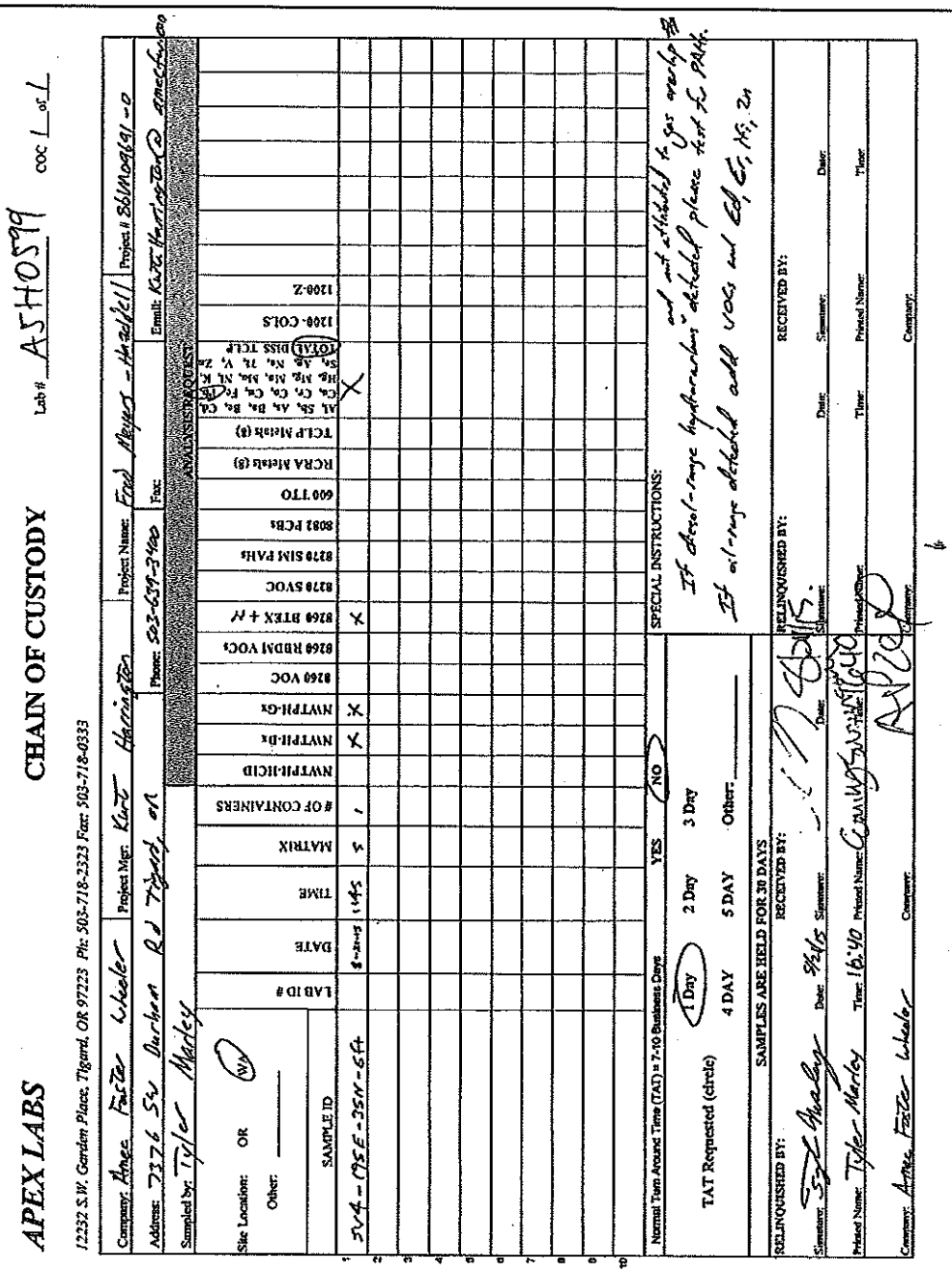
Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: **Fred Meyer-Hazeldell** Project Number: 861M09691-0 Project Manager: Kurt Harrington	**Reported:** 09/02/15 12:32



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

Monday, August 31, 2015

Kurt Harrington
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: Fred Meyer Hazel Dell FMHD / 86IM09691-0

Enclosed are the results of analyses for work order A5H0681, which was received by the laboratory on 8/26/2015 at 12:33:00PM.

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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV6-200E-36N-10'	A5H0681-01	Soil	08/24/15 09:20	08/26/15 12:33
SV5-200E-36N-13'	A5H0681-02	Soil	08/24/15 09:57	08/26/15 12:33

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV6-200E-36N-10' (A5H0681-01)			**Matrix: Soil**		**Batch: 5080712**			
Diesel	**51.1**	---	25.0	mg/kg dry	1	08/27/15 01:53	NWTPH-Dx	A-01
Oil	**102**	---	50.0	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 118 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV6-200E-36N-10' (A5H0681-01)			**Matrix: Soil**		**Batch: 5080686**			**V-16**
Gasoline Range Organics	**1550**	---	54.9	mg/kg dry	500	08/26/15 17:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 104 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*113 %*	*Limits: 50-150 %*	"	"	"	
SV5-200E-36N-13' (A5H0681-02RE1)			**Matrix: Soil**		**Batch: 5080728**			**V-16**
Gasoline Range Organics	**12.9**	---	7.24	mg/kg dry	50	08/27/15 12:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*101 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV6-200E-36N-10' (A5H0681-01)			**Matrix: Soil**		**Batch: 5080686**			V-16
Benzene	**845**	---	137	ug/kg dry	500	08/26/15 17:10	5035/8260B	
Toluene	**697**	---	549	"	"	"	"	
Ethylbenzene	**9420**	---	274	"	"	"	"	
Xylenes, total	**19000**	---	823	"	"	"	"	
Naphthalene	**7330**	---	549	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 94 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*97 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
SV5-200E-36N-13' (A5H0681-02RE1)			**Matrix: Soil**		**Batch: 5080728**			V-16
Benzene	**31.9**	---	18.1	ug/kg dry	50	08/27/15 12:55	5035/8260B	
Toluene	ND	---	72.4	"	"	"	"	
Ethylbenzene	ND	---	36.2	"	"	"	"	
Xylenes, total	ND	---	109	"	"	"	"	
Naphthalene	ND	---	72.4	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 95 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*107 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV6-200E-36N-10' (A5H0681-01)			**Matrix: Soil**		**Batch: 5080687**			
% Solids	88.1	---	1.00	% by Weight	1	08/27/15 09:32	EPA 8000C	
SV5-200E-36N-13' (A5H0681-02)			**Matrix: Soil**		**Batch: 5080687**			
% Solids	72.9	---	1.00	% by Weight	1	08/27/15 09:32	EPA 8000C	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080712 - EPA 3546 (Fuels)							Soil					
Blank (5080712-BLK1)					Prepared: 08/26/15 14:50 Analyzed: 08/26/15 22:08							
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 120 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (5080712-BS1)					Prepared: 08/26/15 14:50 Analyzed: 08/26/15 22:28							
NWTPH-Dx												
Diesel	115	---	25.0	mg/kg wet	1	125	---	92	76-115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 127 %*		*Limits: 50-150 %*		*Dilution: 1x*						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080686 - EPA 5035A							Soil					
Blank (5080686-BLK1)					Prepared: 08/26/15 09:33 Analyzed: 08/26/15 11:36							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 93 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*94 %*	*50-150 %*			*"*					
LCS (5080686-BS2)					Prepared: 08/26/15 09:33 Analyzed: 08/26/15 11:11							
NWTPH-Gx (MS)												
Gasoline Range Organics	20.2	---	5.00	mg/kg wet	50	25.0	---	81	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 90 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*95 %*	*50-150 %*			*"*					

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080728 - EPA 5035A							Soil					
Blank (5080728-BLK1)					Prepared: 08/27/15 09:38 Analyzed: 08/27/15 11:41							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*		*Limits: 50-150 %*				*Dilution: 1x*			
1,4-Difluorobenzene (Sur)			*98 %*		*50-150 %*				*"*			
LCS (5080728-BS2)					Prepared: 08/27/15 09:38 Analyzed: 08/27/15 11:17							
NWTPH-Gx (MS)												
Gasoline Range Organics	23.0	---	5.00	mg/kg wet	50	25.0	---	92	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*		*Limits: 50-150 %*				*Dilution: 1x*			
1,4-Difluorobenzene (Sur)			*98 %*		*50-150 %*				*"*			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080686 - EPA 5035A							**Soil**					
Blank (5080686-BLK1)					Prepared: 08/26/15 09:33 Analyzed: 08/26/15 11:36							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	33.3	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 98 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*101 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*103 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*103 %*		*70-130 %*		"					
LCS (5080686-BS1)					Prepared: 08/26/15 09:33 Analyzed: 08/26/15 10:46							
5035/8260B												
Benzene	980	---	12.5	ug/kg wet	50	1000	---	98	65-135%	---	---	
Toluene	981	---	50.0	"	"	"	---	98	"	---	---	
Ethylbenzene	959	---	25.0	"	"	"	---	96	"	---	---	
Xylenes, total	3000	---	75.0	"	"	3000	---	100	"	---	---	
Naphthalene	1120	---	50.0	"	"	1000	---	112	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 97 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*99 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*100 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*101 %*		*70-130 %*		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080728 - EPA 5035A							**Soil**					
Blank (5080728-BLK1)					Prepared: 08/27/15 09:38 Analyzed: 08/27/15 11:41							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	33.3	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 104 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*102 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*103 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*102 %*		*70-130 %*		"					
LCS (5080728-BS1)					Prepared: 08/27/15 09:38 Analyzed: 08/27/15 10:52							
5035/8260B												
Benzene	976	---	12.5	ug/kg wet	50	1000	---	98	65-135%	---	---	
Toluene	988	---	50.0	"	"	"	---	99	"	---	---	
Ethylbenzene	987	---	25.0	"	"	"	---	99	"	---	---	
Xylenes, total	3080	---	75.0	"	"	3000	---	103	"	---	---	
Naphthalene	992	---	50.0	"	"	1000	---	99	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 102 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*98 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*101 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*98 %*		*70-130 %*		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

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 5080687 - Total Solids (Dry Weight)									Soil			
Duplicate (5080687-DUP5)					Prepared: 08/26/15 18:41		Analyzed: 08/27/15 09:32					
QC Source Sample: SV6-200E-36N-10' (A5H0681-01)												
EPA 8000C												
% Solids	**86.9**	---	1.00	% by Weight	1	---	88.1	---	---	1	10%	

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

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080712							
A5H0681-01	Soil	NWTPH-Dx	08/24/15 09:20	08/26/15 14:50	10.44g/5mL	10g/5mL	0.96

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080686							
A5H0681-01	Soil	NWTPH-Gx (MS)	08/24/15 09:20	08/26/15 14:40	11.788g/10mL	10g/10mL	0.85
Batch: 5080728							
A5H0681-02RE1	Soil	NWTPH-Gx (MS)	08/24/15 09:57	08/26/15 14:40	12.737g/10mL	10g/10mL	0.79

BTEX+N Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080686							
A5H0681-01	Soil	5035/8260B	08/24/15 09:20	08/26/15 14:40	11.788g/10mL	10g/10mL	0.85
Batch: 5080728							
A5H0681-02RE1	Soil	5035/8260B	08/24/15 09:57	08/26/15 14:40	12.737g/10mL	10g/10mL	0.79

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080687							
A5H0681-01	Soil	EPA 8000C	08/24/15 09:20	08/26/15 18:41	1N/A/1N/A	1N/A/1N/A	NA
A5H0681-02	Soil	EPA 8000C	08/24/15 09:57	08/26/15 18:41	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 861M09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

Notes and Definitions

Qualifiers:

A-01	Result for diesel is due to a volatile range product. Reported diesel is for carbon range C12-C18.
V-16	Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved 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.
---	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 discrepancy 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).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

