FIRST QUARTER 2009 GROUNDWATER MONITORING REPORT

FORMER MOLALLA KWIK GAS 305 WEST MAIN STREET MOLALLA, OREGON DEQ FILE No.: 03-05-461

ECN PROJECT No. 05-106





December 3, 2010



ENVIRONMENTAL COMPLIANCE NORTHWEST

PO BOX 230163 PORTLAND, OR 97281 (503) 372-9760 Phone (503) 213-9980 Fax

December 3, 2010 ECN Project No. 05-106

Mr. Jason Powell. Powell Distributing Company 9125 North Burrage Portland, Oregon 97217

SUBJECT: First Quarter 2009

Groundwater Monitoring Report

Former Molalla Kwik Gas 305 West Main Street Molalla, Oregon

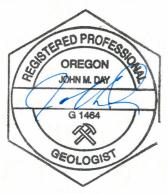
DEQ LÚST File No.: 03-05-461

Dear Mr. Powell:

Environmental Compliance Northwest, Inc., (ECN) is pleased to submit this Groundwater Monitoring Report for the above referenced facility. We hope this report meets your needs at this time. If you should require additional information, please contact us at 503-372-9760.

Sincerely,

ENVIRONMENTAL COMPLIANCE NORTHWEST, INC.



John M. Day, RG Principal Geologist President

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APPENDIX

A. Laboratory Report and Chain of Custody

1.0 INTRODUCTION

This report describes results of the first quarter 2009 groundwater monitoring and sampling activities conducted at the former Kwik Gas service station located at 305 West Main Street in Molalla, Oregon (Figure 1).

2.0 SITE DESCRIPTION

The site is located on the north side of West Main Street, approximately 100 feet west of Kennel Avenue near downtown Molalla and was formerly used as a fuel service station. The site is currently occupied by an automobile detail facility. A former service station building is located in the southeastern portion of the site. The UST cavity, formerly containing four 10,000-gallon tanks is located in the northwestern portion of the site and a former fuel dispenser island is located south of the station building. The site and surrounding area are relatively flat generally covered with gravel, with the exception of the former fuel dispenser island area, which is paved with asphalt. The locations of pertinent site features are shown on Figure 2.

3.0 BACKGROUND

The following background information was obtained from DEQ files, verbal discussions with Powell Distributing Company (Powell) personnel, and activities observed and conducted by ECN. The facility operated since at least 1977 until 2005 and consisted of a retail fueling and automotive repair facility. The former UST system consisted of three gasoline USTs and one diesel UST, located in the northwest corner of the site and one fuel dispenser island, located in the southern portion of the site (Figure 2). In April 2005, an apparent leak was detected in the underground product piping. A portion of the piping was uncovered and several small holes were observed in the piping.

In March 2005, ECN conducted initial site assessment activities consisting of drilling two hand auger borings adjacent to the fuel product piping. Subsurface soil sampling indicated the presence of petroleum hydrocarbon impact to soil in to the maximum explored depth of 8.5 feet below ground surface (bgs).

Also in March 2005, ECN conducted site assessment activities, including drilling a total of nine soil borings. Seven borings were completed adjacent and in the vanity of the underground product piping trench. Two of the borings were completed adjacent to the former fuel island. Petroleum hydrocarbons were detected in soil samples collected from each boring, with the exception of the boring completed located near the northwest corner of the former service station

building. Grab groundwater samples were collected from four of the borings. Petroleum hydrocarbons were detected in each grab groundwater sample collected.

Between September and October 2006, the UST system (consisting of four USTs and underground product piping) were decommissioned by removal. Two soil samples were collected from beneath each UST. In addition, one soil sample was collected from the south sidewall of the UST cavity and from beneath each of the three former fuel dispensers.

Petroleum hydrocarbons were not detected the soil samples collected from beneath the former USTs, with the exception of the southeastern portion of the former UST cavity, near the location where the product piping entered the cavity. Gasoline- and diesel-range hydrocarbons were detected in the soil samples collected from the former fuel dispensers (ECN, 2007).

A total of four monitoring wells (MW-1 through MW-4) were installed and two soil borings (B-101 and B-102) were completed in May 2007. The locations of the monitoring wells are shown on Figures 2 and 3. Borings B-101 and B-102 were drilled north and east of the existing building, respectively, to further define soil and groundwater impacts. Laboratory results indicated that the highest petroleum hydrocarbons were detected in the samples collected from MW-4, located adjacent to the former underground product piping. Lower petroleum hydrocarbon concentrations were detected in the other three monitoring wells, as well as in boring B-102 (ECN, 2010a).

Groundwater monitoring has been conducted at the site since the monitoring wells were installed.

4.0 FIELD ACTIVITIES

Field procedures for the first quarter 2009 groundwater monitoring and sampling were performed in accordance with DEQ guidelines. On March 26, 2009, depth to groundwater was measured and groundwater samples were collected monitoring wells MW-1 through MW-4. Prior to purging and sampling, the depth to water in the wells was measured from a permanent mark on top the well casing to the nearest 0.01-foot using an electronic water level indicator. The depth to water and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level (MSL). The survey data and historic groundwater elevation measurements collected through the first quarter 2009 monitoring event are presented in Table 1.

Prior to sample collection, monitoring wells were purged of at least three casing volumes. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The collected water sample was then transferred from the bailer into laboratory-supplied containers.

5.0 ANALYTICAL TEST METHODS

Each groundwater sample collected during the first 2009 quarter monitoring event was analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Groundwater samples collected from wells MW-3 and MW-4 were analyzed for DEQ risk-based decision making (RBDM) volatile organic compounds (VOCs) by EPA Method 8260B. In addition to BTEX, the RBDM VOCs include:; 1,2,4-trimethylbenzene (1,2,4-TMB); ethylene (EDB); ethylene dichloride (EDC); 1,3,5-trimethylbenzene (1,3,5-TMB); isopropylbenzene (IPB) methyl-tertiary butyl ether (MTBE); n-propylbenzene (NPB); and naphthalene. Each sample was also analyzed for diesel-range hydrocarbons (diesel) and lube oilrange petroleum hydrocarbons (lube oil) by Northwest Method NWTPH-Dx, and gasoline-range hydrocarbons by Northwest Method NWTPH-Gx. Select groundwater samples were analyzed for dissolved lead by EPA Method 6010 and polynuclear aromatic hydrocarbons (PAHs) by DEQ Method 8270SIM.

6.0 FINDINGS

Following are the physical and chemical results for the first quarter 2009 groundwater monitoring and sampling activities at the site. Naphthalene results are reported on both Table 1 and 2. The differing results shown in groundwater samples are a result of separate extraction methods. The concentrations from the VOC analyses are reported on the analytical results map (Figure 3).