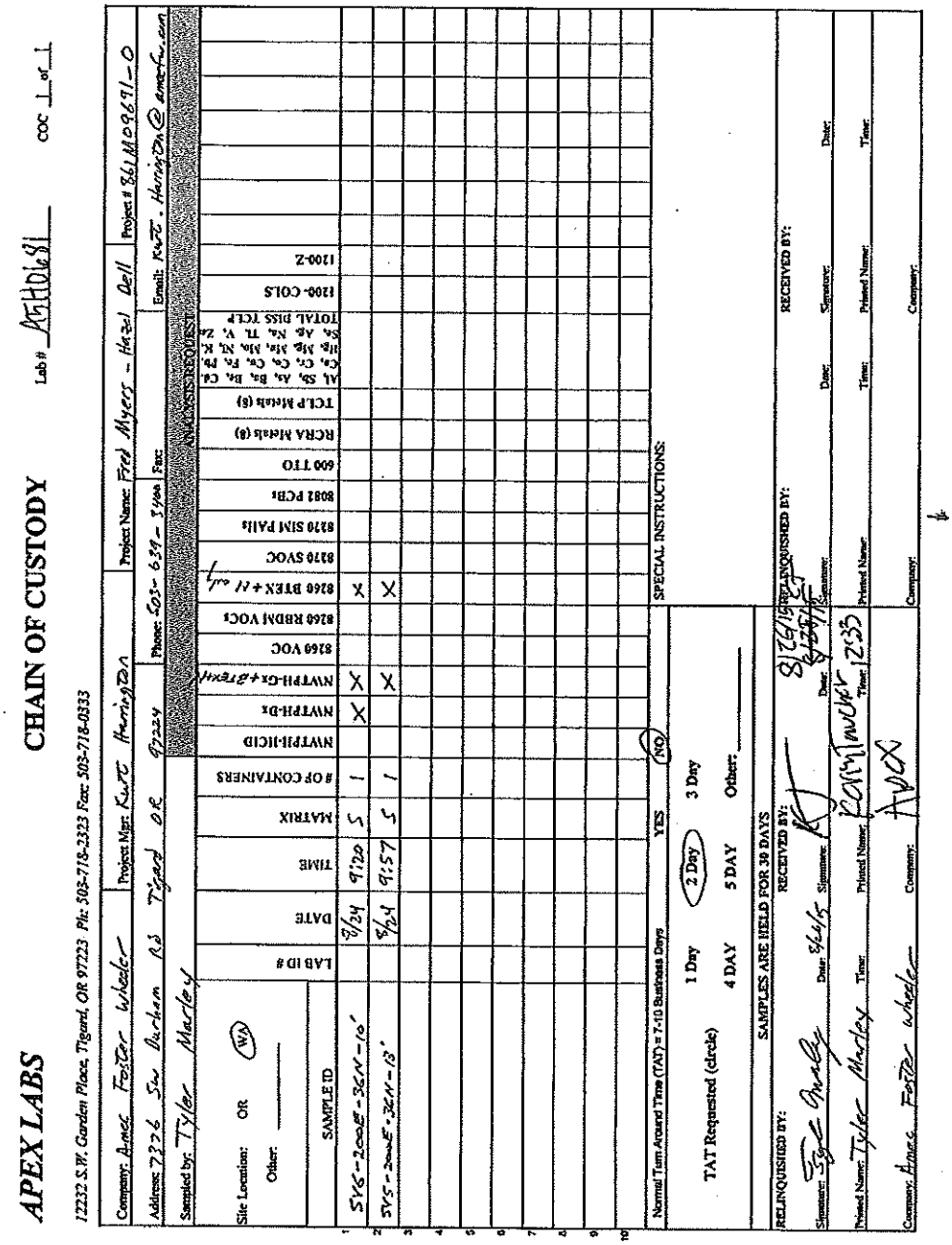
Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM09691-0	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37



Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM09691-0	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	08/31/15 13:37

APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: A5 H0681

Project/Project #: Fred Myers hazel Dell / 86IM09691-0

Delivery Info:

Date/Time Received: 8/26/15 @ 12:33 By:

Delivered by: Apex Courier Client FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: : 8/26/15 @ 14:03

Chain of Custody Included? Yes X No

Signed/Dated by Client? Yes X No

Signed/Dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	3.1						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)							
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dot applied to out of temperature samples Yes/No/NA

Samples Inspection: Inspected by: : 8/26/15 @ 14:14

All Samples Intact? Yes No Comments:

Bottle Labels/COCs agree? Yes No Comments:

Containers Appropriate for Analysis? Yes No Comments:

Do VOA Vials have Visible Headspace? Yes No NA

Comments

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments:

Additional Information:

Labeled by: Cooler Inspected by: See Project Contact Form: Y

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

Friday, September 18, 2015

Kurt Harrington
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: Fred Meyer Hazel Dell FMHD / 86IM096910

Enclosed are the results of analyses for work order A5I0057, which was received by the laboratory on 9/2/2015 at 11:25:00AM.

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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-12	A5I0057-03	Soil	08/31/15 14:35	09/02/15 11:25
SV-13	A5I0057-04	Soil	08/31/15 14:53	09/02/15 11:25
SV-15	A5I0057-06	Soil	08/31/15 15:17	09/02/15 11:25
SV-18	A5I0057-09	Soil	08/31/15 15:48	09/02/15 11:25
SV-19	A5I0057-10	Soil	08/31/15 15:56	09/02/15 11:25
SV-21	A5I0057-12	Soil	08/31/15 16:12	09/02/15 11:25
SV-24	A5I0057-15	Soil	08/31/15 16:31	09/02/15 11:25
SV-28	A5I0057-19	Soil	08/31/15 17:05	09/02/15 11:25
SV-31	A5I0057-22	Soil	08/31/15 18:02	09/02/15 11:25
SV-33	A5I0057-24	Soil	08/31/15 18:20	09/02/15 11:25

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-12 (A5I0057-03RE1)			**Matrix: Soil**		**Batch: 5090097**			**V-15**
Gasoline Range Organics	ND	---	7.47	mg/kg dry	50	09/03/15 12:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 104 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*101 %*	*Limits: 50-150 %*	"	"	"	
SV-13 (A5I0057-04)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	ND	---	7.93	mg/kg dry	50	09/02/15 16:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*95 %*	*Limits: 50-150 %*	"	"	"	
SV-15 (A5I0057-06)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**557**	---	58.6	mg/kg dry	500	09/02/15 16:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*96 %*	*Limits: 50-150 %*	"	"	"	
SV-18 (A5I0057-09)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**290**	---	59.4	mg/kg dry	500	09/02/15 17:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*95 %*	*Limits: 50-150 %*	"	"	"	
SV-19 (A5I0057-10)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	ND	---	7.33	mg/kg dry	50	09/02/15 17:44	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*95 %*	*Limits: 50-150 %*	"	"	"	
SV-21 (A5I0057-12)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**16.8**	---	6.53	mg/kg dry	50	09/02/15 18:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*97 %*	*Limits: 50-150 %*	"	"	"	
SV-24 (A5I0057-15)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**16.0**	---	6.87	mg/kg dry	50	09/02/15 18:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 105 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*96 %*	*Limits: 50-150 %*	"	"	"	
SV-28 (A5I0057-19)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**246**	---	75.2	mg/kg dry	500	09/02/15 18:57	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 92 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*101 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-31 (A5I0057-22)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	ND	---	7.42	mg/kg dry	50	09/02/15 19:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*96 %*	*Limits: 50-150 %*	"	"	"	
SV-33 (A5I0057-24)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Gasoline Range Organics	**459**	---	66.6	mg/kg dry	500	09/02/15 19:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 106 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*101 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-12 (A5I0057-03)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	18.7	ug/kg dry	50	09/02/15 16:06	5035/8260B	
Toluene	ND	---	74.7	"	"	"	"	
Ethylbenzene	ND	---	37.4	"	"	"	"	
Xylenes, total	ND	---	112	"	"	"	"	
Naphthalene	ND	---	74.7	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 98 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
SV-13 (A5I0057-04)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	19.8	ug/kg dry	50	09/02/15 16:31	5035/8260B	
Toluene	ND	---	79.3	"	"	"	"	
Ethylbenzene	ND	---	39.6	"	"	"	"	
Xylenes, total	ND	---	119	"	"	"	"	
Naphthalene	ND	---	79.3	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
SV-15 (A5I0057-06)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	147	ug/kg dry	500	09/02/15 16:55	5035/8260B	
Toluene	ND	---	586	"	"	"	"	
Ethylbenzene	**1340**	---	293	"	"	"	"	
Xylenes, total	**8350**	---	879	"	"	"	"	
Naphthalene	**4850**	---	586	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 95 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
SV-18 (A5I0057-09)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	148	ug/kg dry	500	09/02/15 17:20	5035/8260B	
Toluene	ND	---	594	"	"	"	"	
Ethylbenzene	ND	---	297	"	"	"	"	
Xylenes, total	**3380**	---	891	"	"	"	"	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-18 (A5I0057-09)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Naphthalene	2910	---	594	ug/kg dry	500	"	5035/8260B	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 98 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
SV-19 (A5I0057-10)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	18.3	ug/kg dry	50	09/02/15 17:44	5035/8260B	
Toluene	ND	---	73.3	"	"	"	"	
Ethylbenzene	ND	---	36.6	"	"	"	"	
Xylenes, total	ND	---	110	"	"	"	"	
Naphthalene	ND	---	73.3	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 101 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	
SV-21 (A5I0057-12)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	16.3	ug/kg dry	50	09/02/15 18:08	5035/8260B	
Toluene	ND	---	65.3	"	"	"	"	
Ethylbenzene	ND	---	32.7	"	"	"	"	
Xylenes, total	ND	---	98.0	"	"	"	"	
Naphthalene	ND	---	65.3	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 99 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*100 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	
SV-24 (A5I0057-15)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	17.2	ug/kg dry	50	09/02/15 18:33	5035/8260B	
Toluene	ND	---	68.7	"	"	"	"	
Ethylbenzene	ND	---	34.3	"	"	"	"	
Xylenes, total	ND	---	103	"	"	"	"	
Naphthalene	ND	---	68.7	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-24 (A5I0057-15)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Surrogate: 4-Bromofluorobenzene (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	5035/8260B	
SV-28 (A5I0057-19)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	**188**	---	188	ug/kg dry	500	09/02/15 18:57	5035/8260B	
Toluene	ND	---	752	"	"	"	"	
Ethylbenzene	**2730**	---	376	"	"	"	"	
Xylenes, total	ND	---	1130	"	"	"	"	
Naphthalene	**1860**	---	752	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*105 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	
SV-31 (A5I0057-22)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	18.6	ug/kg dry	50	09/02/15 19:22	5035/8260B	
Toluene	ND	---	74.2	"	"	"	"	
Ethylbenzene	ND	---	37.1	"	"	"	"	
Xylenes, total	ND	---	111	"	"	"	"	
Naphthalene	ND	---	74.2	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 102 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*103 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*101 %*	*Limits: 70-130 %*	"	"	"	
SV-33 (A5I0057-24)			**Matrix: Soil**		**Batch: 5090055**			**V-15**
Benzene	ND	---	166	ug/kg dry	500	09/02/15 19:47	5035/8260B	
Toluene	ND	---	666	"	"	"	"	
Ethylbenzene	ND	---	333	"	"	"	"	
Xylenes, total	ND	---	999	"	"	"	"	
Naphthalene	**912**	---	666	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 100 %*	*Limits: 70-130 %*	1	"	"	
1,4-Difluorobenzene (Surr)			*102 %*	*Limits: 70-130 %*	"	"	"	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*104 %*	*Limits: 70-130 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SV-12 (A5I0057-03)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	74.9	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-13 (A5I0057-04)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	69.5	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-15 (A5I0057-06)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	83.8	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-18 (A5I0057-09)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	85.1	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-19 (A5I0057-10)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	76.1	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-21 (A5I0057-12)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	77.5	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-24 (A5I0057-15)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	78.4	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-28 (A5I0057-19)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	73.8	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-31 (A5I0057-22)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	73.0	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	
SV-33 (A5I0057-24)			**Matrix: Soil**		**Batch: 5090367**			
% Solids	77.0	---	1.00	% by Weight	1	09/16/15 10:06	EPA 8000C	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090055 - EPA 5035A							Soil					
Blank (5090055-BLK1)					Prepared: 09/02/15 08:30 Analyzed: 09/02/15 10:41							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*102 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*95 %*		*50-150 %*			*"*				
LCS (5090055-BS2)					Prepared: 09/02/15 08:30 Analyzed: 09/02/15 10:17							
NWTPH-Gx (MS)												
Gasoline Range Organics	24.7	---	5.00	mg/kg wet	50	25.0	---	99	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*103 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*98 %*		*50-150 %*			*"*				
Duplicate (5090055-DUP2)					Prepared: 09/02/15 13:50 Analyzed: 09/02/15 20:11							V-15
QC Source Sample: SV-33 (A5I0057-24)												
NWTPH-Gx (MS)												
Gasoline Range Organics	427	---	66.6	mg/kg dry	500	---	459	---	---	7	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*97 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*99 %*		*50-150 %*			*"*				
Batch 5090097 - EPA 5035A							Soil					
Blank (5090097-BLK1)					Prepared: 09/03/15 08:00 Analyzed: 09/03/15 11:10							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*106 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*99 %*		*50-150 %*			*"*				
LCS (5090097-BS2)					Prepared: 09/03/15 08:00 Analyzed: 09/03/15 10:46							
NWTPH-Gx (MS)												
Gasoline Range Organics	25.2	---	5.00	mg/kg wet	50	25.0	---	101	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*106 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*101 %*		*50-150 %*			*"*				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090055 - EPA 5035A							Soil					
Blank (5090055-BLK1)					Prepared: 09/02/15 08:30 Analyzed: 09/02/15 10:41							
5035/8260B												
Benzene	ND	---	8.33	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	33.3	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 102 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*101 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*101 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*100 %*		*70-130 %*		"					
LCS (5090055-BS1)					Prepared: 09/02/15 08:30 Analyzed: 09/02/15 09:53							
5035/8260B												
Benzene	970	---	12.5	ug/kg wet	50	1000	---	97	65-135%	---	---	
Toluene	944	---	50.0	"	"	"	---	94	"	---	---	
Ethylbenzene	950	---	25.0	"	"	"	---	95	"	---	---	
Xylenes, total	2990	---	75.0	"	"	3000	---	100	"	---	---	
Naphthalene	1030	---	50.0	"	"	1000	---	103	"	---	---	
Surr: Dibromofluoromethane (Surr)			*Recovery: 100 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*99 %*		*70-130 %*		"					
Toluene-d8 (Surr)			*98 %*		*70-130 %*		"					
4-Bromofluorobenzene (Surr)			*100 %*		*70-130 %*		"					
Duplicate (5090055-DUP2)					Prepared: 09/02/15 13:50 Analyzed: 09/02/15 20:11							V-15
QC Source Sample: SV-33 (A510057-24)												
5035/8260B												
Benzene	ND	---	166	ug/kg dry	500	---	ND	---	---	---	30%	
Toluene	ND	---	666	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	333	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	999	"	"	---	ND	---	---	---	30%	
Naphthalene	**912**	---	666	"	"	---	912	---	---	0	30%	
Surr: Dibromofluoromethane (Surr)			*Recovery: 101 %*		*Limits: 70-130 %*		*Dilution: 1x*					
1,4-Difluorobenzene (Surr)			*100 %*		*70-130 %*		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: **Fred Meyer Hazel Dell FMHD** Project Number: 86IM096910 Project Manager: Kurt Harrington	**Reported:** 09/18/15 16:59