Physical Results

The depth to water in the monitoring wells, as measured on March 26, 2009, ranged from 3.50 to 9.54 feet below the top of well casings. The groundwater flow direction was interpreted to be to the southwest with an average hydraulic gradient of approximately 0.08 feet per foot. Compared to the third quarter 2008 monitoring data, groundwater elevations in the monitoring wells increased between 1.84 and 7.87 feet.

The groundwater elevation and flow direction data for the first quarter 2009 monitoring event are shown on Figure 2.

Chemical Results

MW-1 and MW-2: Diesel-, lube oil-, and gasoline-range hydrocarbons; and BTEX constituents were not detected at or above the corresponding laboratory reporting limits.

MW-3: Diesel-range hydrocarbons (277 micrograms per liter $[\mu g/L]$), gasoline-range hydrocarbons (429 $\mu g/L$), and dissolved lead (1.1 $\mu g/L$) were detected.

MW-4: Diesel-range hydrocarbons (1,700 μg/L); lube oil-range hydrocarbons (893 μg/L); gasoline-range hydrocarbons (8,010 μg/L); benzene (480 μg/L); toluene (4.49 μg/L); ethylbenzene (356 μg/L); total xylenes (91.4 μg/L); 1,2,4-TMB (125 μg/L); 1,3,5-TMB (23.7 μg/L); IPB (87.6 μg/L); MTBE (1.80 μg/L); NPB (185 μg/L); naphthalene (119 μg/L); and dissolved lead (0.82 μg/L) were detected. The following PAHs were also detected: acenaphthene (0.138 μg/L); fluoranthene (0.138 μg/L); naphthalene (56.9 μg/L); phenanthrene (0.0984 μg/L); and pyrene (0.0591 μg/L).

The groundwater sampling results for the first quarter 2009 monitoring event are shown on Figure 3 and summarized in Tables 1 and 2.

7.0 RISK-BASED EVALUATION OVERVIEW

In 1999, the Oregon DEQ issued the *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* guidance document (DEQ, 1999). This guidance document listed Risk-Based Concentration (RBC) cleanup levels that are based on current and potential future land and water uses at a site. The RBC cleanup levels are periodically revised, the most recent being September 15, 2009.

A detailed assessment of potential exposure pathways has not yet been conducted for the site. Although a conceptual site model has not been completed, based on our current knowledge of site conditions, the potentially complete exposure pathways for groundwater include: 1) vapor intrusion into buildings (occupational); 2) volatilization to outdoor air (occupational); and 3) groundwater in an excavation for a construction or excavation worker. The potentially applicable RBCs are shown on Tables 1 and 2.

None of the groundwater samples collected during the first quarter 2009 monitoring event exceeded RBCs for the potentially complete groundwater exposure pathways.

8.0 SUMMARY AND CONCLUSIONS

The site was operated as a retail fueling facility until March 2005. An apparent petroleum hydrocarbon release from the underground product piping was reported to DEQ on March 15, 2005. The site is currently operated as automotive detailing facility and is an area of commercial development.

ECN conducted site assessment activities between March and April 2005, consisting of advancing hand soil borings, limited excavation of apparent impacted soil associated with the product piping release, and drilling a total nine soil borings. Soil and water samples collected during the site assessment activities indicated that both soil and the shallow water-bearing zone in the vicinity of the product piping were impacted by petroleum hydrocarbons.

The four USTs at the site were decommissioned by removal in October 2006. Petroleum hydrocarbon-impacted backfill material was encountered adjacent to the fill port of one the USTs. Analytical results of samples collected from beneath the former fuel dispensers indicated that residual diesel- and gasoline-range hydrocarbons were present in the southern portion of the site.

A total of four groundwater monitoring wells and two soil borings were completed at the site in May 2007. Analytical results from the groundwater samples collected indicated that petroleum hydrocarbons were present in each monitoring well, the highest levels reported were in MW-4

Based on historic groundwater flow direction data, it appears that the generalized shallow water-bearing zone flow direction varies between west-southwest and southwest.

Based on analytical results, none of groundwater samples during the first quarter 2009 sampling event exceed the potentially complete exposure pathways at the site.

9.0 REFERENCES

ECN, 2007. Site Assessment and UST Decommissioning Report, Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. April 17.

ECN, 2010a. Additional Site Assessment and Monitoring Installation Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. October 14.

ECN, 2010b. First Quarter 2008 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 1.

ECN, 2010c. Third Quarter 2008 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 2.

Oregon Department of Environmental Quality, 1999 and 2003. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites (OAR 340-122-0205 through 0360). September 29, 1999, updated September 22, 2003.

Oregon Department of Environmental Quality, 2000. UST Cleanup Manual, Cleanup Rules for Leaking Petroleum UST Systems, OAR 340-122-0205 through 340-122-0360, and Associated Documents. Oregon Department of Environmental Quality, Portland, Oregon, December.

Oregon Department of Environmental Quality, 2009. Risk-Based Concentrations for Individual Chemicals. September 15.

10.0 LIMITATIONS

Environmental Compliance Northwest, Inc., has performed the work described in this report in accordance with the generally accepted standard of care existing in the State of Oregon at the time of the assessment. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface and historical conditions applicable to the study area. More extensive studies may be used to supplement the information presented in this report. Environmental Compliance Northwest, Inc., should be notified for additional consultation if Powell Distributing Company wishes to reduce uncertainties beyond the level associated with this assessment. Our assessment of the property also may change, as new data becomes available during additional site exploration, remediation, or development.

Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the report.

No warranty, express or implied is made.

TABLES

TABLE 1 Groundwater Analytical Results - TPH-Dx, TPH-G, RBDM VOCs, and Dissolved Lead Former Kwik Gas Station 305 West Main Street Molalla, Oregon ECN Project No. 05-106