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090055 - EPA 5035A							**Soil**					
Duplicate (5090055-DUP2)					Prepared: 09/02/15 13:50	Analyzed: 09/02/15 20:11						V-15
QC Source Sample: SV-33 (A5I0057-24)												
Surr: Toluene-d8 (Surr)		*Recovery:*	*102 %*	*Limits:*	*70-130 %*		*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*102 %*		*70-130 %*		*"*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

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 5090367 - Total Solids (Dry Weight)							Soil					
Duplicate (5090367-DUP3)					Prepared: 09/15/15 12:39 Analyzed: 09/16/15 10:06							
QC Source Sample: SV-33 (A5I0057-24)												
EPA 8000C												
% Solids	77.2	---	1.00	% by Weight	1	---	77.0	---	---	0.3	10%	

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

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 86IM096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5090055							
A5I0057-04	Soil	NWTPH-Gx (MS)	08/31/15 14:53	09/02/15 13:50	12.57g/10mL	10g/10mL	0.80
A5I0057-06	Soil	NWTPH-Gx (MS)	08/31/15 15:17	09/02/15 13:50	12.179g/10mL	10g/10mL	0.82
A5I0057-09	Soil	NWTPH-Gx (MS)	08/31/15 15:48	09/02/15 13:50	11.6g/10mL	10g/10mL	0.86
A5I0057-10	Soil	NWTPH-Gx (MS)	08/31/15 15:56	09/02/15 13:50	11.408g/10mL	10g/10mL	0.88
A5I0057-12	Soil	NWTPH-Gx (MS)	08/31/15 16:12	09/02/15 13:50	12.701g/10mL	10g/10mL	0.79
A5I0057-15	Soil	NWTPH-Gx (MS)	08/31/15 16:31	09/02/15 13:50	11.62g/10mL	10g/10mL	0.86
A5I0057-19	Soil	NWTPH-Gx (MS)	08/31/15 17:05	09/02/15 13:50	11.788g/10mL	10g/10mL	0.85
A5I0057-22	Soil	NWTPH-Gx (MS)	08/31/15 18:02	09/02/15 13:50	12.279g/10mL	10g/10mL	0.81
A5I0057-24	Soil	NWTPH-Gx (MS)	08/31/15 18:20	09/02/15 13:50	12.569g/10mL	10g/10mL	0.80
Batch: 5090097							
A5I0057-03RE1	Soil	NWTPH-Gx (MS)	08/31/15 14:35	09/02/15 13:50	11.512g/10mL	10g/10mL	0.87

BTEX+N Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5090055							
A5I0057-03	Soil	5035/8260B	08/31/15 14:35	09/02/15 13:50	11.512g/10mL	10g/10mL	0.87
A5I0057-04	Soil	5035/8260B	08/31/15 14:53	09/02/15 13:50	12.57g/10mL	10g/10mL	0.80
A5I0057-06	Soil	5035/8260B	08/31/15 15:17	09/02/15 13:50	12.179g/10mL	10g/10mL	0.82
A5I0057-09	Soil	5035/8260B	08/31/15 15:48	09/02/15 13:50	11.6g/10mL	10g/10mL	0.86
A5I0057-10	Soil	5035/8260B	08/31/15 15:56	09/02/15 13:50	11.408g/10mL	10g/10mL	0.88
A5I0057-12	Soil	5035/8260B	08/31/15 16:12	09/02/15 13:50	12.701g/10mL	10g/10mL	0.79
A5I0057-15	Soil	5035/8260B	08/31/15 16:31	09/02/15 13:50	11.62g/10mL	10g/10mL	0.86
A5I0057-19	Soil	5035/8260B	08/31/15 17:05	09/02/15 13:50	11.788g/10mL	10g/10mL	0.85
A5I0057-22	Soil	5035/8260B	08/31/15 18:02	09/02/15 13:50	12.279g/10mL	10g/10mL	0.81
A5I0057-24	Soil	5035/8260B	08/31/15 18:20	09/02/15 13:50	12.569g/10mL	10g/10mL	0.80

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5090367							
A5I0057-03	Soil	EPA 8000C	08/31/15 14:35	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-04	Soil	EPA 8000C	08/31/15 14:53	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5I0057-06	Soil	EPA 8000C	08/31/15 15:17	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-09	Soil	EPA 8000C	08/31/15 15:48	09/15/15 12;39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-10	Soil	EPA 8000C	08/31/15 15:56	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-12	Soil	EPA 8000C	08/31/15 16:12	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-15	Soil	EPA 8000C	08/31/15 16:31	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-19	Soil	EPA 8000C	08/31/15 17:05	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-22	Soil	EPA 8000C	08/31/15 18:02	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA
A5I0057-24	Soil	EPA 8000C	08/31/15 18:20	09/15/15 12:39	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 86IM096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

Notes and Definitions

Qualifiers:

V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory 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.
---	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 discrepancy 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).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

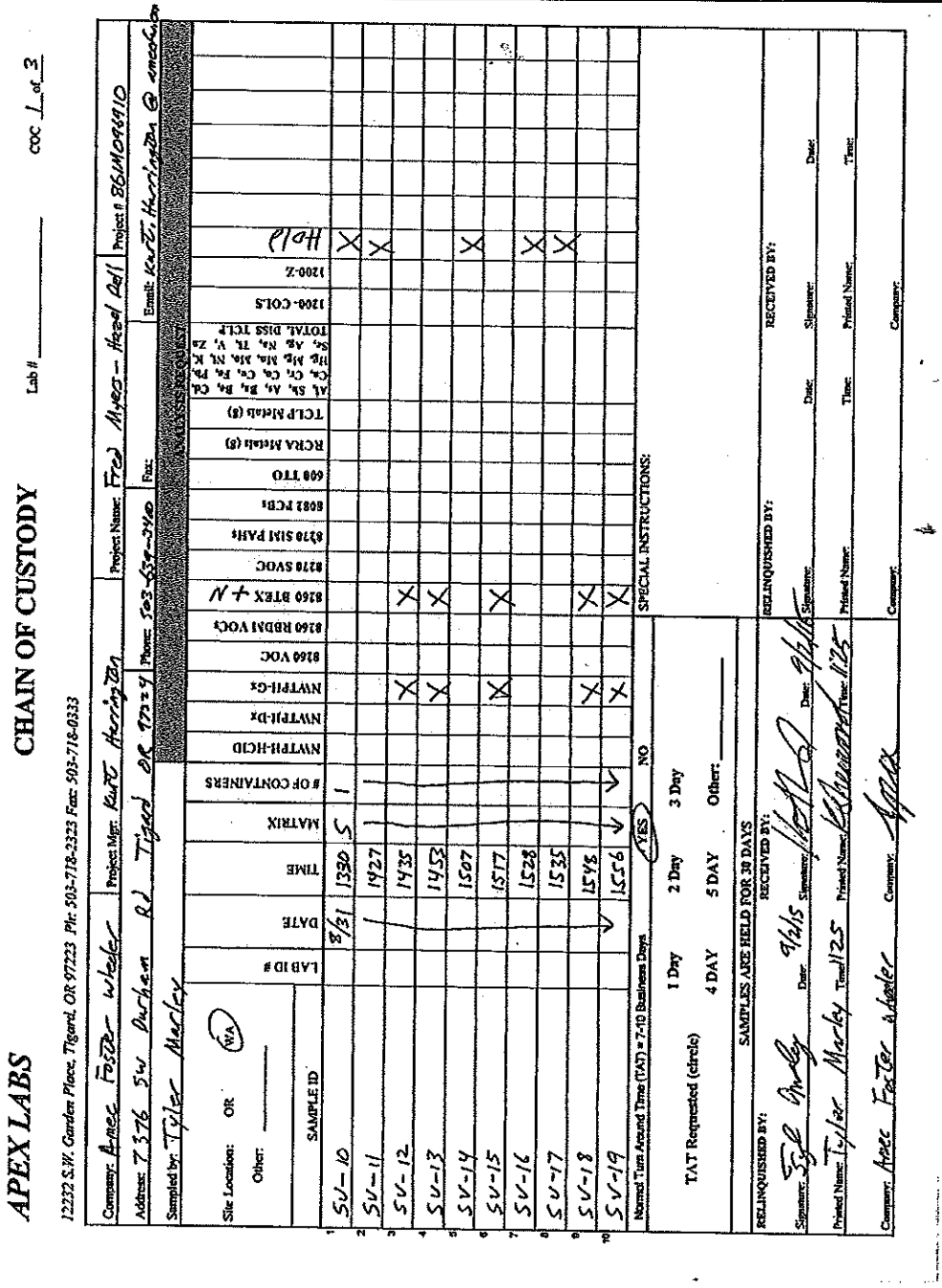
Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: **Fred Meyer Hazel Dell FMHD** Project Number: 861M096910 Project Manager: Kurt Harrington	**Reported:** 09/18/15 16:59