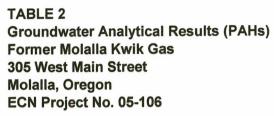
Well I.D.	Date of Sampling	Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)	Change in Elevation (Feet)	TPH- Diesel	Dx [1] Lube Oil	TPH-G [2]	B [3]	T [3]	E [3]	X [3]	1,2,4-TMB [3]	EDB [3]	EDC [3]	1,3,5-TMB [3]	IPB [3]	MTBE [3]	NPB [3]	Naph- thalene [3]	Dissolved Lead [4]	LAB
		(1 000)	(1007)	((10000000000	4						ND 4 00	5.00	0.05	ND 44 00	F 04	ND<1.00		SA
MW-1	6/5/2007	94.77	13.82	80.95		247	116	624	40.5	7.16	51.2	67.4	9.34	ND<1.00	ND<1.00	5.98	2.95	ND<1.00 ND<1.00	5.04 ND<1.00	ND<1.00		SA
	3/30/2008	94.77	8.06	86.71	5.76	ND<245	ND<491	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1111		ND~1.00		SA
	9/28/2008	94.77	17.41	77.36	-9.35	ND<243	ND<487	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/26/2009	94.77	9.54	85.23	7.87	ND<238	ND<476	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										34
A414/ O	6/5/2007	93.73	9.36	84.37		237	ND<100	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
MW-2	3/30/2008	93.73	3.35	90.38	6.01	ND<248	ND<495	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/28/2008	93.73	11.10	82.63	-7.75	ND<242	ND<483	ND<100	ND<0.300		ND<0.500	ND<1.50										SA
	3/26/2009	93.73	3.50	90.23	7.6	ND<236	ND<473	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/20/2003	30.70	0.00	00.20		.,,,																
MW-3	6/5/2007	93.44	6.65	86.79		ND<49.9	ND<49.9	363	ND<0.300	0.84	2.04	ND<1.50										SA
	3/30/2008	93.44	4.31	89.13	2.34	269	ND<485	589	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
2017	9/28/2008	93.44	6.46	86.98	-2.15	350	ND<541	787	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.00	ND<1.00	ND<1.00	ND<1.00	0.65	SA
	3/26/2009	93.44	4.62	88.82	1.84	277	ND<478	429	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.1	SA
										F 07	040	200.0	220	ND<1.00	ND<1.00	55	34.4	6.92	66.2	55.6	14	SA
MW-4	6/5/2007	94.10	7.16	86.94		2,060	3,500	7,370	326	5.97	216	336.2	239	ND<1.00	ND<1.00	43.4	92.2	11.3	261	150	2.5	SA
	3/30/2008	94.10	4.29	89.81	2.87	2,050	ND<489	15,900	985	8.93	397	343.0 167.8	386 332	ND<1.00	ND<1.00	88.3	125	ND<1.00	460	766	0.34	SA
	9/28/2008	94.10	7.69	86.41	-3.4	2,070	665	14,000	979	9.74	743 356	91.4	125	ND<1.00	ND<1.00	23.7	87.6	1.80	185	119	0.82	SA
	3/26/2009	94.10	4.54	89.56	3.15	1,700	893	8,010	480	4.49	356	91.4	125	ND~1.00	ND~1.00	25.7	07.0	1.00	100	110	0.02	
Risk-Based Conce	entrations [5]																				A.D. /	
- Volatilization to 0						>S	NE	>S	14,000	>\$	41,000	>\$	>\$	960	9,500	6,800	>\$	1,000,000	NE	16,000	NV	
(Occipational)									0.000		7 400			600	3,800	41.000	>\$	590,000	NE	10,000	NV	
- Vapor Intrusion I	Into Buildings					>S	NE	>S	2,800	>\$	7,400	>S	>\$	690	3,800	41,000	-0	030,000	,,,_	10,000		
(Occupational)	on Evenuation					>S	NE	13,000	1,700	210,000	4.400	23,000	1,700	28	630	1,400	>\$	62,000	NE	500	>\$	
- Groundwater in a						10	INC	13,000	1,700	210,000	4,400	20,000	1,7 00			,,,,,						
(Construction and	Excavation vvork	(el)																				

ABBREVIATIONS: B: Benzene

- T: Toluene
- E: Ethylbenzene
- X: Total Xylenes
 MTBE: Metyl tertiary-butyl ether
 ND: Not detected at or above the indicated laboratory reporting limit
- NE: Not established by DEQ
- >S: The groundwater RBC exceeds the solubility limit.

 NV: This chemical is considered "nonvolatile" for purposes of the exposure calculations

- Results are in micrograms per liter (µg/L)
 (1) Nortwest Method NWTPH-Dx
 (2) Northwest Method NWTPH-Gx
- EPA Method 8021B 0r 8260B
- EPA Method 6011
- Oregon Department of Environmental Quality (DEQ) Generic Risk Based Concentrations (RBCs)
- (1) (2) (3) (4) (5) SA BOLD Specialty Analytical
- Exceeds the RBC





Polynuclear Aromatic [1		Acenaphthene	Acenapthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	enzo(b)fluoranthene	enzo(g,h,l)perylene	enzo(k)fluoranthene	Chrysene	benz(a,h)anthracene	Fluoroanthene	Fluorene	deno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	LAB
Sample Identification	Sample Date	200			ш		ă	Ğ	ă		Dib			<u>Z</u>				
MW-1	6/5/2007	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	2.81	ND<0.0503	ND<0.0503	SA
MW-2	6/5/2007	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	SA
,MW-3	6/5/2007	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	0.0792	ND<0.0495	0.287	ND<0.0495	ND<0.0495	SA
	3/26/2009	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	0.211	ND<0.0479	ND<0.0479	SA
MW-4	6/5/2007	0.115	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	0.136	ND<0.0525	83.4	0.0630	ND<0.0525	SA
	3/30/2008	0.231	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	0.0868	0.482	ND<0.0482	115	0.415	0.0868	SA
	9/28/2008	0.203	0.0676	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	0.126	0.261	ND< 0.0483	94.7	0.300	0.126	SA
	3/26/2009	0.138	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	0.138	ND<0.0429	ND<0.0429	56.9	0.0984	0.0591	SA
Risk-Based Concentrat - Occ. Volatilization to - Occ. Vapor Intrusion - Groundwater in an Ex-	Outdoor Air Into buidlings cavation	>S >S >S	NE NE NE	>S >S >S	NV NV 9.1	NV NV 0.53	NV NV >S	NE NE NE	NV NV >S	NV NV >S	NV NV 0.21	NV NV >S	>S >S >S	NV NV >S	16,000 10,000 500	NE NE NE	NV NV >S	

ND not detected at or above the indicated laboratory reporting limit

SA Specialty Analytical

µg/L Micrograms per Liter

[1] [2]

DEQ Method 8270SIM
Oregon Department of Environmental Quality (DEQ) Generic Risk Based Concentrations (RBCs)

(DEQ, 2009).

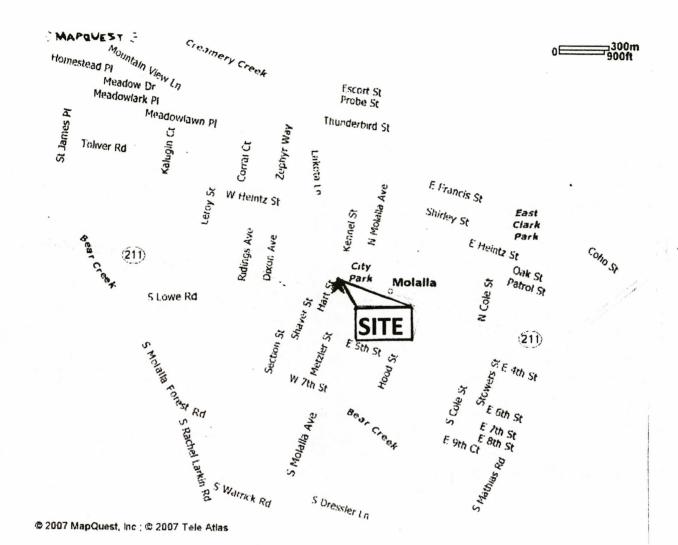
NE

NV >S

(DEW, 2009).