Apex Laboratories

Philip Nerenberg

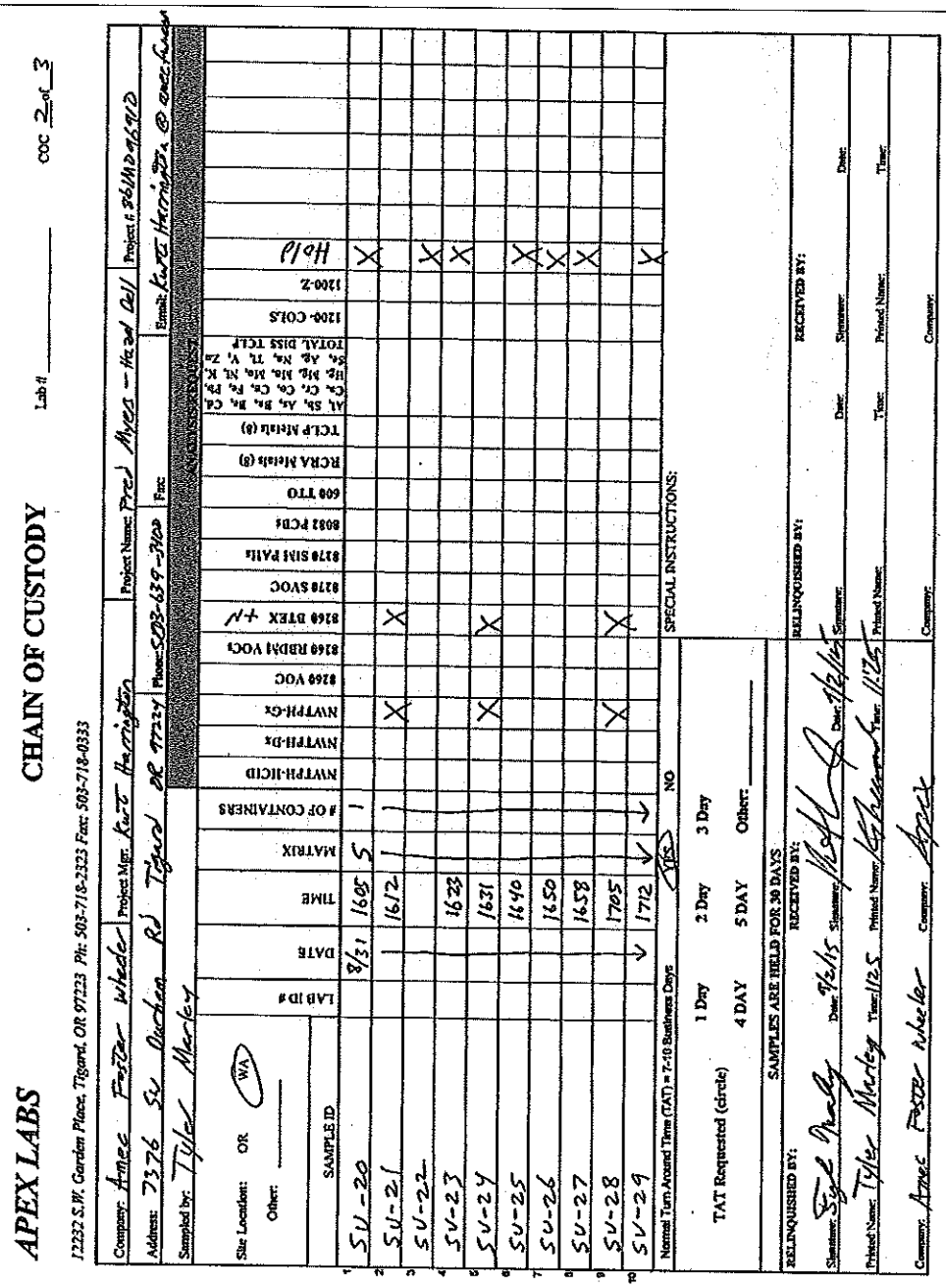
Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: **Fred Meyer Hazel Dell FMHD** Project Number: 86IM096910 Project Manager: Kurt Harrington	**Reported:** 09/18/15 16:59



Apex Laboratories

Philip Nerenberg

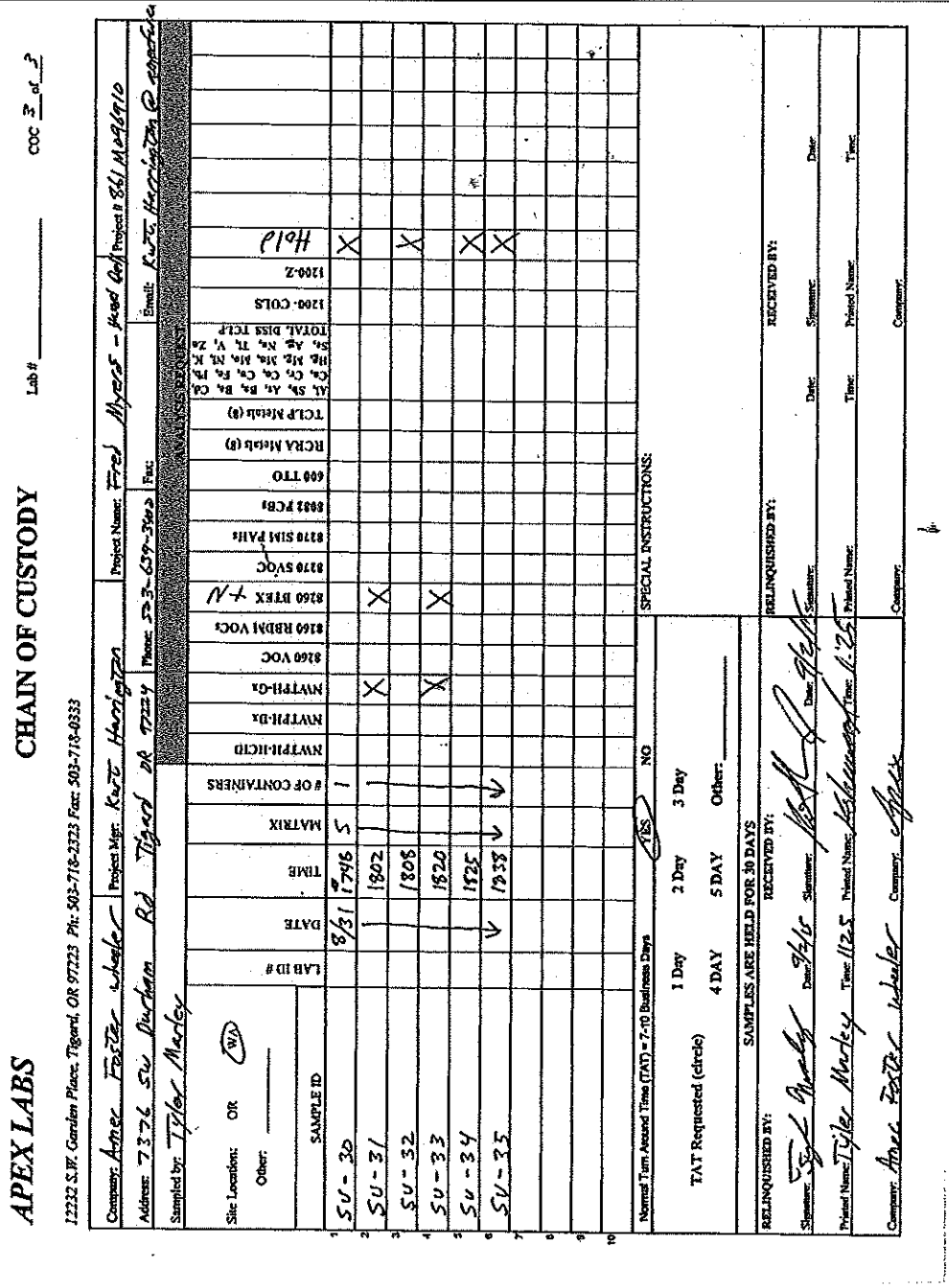
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer Hazel Dell FMHD**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: Fred Meyer Hazel Dell FMHD	
7376 SW Durham Road	Project Number: 861M096910	Reported:
Portland, OR 97224	Project Manager: Kurt Harrington	09/18/15 16:59

APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: AS 10057

Project/Project #: Fred Myers ~~Hale~~ KHS 9/2 Hazel Dell / 861M096910

Delivery Info:

Date/Time Received: 9/2/15 @ 11:25 By: UPS

Delivered by: Apex Courier___ Client_X_ FedEx___ UPS___ Swift___ Senvoy___ SDS___ Other_____

Cooler Inspection Inspected by: VDS : 9/2/15 @ 11:52

Chain of Custody Included? Yes X No___

Signed/Dated by Client? Yes X No___

Signed/Dated by Apex? Yes X No___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	5.0						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)							
Condition:	good						

Cooler out of temp? (Y/N) Possible reason why:_____

If some coolers are in temp and some out, were green dot applied to out of temperature samples Yes/No/NA

Samples Inspection: Inspected by: VDS : 9/2/15 @ 12:11

All Samples Intact? Yes X No___ Comments:_____

Bottle Labels/COCs agree? Yes X No___ Comments:_____

Containers Appropriate for Analysis? Yes X No___ Comments:_____

Do VOA Vials have Visible Headspace? Yes___ No___ NA X

Comments_____

Water Samples: pH Checked and Appropriate (except VOAs): Yes___ No___ NA X

Comments:_____

Additional Information: Missing Sample SV-22

Labeled by: KH Cooler Inspected by: VDS See Project Contact Form: (Y)

Apex Labs

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

Friday, September 11, 2015

Kurt Harrington
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

RE: Fred Meyer-Hazeldell / 861M096910

Enclosed are the results of analyses for work order A5I0058, which was received by the laboratory on 9/2/2015 at 11:30:00AM.

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

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Baker Tank	A5I0058-01	Water	09/02/15 09:20	09/02/15 11:30

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Baker Tank (A5I0058-01)			**Matrix: Water**		**Batch: 5090054**			
Gasoline Range Organics	ND	---	0.100	mg/L	1	09/02/15 15:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*100 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Baker Tank (A5I0058-01)			**Matrix: Water**		**Batch: 5090054**			
Benzene	ND	---	0.250	ug/L	1	09/02/15 15:15	EPA 8260B	
Toluene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			*Recovery: 103 %*	*Limits: 80-120 %*	"	"	"	
1,4-Difluorobenzene (Surr)			*108 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*106 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*100 %*	*Limits: 80-120 %*	"	"	"	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090054 - EPA 5030B									Water			
Blank (5090054-BLK1)					Prepared: 09/02/15 08:15 Analyzed: 09/02/15 10:34							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*100 %*	*50-150 %*			*"*					
LCS (5090054-BS2)					Prepared: 09/02/15 08:15 Analyzed: 09/02/15 10:06							
NWTPH-Gx (MS)												
Gasoline Range Organics	0.484	---	0.100	mg/L	1	0.500	---	97	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*107 %*	*50-150 %*			*"*					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090054 - EPA 5030B							**Water**					
Blank (5090054-BLK1)					Prepared: 09/02/15 08:15 Analyzed: 09/02/15 10:34							
EPA 8260B												
Benzene	ND	---	0.250	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	
Surr: Dibromofluoromethane (Surr)		*Recovery:*	*102 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Surr)			*108 %*		*80-120 %*			*"*				
Toluene-d8 (Surr)			*106 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				
LCS (5090054-BS1)					Prepared: 09/02/15 08:15 Analyzed: 09/02/15 09:38							
EPA 8260B												
Benzene	22.8	---	0.250	ug/L	1	20.0	---	114	70-130%	---	---	
Toluene	20.9	---	1.00	"	"	"	---	104	"	---	---	
Ethylbenzene	21.0	---	0.500	"	"	"	---	105	"	---	---	
Xylenes, total	62.9	---	1.50	"	"	60.0	---	105	"	---	---	
Surr: Dibromofluoromethane (Surr)		*Recovery:*	*101 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Surr)			*106 %*		*80-120 %*			*"*				
Toluene-d8 (Surr)			*105 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*95 %*		*80-120 %*			*"*				

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5090054							
A5I0058-01	Water	NWTPH-Gx (MS)	09/02/15 09:20	09/02/15 14:25	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5090054							
A5I0058-01	Water	EPA 8260B	09/02/15 09:20	09/02/15 14:25	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler	Project: **Fred Meyer-Hazeldell**	
7376 SW Durham Road	Project Number: 861M096910	**Reported:**
Portland, OR 97224	Project Manager: Kurt Harrington	09/11/15 16:59

Notes and Definitions

Qualifiers:

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.
---	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 discrepancy 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).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: Fred Meyer-Hazeldell Project Number: 861M096910 Project Manager: Kurt Harrington	Reported: 09/11/15 16:59

APEX LABS **CHAIN OF CUSTODY** Lab # AS10058 COC 1 of 1

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

Company: Amec Foster Wheeler | Project Mgr: Kurt Harrington | Project Name: Fred Meyer-Hazel Dell | Project # 861M096910

Address: 7376 SW Durham Rd Tigard OR 97224 | Phone: 503-639-3400 | Fax: | Email: Kurt.Harrington@amecfw.com

Sampled by: Tyler Marley

Site Location: OR (WA, circled) Other: ______

ANALYSIS REQUEST

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	608 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z
1	Baker Tank		9/2	920	W	20			X			X									
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

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

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

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 9/2/15	Signature: [signature] Date: 9/2/15	Signature: Date:	Signature: Date:
Printed Name: Tyler Marley Time: 1130	Printed Name: K. Schwewed Time: 11:30	Printed Name: Time:	Printed Name: Time:
Company: Amec Foster Wheeler	Company: Apex	Company:	Company:

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

[signature]

Philip Nerenberg, Lab Director

Apex Labs

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

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: Fred Meyer-Hazeldell Project Number: 861M096910 Project Manager: Kurt Harrington	Reported: 09/11/15 16:59

APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: A5 10058

Project/Project #: Fred Meyer Myers Hazel Dell/861M096910

Delivery Info:

Date/Time Received: 9/11/15 @ 11:30 By: UPS

Delivered by: Apex Courier__ Client X FedEx__ UPS__ Swift__ Senvoy__ SDS__ Other__

Cooler Inspection Inspected by: UPS : 9/11/15 @ 11:55

Chain of Custody Included? Yes X No__

Signed/Dated by Client? Yes X No__

Signed/Dated by Apex? Yes X No__

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	5.4						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)							
Condition:	good						

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dot applied to out of temperature samples Yes/No/NA

Samples Inspection: Inspected by: CAB : 9/11/15 @ 1213

All Samples Intact? Yes X No__ Comments:

Bottle Labels/COCs agree? Yes X No__ Comments: No info on HCL voas. plastic bag was labeled.

Containers Appropriate for Analysis? Yes X No__ Comments:

Do VOA Vials have Visible Headspace? Yes X No__ NA__

Comments 4/9 HCL voas has headspace

Water Samples: pH Checked and Appropriate (except VOAs): Yes X No__ NA__

Comments:

Additional Information: Visible sediment in HCL voas

Labeled by: CAB Cooler Inspected by: CAB See Project Contact Form: Y

Apex Laboratories

Philip Nerenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

ATTACHMENT B

Hillsboro Landfill Invoices

Non-Hazardous WAM Approval

Requested Management Facility: Hillsboro Landfill

Profile Number: 1190990R Waste Approval Expiration Date: 08/13/2016

APPROVAL DETAILS

Approval Decision: ☑ Approved ☐ Not Approved Profile Renewal: ☐ Yes ☑ No

Management Method: Alternate Daily Cover (ADC)

Generator Name: Fred Meyer Stores, Inc.

Material Name: Petroleum Contaminated Soil

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Shall not contain free liquids.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

WM Authorization Name: Kristin Castner Title: Waste Approval Manager

WM Authorization Signature: Date: 08/13/2015

Agency Authorization (if Required): Date:

WASTE MANAGEMENT

INVOICE

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

(503)640-9427
(503)648-3942 FAX

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Total Current Charges	Total Amount Due
141,872.29	141,872.29

Account Summary

Description	
Previous Balance	11,995.69
Total Credits and Adjustments	0.00
Total Payments Received	11,995.69-
Total Current Charges	141,872.29
Total Amount Due	141,872.29
Total Amount Past Due	0.00

Please pay total amount due. Thank you for your business.

Service Period: AUGUST 2015

Description	Amount
Landfill	141,872.29
Total Current Charges	141,872.29

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 2.5% of the unpaid amount, with a minimum monthly charge of $5.00, or such late fee allowed under applicable law, regulation or contract. Additionally, if your service is suspended for non-payment, you may be charged a resume fee to restart your service. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

New Hours: Effective 11/28/2013 Mon-Fri 6 AM to 4 PM Landfill Closed on Saturday New Holiday Hours Effective 11/28/2013 May View New Hours Online wmnorthwest.com/landfill

Use your IPhone or Android mobile device to manage your account, pay your bill, and schedule a roll-off pickup, similar to wm.com. More at wm.com/GoMobile.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
141,872.29	0.00	0.00	0.00	0.00	141,872.29

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

(503)640-9427
(503)648-3942 FAX

Payment Coupon

Please detach and send with checks only (no cash).
Please send all other correspondence to your local site.

Your Account Number
515-0000778-1515-7

Invoice Date	Your Invoice Number
09/01/2015	0089489-1515-5

Due Date	Total Due	Amount Paid
Upon Receipt	141,872.29	

To pay this bill online and switch to paperless billing, go to wm.com/paperless

1515515000077800089489000141872290001418722 9

0000208 SL T 7244 97242 -C02-P00208-11 11391134

FRED MEYER INC
PO BOX 42121
PORTLAND OR 97242-0121

Hillsboro Landfill
PO BOX 541065
LOS ANGELES CA 90054-1065

From everyday collection to environmental protection, Think Green.® Think Waste Management.

Printed on recycled paper.

NOTICE: By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. This electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

You agree, in order for us to service our account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number associated with your account, including wireless telephone numbers, which could result in charges to you. We may also contact you by sending text messages, facsimile messages or e-mails, using any e-mail address you provide to use. Methods of contact may include using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable.

Please send all bankruptcy correspondence to 2625 W. Grandview Rd. Ste 150 Phoenix, AZ 85023.
(This language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code.)

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/13/15	1382646	Vehicle#: none				
		Approval fee standard 2 bus days	1.00	ECH	75.00	75.00
		Rush waste approval fee 1-2 bus days $500	1.00	ECH	500.00	500.00
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Ticket Total				**575.00**
08/19/15	1382985	Vehicle#: 88				
		Cont. Soil - petroleum, pmt is rgc	21.08	TON	30.00	632.40
		13% Fea fee	1.00	PCT	13.00	82.21
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**714.61**
08/19/15	1382987	Vehicle#: 1				
		Cont. Soil - petroleum, pmt is rgc	22.94	TON	30.00	688.20
		13% Fea fee	1.00	PCT	13.00	89.47
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**777.67**
08/19/15	1382990	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	27.02	TON	30.00	810.60
		13% Fea fee	1.00	PCT	13.00	105.38
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**915.98**
08/19/15	1383000	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	22.71	TON	30.00	681.30
		13% Fea fee	1.00	PCT	13.00	88.57
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**769.87**
08/19/15	1383013	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	29.46	TON	30.00	883.80
		13% Fea fee	1.00	PCT	13.00	114.89
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**998.69**
08/19/15	1383019	Vehicle#: 1				
		Cont. Soil - petroleum, pmt is rgc	24.31	TON	30.00	729.30

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	94.81
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**824.11**
08/20/15	1383113	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	21.48	TON	30.00	644.40
		13% Fea fee	1.00	PCT	13.00	83.77
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**728.17**
08/20/15	1383122	Vehicle#: 8528				
		Cont. Soil - petroleum, pmt is rgc	33.53	TON	30.00	1,005.90
		13% Fea fee	1.00	PCT	13.00	130.77
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,136.67**
08/20/15	1383124	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.77	TON	30.00	953.10
		13% Fea fee	1.00	PCT	13.00	123.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,077.00**
08/20/15	1383130	Vehicle#: 8526				
		Cont. Soil - petroleum, pmt is rgc	32.49	TON	30.00	974.70
		13% Fea fee	1.00	PCT	13.00	126.71
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,101.41**
08/20/15	1383131	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	29.52	TON	30.00	885.60
		13% Fea fee	1.00	PCT	13.00	115.13
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,000.73**
08/20/15	1383137	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.47	TON	30.00	944.10
		13% Fea fee	1.00	PCT	13.00	122.73
		Profile # 119099or				

WASTE MANAGEMENT
Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,066.83**
08/20/15	1383140	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	32.88	TON	30.00	986.40
		13% Fea fee	1.00	PCT	13.00	128.23
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,114.63**
08/20/15	1383160	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	23.38	TON	30.00	701.40
		13% Fea fee	1.00	PCT	13.00	91.18
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**792.58**
08/20/15	1383166	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	31.51	TON	30.00	945.30
		13% Fea fee	1.00	PCT	13.00	122.89
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,068.19**
08/20/15	1383174	Vehicle#: 8528				
		Cont. Soil - petroleum, pmt is rgc	34.16	TON	30.00	1,024.80
		13% Fea fee	1.00	PCT	13.00	133.22
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,158.02**
08/20/15	1383177	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.56	TON	30.00	946.80
		13% Fea fee	1.00	PCT	13.00	123.08
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,069.88**
08/20/15	1383178	Vehicle#: 8526				
		Cont. Soil - petroleum, pmt is rgc	32.84	TON	30.00	985.20
		13% Fea fee	1.00	PCT	13.00	128.08
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Manifest# na				
		Ticket Total				**1,113.28**
08/20/15	1383182	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	31.31	TON	30.00	939.30
		13% Fea fee	1.00	PCT	13.00	122.11
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,061.41**
08/20/15	1383185	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.53	TON	30.00	945.90
		13% Fea fee	1.00	PCT	13.00	122.97
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,068.87**
08/20/15	1383188	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	30.89	TON	30.00	926.70
		13% Fea fee	1.00	PCT	13.00	120.47
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,047.17**
08/21/15	1383231	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	27.04	TON	30.00	811.20
		13% Fea fee	1.00	PCT	13.00	105.46
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**916.66**
08/21/15	1383235	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	33.24	TON	30.00	997.20
		13% Fea fee	1.00	PCT	13.00	129.64
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,126.84**
08/21/15	1383237	Vehicle#: 8526				
		Cont. Soil - petroleum, pmt is rgc	32.72	TON	30.00	981.60
		13% Fea fee	1.00	PCT	13.00	127.61
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,109.21**

WASTE MANAGEMENT®
Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/21/15	1383238	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	31.33	TON	30.00	939.90
		13% Fea fee	1.00	PCT	13.00	122.19
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,062.09**
08/21/15	1383241	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	32.06	TON	30.00	961.80
		13% Fea fee	1.00	PCT	13.00	125.03
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,086.83**
08/21/15	1383244	Vehicle#: 29				
		Cont. Soil - petroleum, pmt is rgc	34.29	TON	30.00	1,028.70
		13% Fea fee	1.00	PCT	13.00	133.73
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,162.43**
08/21/15	1383247	Vehicle#: 8506				
		Cont. Soil - petroleum, pmt is rgc	31.19	TON	30.00	935.70
		13% Fea fee	1.00	PCT	13.00	121.64
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,057.34**
08/21/15	1383259	Vehicle#: 7967				
		Cont. Soil - petroleum, pmt is rgc	20.49	TON	30.00	614.70
		13% Fea fee	1.00	PCT	13.00	79.91
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**694.61**
08/21/15	1383264	Vehicle#: 7420				
		Cont. Soil - petroleum, pmt is rgc	33.27	TON	30.00	998.10
		13% Fea fee	1.00	PCT	13.00	129.75
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,127.85**
08/21/15	1383267	Vehicle#: 14				
		Cont. Soil - petroleum, pmt is rgc	33.47	TON	30.00	1,004.10

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	130.53
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,134.63**
08/21/15	1383269	Vehicle#: 17				
		Cont. Soil - petroleum, pmt is rgc	29.31	TON	30.00	879.30
		13% Fea fee	1.00	PCT	13.00	114.31
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**993.61**
08/21/15	1383270	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	31.86	TON	30.00	955.80
		13% Fea fee	1.00	PCT	13.00	124.25
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,080.05**
08/21/15	1383280	Vehicle#: 8525				
		Cont. Soil - petroleum, pmt is rgc	33.00	TON	30.00	990.00
		13% Fea fee	1.00	PCT	13.00	128.70
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,118.70**
08/21/15	1383283	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	32.14	TON	30.00	964.20
		13% Fea fee	1.00	PCT	13.00	125.35
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,089.55**
08/21/15	1383288	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	30.83	TON	30.00	924.90
		13% Fea fee	1.00	PCT	13.00	120.24
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,045.14**
08/21/15	1383291	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.51	TON	30.00	945.30
		13% Fea fee	1.00	PCT	13.00	122.89
		Profile # 119099or				