A Risk-Based Concentration has not been determined for this constituent
This chemical is considered "nonvolatile" for purposes of the exposure calculation
This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present. If solubility is not listed, data was not listed in Appendix D of the DEQ RBDM guidance document (DEQ, 2009).

FIGURES

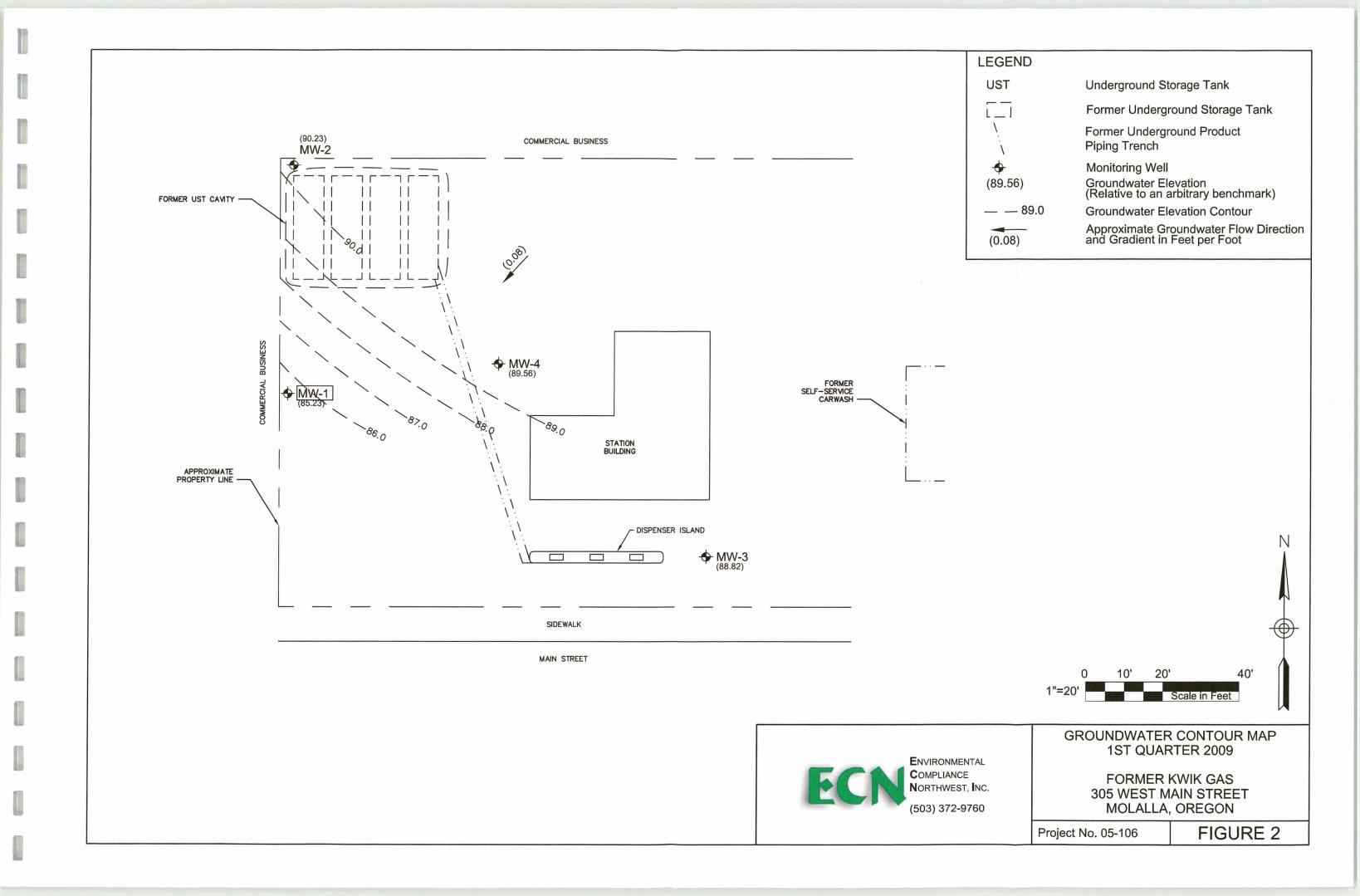


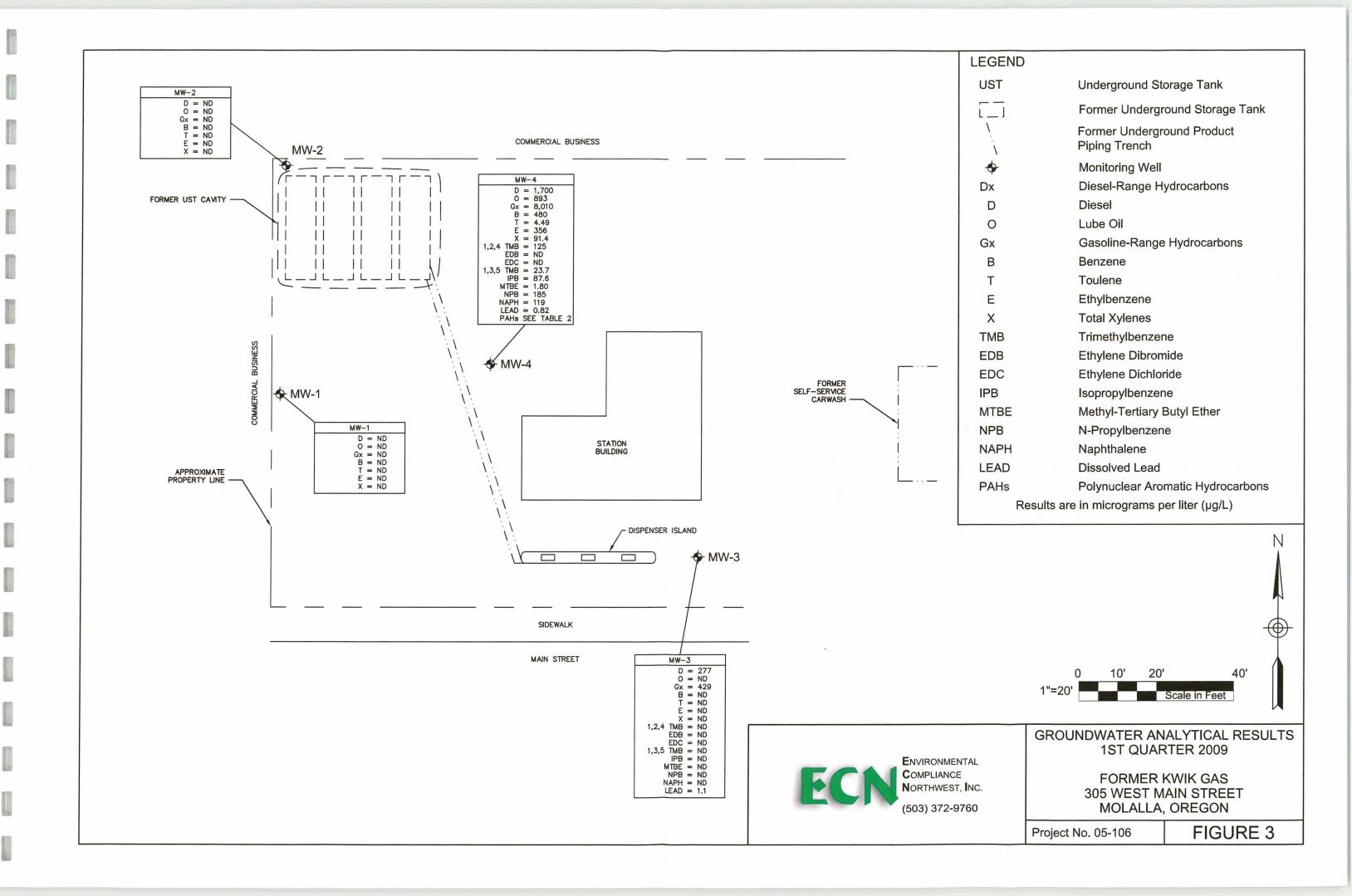
VICINITY MAP

MOLALLA KWIK GAS 305 WEST MAIN STREET MOLALLA, OREGON

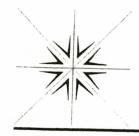
ECNW PROJ. No. 05-106

FIGURE 1





FIGURES



11711 SE Capps Road Clackamas, OR 97015 (503) 607-1331 Fax (503) 607-1336

April 20, 2009

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

TEL: (503) 372-9760 FAX (503) 213-9980

RE: Powell-Molalla

Dear John Day:

Order No.: 0903144

Specialty Analytical received 4 samples on 3/27/2009 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Project Manager

Technical Review

Date: 20-Apr-09

CLIENT: Lab Order: Environmental Compliance Northwest, Inc.

0903144

Project:

Powell-Molalla

Lab ID:

0903144-01

Client Sample ID: MW-1

Collection Date: 3/26/2009 3:10:00 PM

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed		
NWTPH-DX Diesel Lube Oil	ND ND	NWTPH-DX 0.238 0.476	mg/L mg/L	1	Analyst: jrp 3/31/2009 3/31/2009		
Surr: o-Terphenyl	62.9	50-150	%REC	1	3/31/2009		
BTEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	ND ND ND ND 105	0.300 0.500 0.500 1.50 74.8-126	µg/L µg/L µg/L µg/L %REC	1 1 1 1	Analyst: jrp 4/1/2009 4/1/2009 4/1/2009 4/1/2009		
WTPH-GX Gasoline Surr: 4-Bromofluorobenzene	ND 97.1	100 50-150	μg/L %REC	1 1	Analyst: jrp 4/1/2009 4/1/2009		

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Client Sample ID: MW-2

Lab Order:

0903144

Project: Powell-Molalla

Collection Date: 3/26/2009 2:40:00 PM

Lab ID:

0903144-02

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
NWTPH-DX Diesel	ND	NWTPH-DX 0.236	mg/L	1	Analyst: jrp 3/31/2009
Lube Oil Surr: o-Terphenyl	ND 63.4	0.473 50-150	mg/L %REC	1	3/31/2009 3/31/2009
BTEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	ND ND ND ND	0.300 0.500 0.500 1.50 74.8-126	µg/L µg/L µg/L µg/L %REC	1 1 1 1	Analyst: jrp 4/1/2009 4/1/2009 4/1/2009 4/1/2009
NWTPH-GX Gasoline Surr: 4-Bromofluorobenzene	ND 93.8	100 50-150	μg/L %REC	1	Analyst: jrp 4/1/2009 4/1/2009

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