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,068.19**
08/21/15	1383296	Vehicle#: 29				
		Cont. Soil - petroleum, pmt is rgc	33.92	TON	30.00	1,017.60
		13% Fea fee	1.00	PCT	13.00	132.29
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,149.89**
08/21/15	1383297	Vehicle#: 70				
		Cont. Soil - petroleum, pmt is rgc	27.23	TON	30.00	816.90
		13% Fea fee	1.00	PCT	13.00	106.20
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**923.10**
08/21/15	1383299	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	32.01	TON	30.00	960.30
		13% Fea fee	1.00	PCT	13.00	124.84
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,085.14**
08/21/15	1383302	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	28.51	TON	30.00	855.30
		13% Fea fee	1.00	PCT	13.00	111.19
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**966.49**
08/21/15	1383306	Vehicle#: 8526				
		Cont. Soil - petroleum, pmt is rgc	33.27	TON	30.00	998.10
		13% Fea fee	1.00	PCT	13.00	129.75
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,127.85**
08/21/15	1383308	Vehicle#: 8506				
		Cont. Soil - petroleum, pmt is rgc	31.03	TON	30.00	930.90
		13% Fea fee	1.00	PCT	13.00	121.02
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Manifest# na				
		Ticket Total				**1,051.92**
08/21/15	1383311	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	27.91	TON	30.00	837.30
		13% Fea fee	1.00	PCT	13.00	108.85
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**946.15**
08/21/15	1383317	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	24.37	TON	30.00	731.10
		13% Fea fee	1.00	PCT	13.00	95.04
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**826.14**
08/21/15	1383318	Vehicle#: 7420				
		Cont. Soil - petroleum, pmt is rgc	32.57	TON	30.00	977.10
		13% Fea fee	1.00	PCT	13.00	127.02
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,104.12**
08/21/15	1383328	Vehicle#: 17				
		Cont. Soil - petroleum, pmt is rgc	31.18	TON	30.00	935.40
		13% Fea fee	1.00	PCT	13.00	121.60
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,057.00**
08/21/15	1383330	Vehicle#: 14				
		Cont. Soil - petroleum, pmt is rgc	35.76	TON	30.00	1,072.80
		13% Fea fee	1.00	PCT	13.00	139.46
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,212.26**
08/21/15	1383331	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	32.31	TON	30.00	969.30
		13% Fea fee	1.00	PCT	13.00	126.01
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,095.31**

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/21/15	1383340	Vehicle#: 7967				
		Cont. Soil - petroleum, pmt is rgc	19.08	TON	30.00	572.40
		13% Fea fee	1.00	PCT	13.00	74.41
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**646.81**
08/21/15	1383345	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	32.09	TON	30.00	962.70
		13% Fea fee	1.00	PCT	13.00	125.15
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,087.85**
08/21/15	1383348	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	30.55	TON	30.00	916.50
		13% Fea fee	1.00	PCT	13.00	119.15
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,035.65**
08/21/15	1383355	Vehicle#: 8525				
		Cont. Soil - petroleum, pmt is rgc	32.18	TON	30.00	965.40
		13% Fea fee	1.00	PCT	13.00	125.50
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,090.90**
08/21/15	1383358	Vehicle#: 70				
		Cont. Soil - petroleum, pmt is rgc	23.38	TON	30.00	701.40
		13% Fea fee	1.00	PCT	13.00	91.18
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**792.58**
08/21/15	1383365	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	32.10	TON	30.00	963.00
		13% Fea fee	1.00	PCT	13.00	125.19
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,088.19**
08/21/15	1383370	Vehicle#: 29				
		Cont. Soil - petroleum, pmt is rgc	34.38	TON	30.00	1,031.40

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	134.08
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,165.48**
08/21/15	1383372	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.65	TON	30.00	949.50
		13% Fea fee	1.00	PCT	13.00	123.44
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,072.94**
08/21/15	1383383	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	27.43	TON	30.00	822.90
		13% Fea fee	1.00	PCT	13.00	106.98
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**929.88**
08/21/15	1383385	Vehicle#: 7420				
		Cont. Soil - petroleum, pmt is rgc	29.69	TON	30.00	890.70
		13% Fea fee	1.00	PCT	13.00	115.79
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,006.49**
08/21/15	1383387	Vehicle#: 14				
		Cont. Soil - petroleum, pmt is rgc	34.59	TON	30.00	1,037.70
		13% Fea fee	1.00	PCT	13.00	134.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,172.60**
08/24/15	1383433	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.90	TON	30.00	957.00
		13% Fea fee	1.00	PCT	13.00	124.41
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,081.41**
08/24/15	1383440	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	34.17	TON	30.00	1,025.10
		13% Fea fee	1.00	PCT	13.00	133.26
		Profile # 119099or				

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,158.36**
08/24/15	1383447	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	28.18	TON	30.00	845.40
		13% Fea fee	1.00	PCT	13.00	109.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**955.30**
08/24/15	1383449	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	33.21	TON	30.00	996.30
		13% Fea fee	1.00	PCT	13.00	129.52
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,125.82**
08/24/15	1383452	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	23.00	TON	30.00	690.00
		13% Fea fee	1.00	PCT	13.00	89.70
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**779.70**
08/24/15	1383454	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	34.09	TON	30.00	1,022.70
		13% Fea fee	1.00	PCT	13.00	132.95
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,155.65**
08/24/15	1383460	Vehicle#: 8525				
		Cont. Soil - petroleum, pmt is rgc	34.05	TON	30.00	1,021.50
		13% Fea fee	1.00	PCT	13.00	132.80
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,154.30**
08/24/15	1383467	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.67	TON	30.00	950.10
		13% Fea fee	1.00	PCT	13.00	123.51
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Manifest# na				
		Ticket Total				**1,073.61**
08/24/15	1383473	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	32.98	TON	30.00	989.40
		13% Fea fee	1.00	PCT	13.00	128.62
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,118.02**
08/24/15	1383475	Vehicle#: 8510				
		Cont. Soil - petroleum, pmt is rgc	34.46	TON	30.00	1,033.80
		13% Fea fee	1.00	PCT	13.00	134.39
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,168.19**
08/24/15	1383478	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	29.87	TON	30.00	896.10
		13% Fea fee	1.00	PCT	13.00	116.49
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,012.59**
08/24/15	1383493	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	29.55	TON	30.00	886.50
		13% Fea fee	1.00	PCT	13.00	115.25
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,001.75**
08/24/15	1383501	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.13	TON	30.00	933.90
		13% Fea fee	1.00	PCT	13.00	121.41
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,055.31**
08/24/15	1383503	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	24.03	TON	30.00	720.90
		13% Fea fee	1.00	PCT	13.00	93.72
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**814.62**

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/24/15	1383504	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	33.40	TON	30.00	1,002.00
		13% Fea fee	1.00	PCT	13.00	130.26
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,132.26**
08/24/15	1383506	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	27.51	TON	30.00	825.30
		13% Fea fee	1.00	PCT	13.00	107.29
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**932.59**
08/24/15	1383510	Vehicle#: 8524				
		Cont. Soil - petroleum, pmt is rgc	32.86	TON	30.00	985.80
		13% Fea fee	1.00	PCT	13.00	128.15
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,113.95**
08/24/15	1383512	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	24.16	TON	30.00	724.80
		13% Fea fee	1.00	PCT	13.00	94.22
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**819.02**
08/24/15	1383522	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.92	TON	30.00	957.60
		13% Fea fee	1.00	PCT	13.00	124.49
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,082.09**
08/24/15	1383523	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	31.58	TON	30.00	947.40
		13% Fea fee	1.00	PCT	13.00	123.16
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,070.56**
08/24/15	1383540	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	32.90	TON	30.00	987.00

0002208-0000008-0001840

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	128.31
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,115.31**
08/24/15	1383542	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.41	TON	30.00	942.30
		13% Fea fee	1.00	PCT	13.00	122.50
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,064.80**
08/24/15	1383552	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	25.25	TON	30.00	757.50
		13% Fea fee	1.00	PCT	13.00	98.48
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**855.98**
08/24/15	1383553	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.21	TON	30.00	936.30
		13% Fea fee	1.00	PCT	13.00	121.72
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,058.02**
08/24/15	1383558	Vehicle#: 8517				
		Cont. Soil - petroleum, pmt is rgc	28.60	TON	30.00	858.00
		13% Fea fee	1.00	PCT	13.00	111.54
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**969.54**
08/24/15	1383559	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	26.95	TON	30.00	808.50
		13% Fea fee	1.00	PCT	13.00	105.11
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**913.61**
08/24/15	1383564	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	32.86	TON	30.00	985.80
		13% Fea fee	1.00	PCT	13.00	128.15
		Profile # 119099or				

WASTE MANAGEMENT®
Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,113.95**
08/24/15	1383568	Vehicle#: 8525				
		Cont. Soil - petroleum, pmt is rgc	31.70	TON	30.00	951.00
		13% Fea fee	1.00	PCT	13.00	123.63
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,074.63**
08/24/15	1383570	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.14	TON	30.00	934.20
		13% Fea fee	1.00	PCT	13.00	121.45
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,055.65**
08/24/15	1383576	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	21.18	TON	30.00	635.40
		13% Fea fee	1.00	PCT	13.00	82.60
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**718.00**
08/24/15	1383577	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	31.74	TON	30.00	952.20
		13% Fea fee	1.00	PCT	13.00	123.79
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,075.99**
08/24/15	1383594	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	27.35	TON	30.00	820.50
		13% Fea fee	1.00	PCT	13.00	106.67
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**927.17**
08/25/15	1383607	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	30.69	TON	30.00	920.70
		13% Fea fee	1.00	PCT	13.00	119.69
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver				

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Manifest# na				
		Ticket Total				**1,040.39**
08/25/15	1383610	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.04	TON	30.00	931.20
		13% Fea fee	1.00	PCT	13.00	121.06
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,052.26**
08/25/15	1383611	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	33.24	TON	30.00	997.20
		13% Fea fee	1.00	PCT	13.00	129.64
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,126.84**
08/25/15	1383612	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	34.18	TON	30.00	1,025.40
		13% Fea fee	1.00	PCT	13.00	133.30
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,158.70**
08/25/15	1383617	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	31.10	TON	30.00	933.00
		13% Fea fee	1.00	PCT	13.00	121.29
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,054.29**
08/25/15	1383626	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	24.80	TON	30.00	744.00
		13% Fea fee	1.00	PCT	13.00	96.72
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**840.72**
08/25/15	1383628	Vehicle#: 8504				
		Cont. Soil - petroleum, pmt is rgc	27.41	TON	30.00	822.30
		13% Fea fee	1.00	PCT	13.00	106.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**929.20**

WASTE MANAGEMENT
Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/25/15	1383638	Vehicle#: 8510				
		Cont. Soil - petroleum, pmt is rgc	27.57	TON	30.00	827.10
		13% Fea fee	1.00	PCT	13.00	107.52
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**934.62**
08/25/15	1383641	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	28.97	TON	30.00	869.10
		13% Fea fee	1.00	PCT	13.00	112.98
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**982.08**
08/25/15	1383645	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	31.53	TON	30.00	945.90
		13% Fea fee	1.00	PCT	13.00	122.97
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,068.87**
08/25/15	1383654	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	30.49	TON	30.00	914.70
		13% Fea fee	1.00	PCT	13.00	118.91
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,033.61**
08/25/15	1383661	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	34.93	TON	30.00	1,047.90
		13% Fea fee	1.00	PCT	13.00	136.23
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,184.13**
08/25/15	1383665	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	32.73	TON	30.00	981.90
		13% Fea fee	1.00	PCT	13.00	127.65
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,109.55**
08/25/15	1383671	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	23.82	TON	30.00	714.60

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	92.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**807.50**
08/25/15	1383676	Vehicle#: 8508				
		Cont. Soil - petroleum, pmt is rgc	33.07	TON	30.00	992.10
		13% Fea fee	1.00	PCT	13.00	128.97
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,121.07**
08/25/15	1383697	Vehicle#: 8571				
		Cont. Soil - petroleum, pmt is rgc	29.54	TON	30.00	886.20
		13% Fea fee	1.00	PCT	13.00	115.21
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,001.41**
08/25/15	1383703	Vehicle#: 8527				
		Cont. Soil - petroleum, pmt is rgc	32.11	TON	30.00	963.30
		13% Fea fee	1.00	PCT	13.00	125.23
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,088.53**
08/25/15	1383716	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.49	TON	30.00	944.70
		13% Fea fee	1.00	PCT	13.00	122.81
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,067.51**
08/25/15	1383721	Vehicle#: 8529				
		Cont. Soil - petroleum, pmt is rgc	32.10	TON	30.00	963.00
		13% Fea fee	1.00	PCT	13.00	125.19
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,088.19**
08/25/15	1383732	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	30.97	TON	30.00	929.10
		13% Fea fee	1.00	PCT	13.00	120.78
		Profile # 119099or				

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,049.88**
08/25/15	1383745	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	22.86	TON	30.00	685.80
		13% Fea fee	1.00	PCT	13.00	89.15
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**774.95**
08/25/15	1383749	Vehicle#: 8503				
		Cont. Soil - petroleum, pmt is rgc	29.86	TON	30.00	895.80
		13% Fea fee	1.00	PCT	13.00	116.45
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,012.25**
08/26/15	1383816	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	30.92	TON	30.00	927.60
		13% Fea fee	1.00	PCT	13.00	120.59
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,048.19**
08/26/15	1383823	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	29.55	TON	30.00	886.50
		13% Fea fee	1.00	PCT	13.00	115.25
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,001.75**
08/26/15	1383827	Vehicle#: 3				
		Cont. Soil - petroleum, pmt is rgc	34.42	TON	30.00	1,032.60
		13% Fea fee	1.00	PCT	13.00	134.24
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,166.84**
08/26/15	1383831	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.13	TON	30.00	933.90
		13% Fea fee	1.00	PCT	13.00	121.41
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Manifest# na				
		Ticket Total				**1,055.31**
08/26/15	1383841	Vehicle#: 6465				
		Cont. Soil - petroleum, pmt is rgc	32.98	TON	30.00	989.40
		13% Fea fee	1.00	PCT	13.00	128.62
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,118.02**
08/26/15	1383846	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	23.47	TON	30.00	704.10
		13% Fea fee	1.00	PCT	13.00	91.53
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**795.63**
08/26/15	1383847	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	29.95	TON	30.00	898.50
		13% Fea fee	1.00	PCT	13.00	116.81
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,015.31**
08/26/15	1383849	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	21.77	TON	30.00	653.10
		13% Fea fee	1.00	PCT	13.00	84.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**738.00**
08/26/15	1383860	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	31.65	TON	30.00	949.50
		13% Fea fee	1.00	PCT	13.00	123.44
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,072.94**
08/26/15	1383868	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	33.05	TON	30.00	991.50
		13% Fea fee	1.00	PCT	13.00	128.90
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,120.40**

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
08/26/15	1383869	Vehicle#: 3				
		Cont. Soil - petroleum, pmt is rgc	33.41	TON	30.00	1,002.30
		13% Fea fee	1.00	PCT	13.00	130.30
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,132.60**
08/26/15	1383874	Vehicle#: 8505				
		Cont. Soil - petroleum, pmt is rgc	31.45	TON	30.00	943.50
		13% Fea fee	1.00	PCT	13.00	122.66
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,066.16**
08/26/15	1383880	Vehicle#: 6465				
		Cont. Soil - petroleum, pmt is rgc	32.93	TON	30.00	987.90
		13% Fea fee	1.00	PCT	13.00	128.43
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,116.33**
08/26/15	1383888	Vehicle#: 134				
		Cont. Soil - petroleum, pmt is rgc	23.42	TON	30.00	702.60
		13% Fea fee	1.00	PCT	13.00	91.34
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**793.94**
08/26/15	1383893	Vehicle#: b20				
		Cont. Soil - petroleum, pmt is rgc	29.12	TON	30.00	873.60
		13% Fea fee	1.00	PCT	13.00	113.57
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**987.17**
08/26/15	1383906	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	32.04	TON	30.00	961.20
		13% Fea fee	1.00	PCT	13.00	124.96
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,086.16**
08/26/15	1383911	Vehicle#: 5				
		Cont. Soil - petroleum, pmt is rgc	27.95	TON	30.00	838.50

3000208-0000012-0001844

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
		13% Fea fee	1.00	PCT	13.00	109.01
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**947.51**
08/26/15	1383913	Vehicle#: 3				
		Cont. Soil - petroleum, pmt is rgc	33.91	TON	30.00	1,017.30
		13% Fea fee	1.00	PCT	13.00	132.25
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,149.55**
08/27/15	1383952	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	30.90	TON	30.00	927.00
		13% Fea fee	1.00	PCT	13.00	120.51
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,047.51**
08/27/15	1383953	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	30.95	TON	30.00	928.50
		13% Fea fee	1.00	PCT	13.00	120.71
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,049.21**
08/27/15	1384002	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	32.66	TON	30.00	979.80
		13% Fea fee	1.00	PCT	13.00	127.37
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,107.17**
08/27/15	1384006	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	34.15	TON	30.00	1,024.50
		13% Fea fee	1.00	PCT	13.00	133.19
		Profile # 119099or				
		Generator fred meyer stores inc_7400 nw hw 99_vancouver				
		Manifest# na				
		Ticket Total				**1,157.69**
08/28/15	1384045	Vehicle#: 8565				
		Cont. Soil - petroleum, pmt is rgc	30.70	TON	30.00	921.00
		13% Fea fee	1.00	PCT	13.00	119.73
		Profile # 119099or				

WASTE MANAGEMENT

Hillsboro Landfill
3205 SE Minter Bridge Road
Hillsboro, OR 97123

Customer:	FRED MEYER INC
Online WM ezPay ID:	**00003-86903-95002**
Invoice Date:	09/01/2015
Invoice Number:	0089489-1515-5
Account Number:	515-0000778-1515-7
Due Date:	Due Upon Receipt

Service Location: 515-778 Fred Meyer Inc: PO Box 42121: Portland Or 97242-0121

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,040.73**
08/28/15	1384046	Vehicle#: 8513				
		Cont. Soil - petroleum, pmt is rgc	32.29	TON	30.00	968.70
		13% Fea fee	1.00	PCT	13.00	125.93
		Profile # 119099or Generator fred meyer stores inc_7400 nw hw 99_vancouver Manifest# na				
		Ticket Total				**1,094.63**
		Total charges for service location				**141,872.29**
		Total Current Charges				**141,872.29**

Payments Received Detail

08/28/2006 Payment - thank you	11,995.69-
Total Payments Received	**11,995.69-**

ATTACHMENT C

Ecology 30-Day Notice for UST Closure

DEPARTMENT OF ECOLOGY
State of Washington

30-DAY NOTICE
FOR UNDERGROUND STORAGE TANKS

UST ID #: _____
County: Clark

This form provides Ecology 30-days' advanced notice for the following projects, as required by Chapter 173-360 WAC. Instructions are found on the back page.

Please ✓ the appropriate box: ☐ Intent to Install ☑ Intent to Close ☐ Change-In-Service

I. SITE INFORMATION		II. OWNER/OPERATOR INFORMATION	
Tag or UBI # (if applicable):	Not Applicable	Owner/Operator Name:	Dan Hermann
UST ID # (if applicable):	Not Applicable	Business Name:	Fred Meyer Stores, Inc.
Site Name:	Fred Meyer Hazel Dell Fuel Center	Mailing Address:	P.O. Box 42121
Site Address:	7400 NE HWY 99	City: Portland	State: OR Zip: 97242
City:	Vancouver	Phone:	(503) 797-3512
Phone:	Not Applicable	Email:	daniel-hermann@fredmeyer.com

III. CERTIFIED SERVICE PROVIDER(S)

Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.

Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.

1) ☐ Installer ☑ Decommissioner ☐ Site Assessor

Company Name:	Meng Hannan Construction	Certification Type:	UST Decommissioning
Service Provider Name:	Vic Uptmor	Cert. No.: 21073	Exp. Date: 3/14/2016
Provider Phone:	(503) 761-5290	Provider Email:	vicu@menghannan.com

2) ☐ Installer ☐ Decommissioner ☒ Site Assessor

Company Name:	Amec Foster Wheeler	Certification Type:	WA State Site Assessment
Service Provider Name:	John L. Kuiper	Cert. No.: 829.4454	Exp. Date: 10/18/2016
Provider Phone:	(503) 639-3400	Provider Email:	john.kuiper@amecfw.com

IV. TANK INFORMATION

TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
UST 1	Heating Oil	~900 gal	8/24/2015	Previously unknown and unregistered UST was discovered during construction excavation activities on August 21, 2015.

ATTACHMENT D

UST Disposal Receipts

15011

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			WAV- 7173

GENERATOR

5. Generator's Name and Mailing Address
Meng Hannan Construction, Inc
9301 S.E. Stanley Avenue
Portland, OR 97222
Generator's Phone: 503-761-5200

Generator's Site Address (if different than mailing address)
4719 NE SANDY BLVD
PORTLAND, OR

6. Transporter 1 Company Name: WEST COAST MARINE CLEANING,INC
U.S. EPA ID Number: WAD988479440

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Oil Re-Refining, Inc
4150 N. Suttle Road
Portland, OR 97210
Facility's Phone: 503-286-5027
U.S. EPA ID Number: ORD980975602

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	OIL & WATER FOR RECYCLING		TT	150	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE OIL TANK FROM FRED MEYER HWY 99 VANCOUVER WA

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: D. Dexter | Signature | Month: 8 | Day: 26 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

PACIFIC COAST SHREDDING

Date: 09/30/2015

4343193 P 4343193

Vendor: 319138 HIGHAM EXCAVATING INC

Ticket#: 600780

Paid To: HIGHAM EXCAVATING INC

Total Wt: 821

Desorip:

Truck# Notes:

Tot.Paid: $36.90

Commodity	Gross	Tare	Tare2	Contam	Net	UM	Price	Total
Old Oil Tank	12,480	11,660			820	N	90.00	36.90
Environmental Surcharge	1				1	EA		.00

Tank Scrapping

ATTACHMENT E

CRWD Letter of Discharge

CLARK REGIONAL WASTEWATER DISTRICT

Clark Regional Wastewater District
PRETREATMENT
Letter of Discharge for
Construction Wastewater

LOD No: 6-2015
DATE: September 3, 2015

Fred Meyer
7700 NE Highway 99
Vancouver, WA 98665

The Clark Regional Wastewater District (District) authorizes the above User to conduct a one-time discharge event of wastewater generated from construction remediation process into the District sanitary sewer collection system in compliance with the District Pretreatment Program Code 5.52, any applicable provisions of Federal or State Law or Regulation and all conditions contained in this Letter of Discharge (LOD). It is the responsibility of the User to ensure any contracted work is compliant with all local/state codes while performing contracted work. All conditions contained in this LOD must be strictly adhered to.

Prior to Discharge

A grab sample shall be collected and analyzed for the following constituents: Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and Gas Range Total Petroleum Hydrocarbons (NWTPH-Gx). Samples shall be taken by the User, or a contracted party, and delivered to a State of Washington accredited analytical laboratory for analysis. The results shall be submitted to the District Pretreatment Coordinator for review. The User has no right to discharge wastewater violating established Local Limits or National Standards, found in 40 CFR Chapter I, Subchapter N, Parts 405-471, pursuant to District Code 5.52.060.

Monitoring and Reporting

The User shall give 24 hours' notice before starting discharge. A District Inspector may be on site at any point during discharge event. Upon completion of discharge the District Pretreatment Coordinator shall be notified.

The volume of flow discharged shall be tracked daily by the User. The daily and total volume of discharge shall be reported to the District Pretreatment Coordinator upon termination of discharge for billing purposes.

Discharge Location

Based on the volume and characteristics of the wastewater to be discharged, the District will allow the following means of discharge:

1. **Manhole 42-804**: Discharge into this manhole shall be conditionally allowed as follows:.
    a. The flow of wastewater shall not exceed a volume of 200 gallons per minute.
    b. All appropriate Best management Practices shall be utilized to prevent discharge of solid material to the sanitary sewer collection system.
    c. If the receiving line is compromised, discharge shall stop immediately. The District has the right to order discharge to stop at any time. Once the District determines that the line can again receive flow, the User will be notified that discharge may be recommenced. It is the responsibility of the User to notify the District of any complications caused by discharge.

If at any point in time the discharge water is found to be out of compliance with the terms of this permit the discharge will be discontinued until compliance can be reestablished.

Rates & Charges

The following fees and charges have been estimated. Actual fees due and owing will be calculated using the Miscellaneous Fee schedule located in Chapter 4.04 of the District Code based upon actual

$ 65.00	Discharge Permit Fee
$ 80.00	Inspection Fee Estimate - Four inspections at $80.00/each, standard rate ($100.00/each overtime). Inspections include: Initial Site Inspection, Sampling Witness Inspection, Lateral TV Inspection, Connection Inspection, or any other onsite visit made by District personnel.
$ 442.50	Gallonage Fee, $0.015/gal x 39,500 gallons
$ 587.50	Estimated Total Amount Owing

Permission to Enter Site

The User shall grant Clark Regional Wastewater District, a Municipal Corporation, and its employees, agents, or contractors, the right to enter upon site for the purpose of sampling and inspecting the waste and the discharge system and the sanitary sewer lateral.