0903144

Project:

Powell-Molalla

Lab ID:

0903144-03

Client Sample ID: MW-3

Collection Date: 3/26/2009 3:40:00 PM

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			Analyst: Im
Diesel	0.277	0.239	mg/L	1	Analyst: jrp 3/31/2009
Lube Oil	ND	0.478	mg/L	1	3/31/2009
Surr: o-Terphenyl	75.5	50-150	%REC	1	3/31/2009
NWTPH-GX		NWTPH-GX			
Gasoline	429	100	μg/L	1	Analyst: jrp 4/1/2009
Surr: 4-Bromofluorobenzene	104	50-150	%REC	1	4/1/2009
DISSOLVED METALS BY ICP/MS		SW6020			
Lead	0.65	0.10	ug/L	1	Analyst: zau
OW LEVEL BALL BY COME CAROLIN			ugre		4/1/2009 5:55:00 PM
LOW LEVEL PAH BY GC/MS OARSIM Acenaphthene		8270SIM			Analyst: kmn
	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Acenaphthylene Anthracene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Benza(a)anthracene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Benzo(a)pyrene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Benzo(b)fluoranthene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Benzo(g,h,i)perylene	ND	0.0479	µg/L	1	4/10/2009 10:01:00 PM
Benzo(k)fluoranthene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Chrysene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Dibenz(a,h)anthracene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Fluoranthene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Fluorene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Naphthalene	0.211	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Phenanthrene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Pyrene	ND	0.0479	μg/L	1	4/10/2009 10:01:00 PM
Surr: 2-Fluorobiphenyl	81.1	18.6-106	%REC	1	4/10/2009 10:01:00 PM
Surr: Nitrobenzene-d5	92.9	17-130	%REC	1	4/10/2009 10:01:00 PM
Surr: p-Terphenyl-d14	107	39.6-131	%REC	1	4/10/2009 10:01:00 PM
OLATILE ORGANICS BY GC/MS	5	SW8260B			Analyst: bda
1,2,4-Trimethylbenzene	ND	1.00	μg/L	1	4/1/2009 2:40:00 PM
1,2-Dibromoethane	ND	1.00	μg/L	1	4/1/2009 2:40:00 PM
1,2-Dichloroethane	ND	1.00	μg/L	1	4/1/2009 2:40:00 PM
1,3,5-Trimethylbenzene	ND	1.00	μg/L	1	4/1/2009 2:40:00 PM
Benzene	ND	0.300	μg/L	1	4/1/2009 2:40:00 PM
Ethylbenzene	ND	1.00	μg/L	1	4/1/2009 2:40:00 PM 4/1/2009 2:40:00 PM
sopropylbenzene	ND	1.00	μg/L	1	
n,p-Xylene	ND	2.00	μg/L	1	4/1/2009 2:40:00 PM
Methyl tert-butyl ether	ND	1.00	. •		4/1/2009 2:40:00 PM
-Propylbenzene	ND	1.00	μg/L μg/L	1	4/1/2009 2:40:00 PM 4/1/2009 2:40:00 PM