Duty to Comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief, and summary abatements.

Compliance with Applicable Pretreatment Standards and Requirements

Compliance with this permit does not relieve the permittee from its obligations regarding compliance with any and all applicable local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.

Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Effective Date: September 3, 2015

Expiration Date: September 11, 2015

Authorization Signature: _____ Date: 9.3.15
(District Pretreatment Coordinator)

ATTACHMENT F

Stormwater Outlet Trench Backfill Documentation

AGC Oregon Columbia Chapter Associated General Contractors

Meng-Hannan Construction, Inc.

GENERAL CONTRACTORS

November 23, 2015

Fred Meyer Stores
3800 SE 22nd Ave.
Portland, OR 97202

Attn: Dan Hermann, Bruce Chan

RE: Controlled Density Backfill
Hazel Dell Fred Meyer
Fuel Stop #140
7400 Hwy 99
Hazel Dell, WA

Per direction from Dan Hermann with Fred Meyer, and Greg Landau, PE, with GeoEngineers, we discussed how to best install controlled density backfill on the outfall trench area for the storm water detention vault at the above mentioned Fred Meyer Fuel Facility in Hazel Dell, WA, to control water from leaving the area around the detention vault, through the normally porous granular backfill.

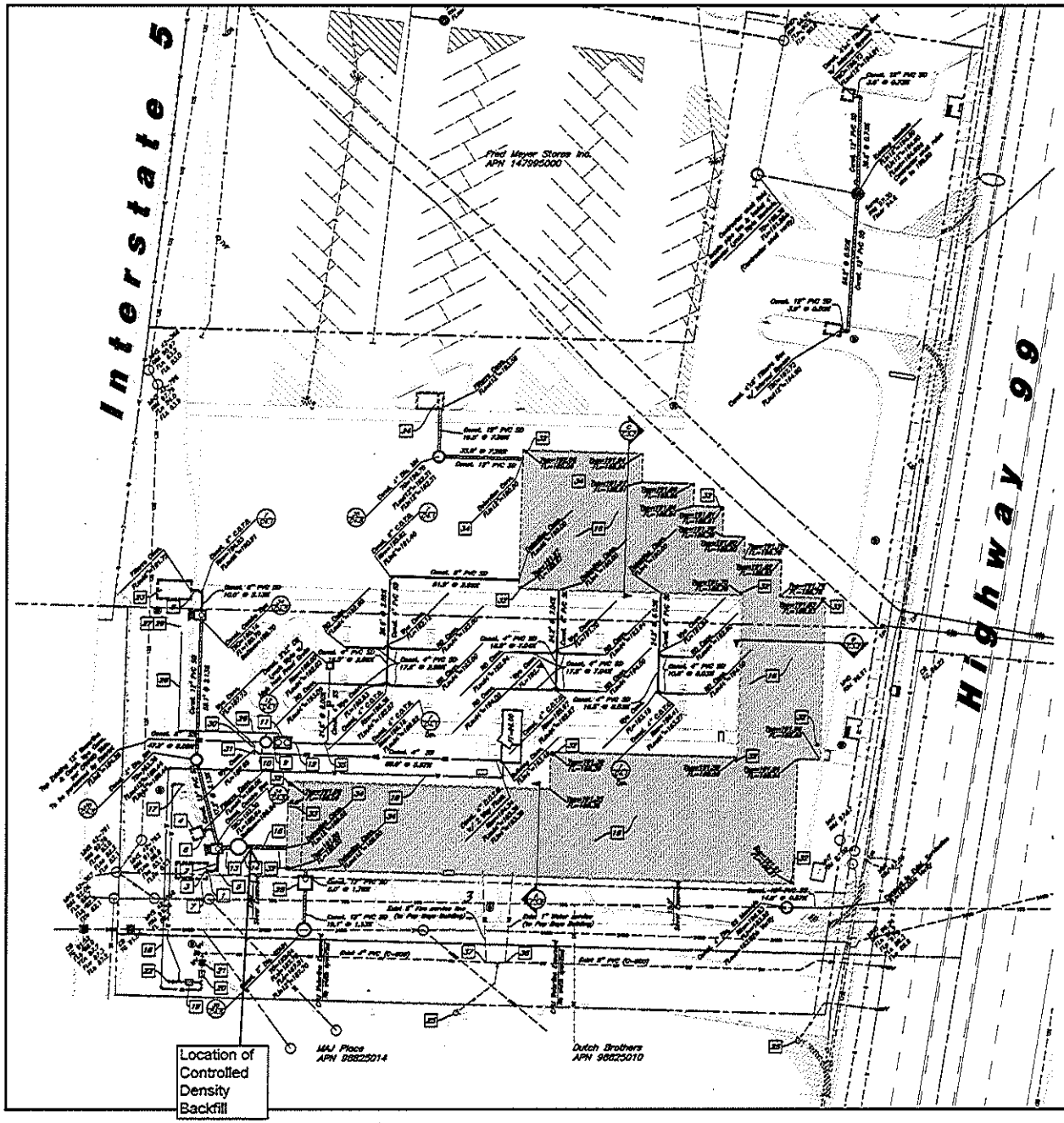
The method chosen was to dig down to native soil, and place the CDF to a height above the vault excavation. Because of the difficulty getting a granular CDF, we chose, with approval to backfill with concrete, which exceeds the permeability requirements first stipulated. This work was done on November 10, 2015, with Bruce Chan, Fred Meyer's project engineer on site to observe.

The area backfilled was excavated to an approx.. depth of 6' by 8' across, by about 4' in thickness. This was poured with 3500 psi concrete. Photos are attached.

Sincerely,

John Failor
Vice President

9301 SE Stanley Avenue • Portland, OR 97222 • Phone 503.761.5290 • Fax 503.761.4912 • CCB # 47283



General Utility Notes

1. All power and water facilities shall be constructed per local jurisdiction requirements and current Oregon Structural Specialty Code.
2. Coordinate all utility connections to building with plumbing plans and building contractor.
3. Verify depth and location of all existing utilities prior to construction. Any and all utility lines, Public Contractor is aware of any discrepancies in the utility plans or any unmarked utility lines.
4. All catch basin and inlet box grates are to be bicycle safe.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Dry lines, telephone lines, and cable TV lines are not a part of these plans.
7. Water service shall be installed per Clark Public Utilities standards. Water meter shall be installed by Clark Public Utilities after the contractor has established that water pressure, service lines, and all associated components and valves are adequate and free of leaks. It will be contractor's responsibility to install all these requirements.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed per Clark Public Utilities standards. It will be the contractor's responsibility to install all these requirements including, but not limited to, all water valves, fittings, temporary blocking, valve boxes, plugs, hydrant spools to proper grade.
9. Contractor shall locate a 12" sanitary sewer cleanout at manhole/cleanout, inches, inches, manhole is very water structure located within the asphalt.
10. All public water system lines are marked in the color and manufacturer of Clark Public Utilities "Water Main Installation Standard Details".

Utility Piping Materials

All piping materials shall be per local agency standards of the specifications listed in a manufacturer. All utility piping shall be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Gallery Service Laterals

1. Polyethylene (PE) Water Pipe (Up to 3 inches diameter), ASTM D2737, PE 3408, SDR 9 (200 psi)
2. Copper Pipe (Up to 3 inches diameter) Type "K"

Water Main Lines and Fire Lines

1. Polyvinyl Chloride (PVC) (4 inches to 12 inches diameter) ASTM D3034, Grade SDR

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

1. 12" Pipe or smaller — Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Scale: 1" = 20'

Storm Drain Maintenance NOTE:

All Portions of the onsite Storm Drain System shall be Privately maintained

Storm Drain Note

All Storm Drainage Pipe Lengths and Slopes are from Center of Box to Center of Box

Contractor NOTE:

Post Construction Contractor to Perform RV Control of Grades Through Entire Post Prior to Completion of Installation.

CAUTION !

The location and/or elevations of utility services as shown on these plans are plotted or scaled by others from utility companies maps and records. The information is not to be relied on as being exact or complete.

NOTE:

Contact locations of information required for CDC 4.555 Stormwater and Erosion Control Ordinance is intended to not erroneously communicate that the Stormwater Facilities are Private.

ELEVATION NOTE:

Due to software limitations some elevations have had the leading digit removed. Example: a finished floor elevation of 100.00 on the plans submitted and shown as finished on Final Completion Plans, documents, Contact Engineer with any questions.

Utility Key Notes

1. Const. 6" PVC SD SLP = 0.33%
2. Const. 6" PVC SD SLP = 0.33%
3. Fiberx Conn. FLine= 100.00
4. Const. 6"x4" Fiberx Str FLine= 100.00
5. Const. 4" C.O.S.D. Rim= 100.00 FLine= 100.00
6. Const. 6" PVC SD SLP = 1.00%
7. Const. 6"x6" Fiberx Str Rim= 102.38 FLine= 100.01
8. Const. 6" PVC SD SLP = 10.00%
9. Const. 4" CO SLP = 0.00%
10. Const. ATS, Valve Inside 72"—Dia. Manhole Rim= 104.70 FLine= 100.00 FLine= 100.13
11. Const. Oil/Water Separator Rim= 101.00 Invert= 100.00 FLine= 100.00 FLine= 100.20
12. Const. 4" SD SLP = 0.00%
13. Const. 15" PVC SD FLO = 2.13%
14. Connect CB2 2000 to C Rim= 105.30 FLine= 100.43 FLine= 100.43
15. Const. 12" PVC SD SLP = 0.33%
16. Const. 6" PVC SD SLP = 2.13%
17. Const. Yard Hydrant
18. Const. 4" Reducer
19. Const. Double Check Valve Assembly Protected with Tested "Hot Box" Enclosure
20. Install Reduced Pressure Backflow Preventer with Tested "Hot Box" Enclosure (See Landscape/Irrigation Plans for Details)
21. Const. Standard 4" Water service and Clark Public Utilities Standard Details
22. Const. 1" Irrigation Conn. w/ Stop Drain Valve
23. Const. 7"x10" Enhanced Fiberx Str Rim= 102.37 FLine= 100.77
24. Const. 6"x6" Enhanced Fiberx Str w/ Internal Spoon Including 2' Diameter Rim= 102.37 FLine= 100.00
25. Existing Fire Hydrant
26. Const. 3" Vent Pipe
27. Const. Vent Riser
28. Const. 6"x6" Junction Box with Grates Fiberx 4 Quantity 100 Rim= 102.00 FLine12" = 100.01 FLine3" = 100.01 Overflow = 101.00 Orifice 1 = 0.00 ft ² / ft. = 100.01 Orifice 2 = 0.00 ft ² / ft. = 100.01 Orifice 3 = 0.00 ft ² / ft. = 100.18
29. UST Vent Riser see Arch. Plans
30. Const. 4" SD SLP = 0.00%
31. Const. 4" C.O.S.D. Rim= 104.20 FLine= 100.00
32. Const. 30" Storm Vault Manhole Fiberx with Steps Including Concrete Collar
33. Const. Storm Tank Inlet Box SLP = 0.00%
34. Const. Mail/Outlet Port
35. Const. Sky Conn. FL= 100.00
36. Abandon existing 4" water service, disconnect and remove from R.P. back to existing, Cap and cut/cap existing 4" PC valve box
37. Abandon existing 6" Fiberx, Downstream of existing 6" valve in vault, Cut/cap existing 6" Fiberx.

Fred Meyer
3800 SE 22nd Avenue
Portland, Oregon 97202
Telephone (503) 797-3509

 # 140
Vancouver, WA

NO.	DATE	DESCRIPTION
	08-13-2013	Sewer Water & Ability Permit Revisions

Designed by: JJ/Team
Drafted by: BC
Client Review
Fred Meyer Stores, Inc.
Issued for:

ANDERSON WAHLEN & ASSOCIATES
2010 North Harwood Road, Ste 140 Clty, USA 61118
811 321-3333 • AWengineering.net

Utility Plan

Fred Meyer Fuel #140 – Hazel Dell
7400 NE Highway 99
Vancouver, WA 98665

GREG C. WAHLEN
STATE OF OREGON
PROFESSIONAL ENGINEER
EXPIRES: 12-31-13

19 Dec, 2014

SHEET NO.
C3.1