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

0903144

Project:

Powell-Molalla

Lab ID:

0903144-03

Client Sample ID: MW-3

ment Sample ID. WW-5

Collection Date: 3/26/2009 3:40:00 PM

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: bda
Naphthalene	ND	1.00		μg/L	1	4/1/2009 2:40:00 PM
o-Xylene	ND	1.00		µg/L	1	4/1/2009 2:40:00 PM
Toluene	ND	1.00		µg/L	1	4/1/2009 2:40:00 PM
Surr: 1,2-Dichloroethane-d4	92.0	72.2-129		%REC	1	4/1/2009 2:40:00 PM
Surr: 4-Bromofluorobenzene	101	73.5-125		%REC	1	4/1/2009 2:40:00 PM
Surr: Dibromofluoromethane	95.2	58.8-148		%REC	1	4/1/2009 2:40:00 PM
Surr: Toluene-d8	99.6	79.8-137		%REC	1	4/1/2009 2:40:00 PM

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

0903144

Project:

Powell-Molalla

Lab ID:

0903144-04

Client Sample ID: MW-4

Collection Date: 3/26/2009 4:10:00 PM

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	1.70	0.242	L	mg/L	1	3/31/2009
Lube Oil	0.893	0.484		mg/L	1	3/31/2009
Surr: o-Terphenyl	69.0	50-150		%REC	1	3/31/2009
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	8010	1000		µg/L	10	4/1/2009
Surr: 4-Bromofluorobenzene	107	50-150		%REC	10	4/1/2009
DISSOLVED METALS BY ICP/MS		SW6020				Analyst: zau
Lead	0.82	0.10		ug/L	1	4/1/2009 6:02:00 PM
OW LEVEL PAH BY GC/MS OARSIN	1 (8270C)	8270SIM				Analyst I
Acenaphthene	0.138	0.0492		μg/L	1	Analyst: km i 4/10/2009 10:26:00 PM
Acenaphthylene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PM
Anthracene	ND	0.0492		μg/L	1	4/10/2009 10:26:00 PN
Benz(a)anthracene	ND	0.0492		μg/L	1	4/10/2009 10:26:00 PN
Benzo(a)pyrene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PN
Benzo(b)fluoranthene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PN
Benzo(g,h,i)perylene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PM
Benzo(k)fluoranthene	ND	0.0492		μg/L	1	4/10/2009 10:26:00 PM
Chrysene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PM
Dibenz(a,h)anthracene	ND	0.0492		µg/L	1	4/10/2009 10:26:00 PM
Fluoranthene	ND	0.0492		ug/L	1	4/10/2009 10:26:00 PM
Fluorene	0.138	0.0492		ug/L	1	4/10/2009 10:26:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0492		ug/L	1	4/10/2009 10:26:00 PM
Naphthalene	56.9	0.246		ıg/L	5	4/16/2009 3:06:00 PM
Phenanthrene	0.0984	0.0492		ıg/L	1	4/10/2009 10:26:00 PM
Pyrene	0.0591	0.0492		ıg/L	1	4/10/2009 10:26:00 PM
Surr: 2-Fluorobiphenyl	55.6	18.6-106		6REC	1	4/10/2009 10:26:00 PM
Surr: Nitrobenzene-d5	74.0	17-130		6REC	1	4/10/2009 10:26:00 PM
Surr: p-Terphenyl-d14	81.5	39.6-131		6REC	1	4/10/2009 10:26:00 PM
DLATILE ORGANICS BY GC/MS	9	SW8260B				Analysts hale
1,2,4-Trimethylbenzene	125	1.00	U	g/L	1	Analyst: bda 4/1/2009 11:09:00 AM
1,2-Dibromoethane	ND	1.00		g/L	1	4/1/2009 11:09:00 AM
1,2-Dichloroethane	ND	1.00		g/L	1	4/1/2009 11:09:00 AM
,3,5-Trimethylbenzene	23.7	1.00		g/L	1	4/1/2009 11:09:00 AM
Benzene	480	1.50		g/L	5	4/1/2009 11:09:00 AM 4/1/2009 3:51:00 PM
Ethylbenzene	356	5.00		g/L	5	4/1/2009 3:51:00 PM
sopropylbenzene	87.6	1.00	-	g/L	1	4/1/2009 11:09:00 AM
n,p-Xylene	78.9	2.00		g/L	1	4/1/2009 11:09:00 AM 4/1/2009 11:09:00 AM
Methyl tert-butyl ether	1.80	1.00		3/L	1	4/1/2009 11:09:00 AM 4/1/2009 11:09:00 AM
n-Propylbenzene	185	5.00		1/L	5	4/1/2009 11:09:00 AM 4/1/2009 3:51:00 PM

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

0903144

Project:

Powell-Molalla

Lab ID:

0903144-04

Client Sample ID: MW-4

Collection Date: 3/26/2009 4:10:00 PM

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: bda
Naphthalene	119	1.00		μg/L	1	4/1/2009 11:09:00 AM
o-Xylene	12.5	1.00		μg/L	1	4/1/2009 11:09:00 AM
Toluene	4.49	1.00		μg/L	1	4/1/2009 11:09:00 AM
Surr: 1,2-Dichloroethane-d4	92.7	72.2-129		%REC	1	4/1/2009 11:09:00 AM
Surr: 4-Bromofluorobenzene	110	73.5-125		%REC	1	4/1/2009 11:09:00 AM
Surr: Dibromofluoromethane	96.9	58.8-148		%REC	1	4/1/2009 11:09:00 AM
Surr: Toluene-d8	101	79.8-137		%REC	1	4/1/2009 11:09:00 AM

Date: 20-Apr-09

CLIENT:

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: 0903129-01GMS Client ID: ZZZZZ	SampType: MS Batch ID: 22933		de: 6020_WD No: SW6020	ISS Units: ug/L		Prep Da Analysis Da	te: 3/31/20 te: 4/1/200		Run ID: ICI SeqNo: 59:	PMS_090401 2812	IC
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	58.89	1.0	50	10.37	97	70	130	0	0		
Lead	42.54	0.10	50	0	85.1	70	130	0	0		
Sample ID: 0903129-01GMSD	SampType: MSD	TestCo	de: 6020_WD	ISS Units: ug/L		Prep Da	te: 3/31/20	009	Run ID: ICI	PMS_090401	IC.
Client ID: ZZZZZ	Batch ID: 22933	Testi	No: SW6020			Analysis Da			SeqNo: 59		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	59.39	1.0	50	10.37	98	70	130	58.89	0.845	20	
Lead	42.37	0.10	50	0	84.7	70	130	42.54	0.400	20	
Sample ID: 0903129-01GDUP	SampType: DUP	TestCo	de: 6020_WD	ISS Units: ug/L	mily.	Prep Da	te: 3/31/20	09	Run ID: ICF	PMS 090401	IC
Client ID: ZZZZZ	Batch ID: 22933	Testi	No: SW6020			Analysis Da	te: 4/1/200	9	SeqNo: 59:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.57	1.0	0	0	0	0	0	10.37	1.91	20	
Lead	ND	0.10	0	0	0	0	0	0	0	20	
Sample ID: CCV	SampType: CCV	TestCo	de: 6020_WD	ISS Units: ug/L		Prep Da	te:		Run ID: ICF	PMS 090401	C
Client ID: ZZZZZ	Batch ID: 22933	Testi	No: SW6020			Analysis Da	te: 4/1/200	9	SeqNo: 592		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.64	1.0	50	0	101	90	110	0	0		
Lead	50.49	0.10	50	0	101	90	110	0	0		
Sample ID: CCV	SampType: CCV	TestCo	de: 6020_WD	ISS Units: ug/L		Prep Da	te:		Run ID: ICF	PMS 090401	ıc.
Client ID: ZZZZZ	Batch ID: 22933	Testi	No: SW6020			Analysis Da		9	SeqNo: 592		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.74	1.0	50	0	101	90	110	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Page 1 of 15

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS Units: ug/L	Prep Date:	Run ID: ICPMS_090401C		
Client ID: ZZZZZ	Batch ID: 22933	TestNo: SW6020	Analysis Date: 4/1/2009	SeqNo: 592818		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qua		
Lead	51.31	0.10 50 0	103 90 110 0	0		
Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS Units: ug/L	Prep Date:	Run ID: ICPMS_090401C		
Client ID: ZZZZZ	Batch ID: 22933	TestNo: SW6020	Analysis Date: 4/1/2009	SeqNo: 592828		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qua		
Arsenic	51.03	1.0 50 0	102 90 110 0	0		
Lead	47.01	0.10 50 0	94 90 110 0	0		
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV	TestCode: 6020_WDISS Units: ug/L	Prep Date:	Run ID: ICPMS_090401C		
Olicin ID. ZZZZZ	Batch ID: 22933	TestNo: SW6020	Analysis Date: 4/3/2009	SeqNo: 593075		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qua		
Arsenic	50.42	1.0 50 0	101 90 110 0	0		
Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS Units: ug/L	Prep Date:	Run ID: ICPMS_090401C		
Client ID: ZZZZZ	Batch ID: 22933	TestNo: SW6020	Analysis Date: 4/3/2009	SeqNo: 593080		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qua		
Arsenic	50.35	1.0 50 0	101 90 110 0	0		
Sample ID: ICV	SampType: ICV	TestCode: 6020_WDISS Units: ug/L	Prep Date:	Run ID: ICPMS_090401C		
Client ID: ZZZZZ	Batch ID: 22933	TestNo: SW6020	Analysis Date: 4/1/2009	SeqNo: 592807		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
Arsenic	51.66	1.0 50 0	103 90 110 0	0		
Lead	50.92	0.10 50 0	102 90 110 0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 2 of 15

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: ICV Client ID: ZZZZZ	SampType: ICV Batch ID: 22933	TestCode: 6020_WDISS Units: ug/L TestNo: SW6020				Prep Da Analysis Da	ite: 4/3/200	Run ID: ICPMS_090401C SeqNo: 593070			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.13	1.0	50	0 .	100	90	110	0	0		

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MB-22936 Client ID: ZZZZZ	SampType: MBLK Batch ID: 22936		de: 8260_W No: SW8260B	Units: µg/L	Analysis Date: 4/1/2009				Run ID: 5973J_090401A SeqNo: 592882		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
1,1,1,2-Tetrachloroethane	ND	1.00		A Residence						TO DEITH	Qua
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
,2,4-Trimethylbenzene	ND	1.00									
,2-Dibromo-3-chloropropane	ND	1.00									
,2-Dibromoethane	ND	1.00									
,2-Dichlorobenzene	ND	1.00									
,2-Dichloroethane	ND	1.00									
,2-Dichloropropane	ND	1.00									
,3,5-Trimethylbenzene	ND	1.00									
,3-Dichlorobenzene	ND	1.00									
,3-Dichloropropane	ND	1.00									
,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
-Chlorotoluene	ND	1.00									
l-Isopropyltoluene	ND	1.00									
-Methyl-2-pentanone	ND	20.0									
Acetone	5.68										
Acrylonitrile	ND	50.0									J
Benzene	ND	5.00									
Bromobenzene	ND	0.300									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MB-22936 Client ID: ZZZZZ Analyte	SampType: MBLK Batch ID: 22936		de: 8260_W No: SW8260B	Units: µg/L			ate: 4/1/20		Run ID: 59		A
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	Highl imit	RPD Ref Val			
Bromochloromethane	ND	1.00					- III	THE INC.	%RPD	RPDLimit	Qua
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND										
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane		1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	0.12	1.00									
sopropylbenzene	ND	1.00									J
n,p-Xylene	ND	1.00									
Methyl tert-butyl ether	ND	2.00									
Methylene chloride	ND	1.00									
-Butylbenzene	1.51	20.0									
	ND	1.00									J
-Propylbenzene	ND	1.00									
laphthalene	ND	1.00									
-Xylene	ND	1.00									
ec-Butylbenzene	ND	1.00									
tyrene	ND	1.00									
ert-Butylbenzene	ND	1.00									
etrachloroethene	ND	1.00									
oluene	ND	1.00									
ans-1,2-Dichloroethene	ND										
	140	1.00									

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 5 of 15

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MB-22936 Client ID: ZZZZZ	SampType: Batch ID:			de: 8260_W No: SW8260B	Units: µg/L		Prep Dat Analysis Dat	e: 4/1/200 e: 4/1/200		Run ID: 59 SeqNo: 59	73J_090401 2882	Α
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene		ND	1.00									
Trichloroethene		ND	1.00									
Trichlorofluoromethane		ND	1.00									
Vinyl chloride		ND	1.00									
Surr: 1,2-Dichloroethane-d4		86.81	0	100	0	86.8	72.2	129	0			
Surr: 4-Bromofluorobenzene		106.6	0	100	0	107	73.5	125	0	0		
Surr: Dibromofluoromethane		88.03	0	100	0	88	58.8	148	0	0		
Surr: Toluene-d8		106.7	0	100	0	107	79.8	137	0	0		
Sample ID: LCS-22936	SampType: I	LCS	TestCo	de: 8260_W	Units: µg/L		Prep Date	e: 4/1/200	9	Pun ID: FO	72 1 000404	
Client ID: ZZZZZ	Batch ID:	22936		No: SW8260B			Analysis Date			SeqNo: 59	73J_090401 <i>/</i> 2881	`
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		42.21	1.00	40	0	106	69.9	130	0			
Benzene		39.8	0.300	40	0	99.5	77.9	125	0	0		
Chlorobenzene		36.34	1.00	40	0	90.8	82.5	114	0	0		
Toluene		35.74	1.00	40	0	89.4	74.6	119	0	0		
Trichloroethene		39.92	1.00	40	0	99.8	74.7	125	0	0		
Sample ID: 0903143-03AMS	SampType: I	MS	TestCod	de: 8260_W	Units: µg/L		Prep Date	e: 4/1/200	9	Pup ID: 50	72 000404	
Client ID: ZZZZZ	Batch ID:	22936		lo: SW8260B			Analysis Date			SeqNo: 59	73J_090401 <i>A</i> 2900	•
Analyte	9.1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		30.7	1.00	40	0	76.8	51.4				- DEMINIC	Qua
Benzene		38.97	0.300	40	1.3	94.2	71.5	176	0	0		
Chlorobenzene		33.91	1.00	40	0	84.8	71.5	118	0	0		
Toluene		32.39	1.00	40	0	81		114	0	0		
Trichloroethene		38.69	1.00	40	0	96.7	79.6 73.6	121 120	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 0903143-03AMSD Client ID: ZZZZZ	SampType: Batch ID:			de: 8260_W No: SW8260B	Units: µg/L		Prep Da Analysis Da	te: 4/1/200 te: 4/2/200		Run ID: 59: SeqNo: 59:	73J_090401 <i>A</i> 2901	4
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		31.46	1.00	40	0	78.7	51.4	176	30.7	2.45	20	
Benzene		40.99	0.300	40	1.3	99.2	71.5	118	38.97	5.05	20	
Chlorobenzene		36.32	1.00	40	0	90.8	79.8	114	33.91	6.86	20	
Toluene		34.92	1.00	40	0	87.3	79.6	121	32.39	7.52	20	
Trichloroethene		38.93	1.00	40	0	97.3	73.6	120	38.69	0.618	20	
Sample ID: CCV-22936	SampType:	ccv	TestCo	de: 8260_W	Units: µg/L		Prep Da	te:		Pun ID: 50	73J_090401 <i>A</i>	
Client ID: ZZZZZ	Batch ID:	22936		No: SW8260B			Analysis Da		9	SeqNo: 592		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		42.24	1.00	40	0	106	80	120	0	0		
1,2-Dichloropropane		40.2	1.00	40	0	100	80	120	0	0		
Chloroform		43.62	1.00	40	0	109	80	120	0			
Ethylbenzene		35.7	1.00	40	0	89.2	80	120	0	0		
Toluene		35.71	1.00	40	0	89.3	80	120	0	0		
Vinyl chloride		43.23	1.00	40	0	108	80	120	0	0		
Sample ID: CCV-22936	SampType:	ccv	TestCo	de: 8260_W	Units: µg/L		Prep Da	te:		Pun ID: 503	73J_090401 <i>A</i>	
Client ID: ZZZZZ	Batch ID:	22936		No: SW8260B			Analysis Da		9	SeqNo: 592		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		41.42	1.00	40	0	104	80	120	0			
1,2-Dichloropropane		44.92	1.00	40	0	112	80	120	0	0		
Chloroform		47.81	1.00	40	0	120	80	120		0		
Ethylbenzene		39.4	1.00	40	0	98.5	80		0	0		
Toluene		39.49	1.00	40	0	98.7		120	0	0		
Vinyl chloride		45.9	1.00	40	0	115	80 80	120 120	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_W

Sample ID: MB-22938 Client ID: ZZZZZ	SampType: MBLK Batch ID: 22938		ode: BTEXRBO No: SW8021E	C_W Units: µg/L			ate: 4/1/20		Run ID: Go SeqNo: 59	C-I_090401A 2708	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	ND	0.300			1						
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: 4-Bromofluorobenzene	104	1.00	100	0	104	74.8	126	0	0		
Sample ID: LCS-22938	SampType: LCS	TestCo	de: BTEXRBO	C_W Units: µg/L		Pren Da	ate: 4/1/200				
Client ID: ZZZZZ	Batch ID: 22938		No: SW8021B							-I_090401A	
			01100210			Analysis Da	ate: 4/1/200)9	SeqNo: 59	2707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	49.85	0.300	50	0	99.7	75.8	113	0	0		
Toluene	56.5	0.500	50	0	113	77	116	0	0		
Ethylbenzene	56.37	0.500	50	0	113	76.6	118	0	0		
Xylenes, Total	170.6	1.50	150	0	114	76.7	118	0	0		
Sample ID: 0903143-01AMS	SampType: MS	TestCo	de: BTEXRBO	_W Units: μg/L		Pren Da	ite: 4/1/200	19	Pup ID: CC		
Client ID: ZZZZZ	Batch ID: 22938		No: SW8021B				ite: 4/1/200		SeqNo: 59	-I_090401A	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC						
Benzene	23.31	0.300						RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	24.19	0.500	25	0	93.2	67.8	118	0	0		
Ethylbenzene	24.24		25	0	96.8	74.7	117	0	0		
Xylenes, Total	73.47	0.500	25	0	97	74.5	115	0	0		
		1.50	75	0	98	76.8	120	0	0		
Sample ID: 0903143-01AMSD	SampType: MSD	TestCo	de: BTEXRBO	_W Units: µg/L		Prep Da	te: 4/1/200	9	Run ID: GC	1 000404 4	
Client ID: ZZZZZ	Batch ID: 22938		No: SW8021B				te: 4/1/200				
Analyte	Result			004.0					SeqNo: 592	2711	
Benzene		PQL		SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	23.81	0.300	25	0	95.2	67.8	118	23.31	2.12	20	
	24.5	0.500	25	0	98	74.7	117	24.19	1.27	20	
Ethylbenzene	24.59	0.500	25	0	98.4	74.5	115	24.24	1.43	20	

J - Analyte detected below quantitation limits

e Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_W

0 1 10											
Sample ID: 0903143-01AMSD Client ID: ZZZZZ	SampType: MSD Batch ID: 22938		de: BTEXRBO No: SW8021B	C_W Units: µg/L		Prep Da Analysis Da	ite: 4/1/200		Run ID: GC SeqNo: 59	C-I_090401A 2711	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	74.96	1.50	75	0	99.9	76.8	120	73.47	2.01	20	
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 22938		de: BTEXRBO	C_W Units: µg/L	Prep Date: Analysis Date: 4/1/2009				Run ID: GC-I_090401A SeqNo: 592706		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total	49.85 56.5 56.37 170.6	0.300 0.500 0.500 1.50	50 50 50 150	0 0 0	99.7 113 113 114	85 85 85 85	115 115 115 115	0 0	0 0 0		

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_W

Sample ID: MB-22921 Client ID: ZZZZZ Analyte	SampType: Batch ID:		Testi	de: NWTPHE	Dx	mg/L		Prep Da Analysis Da	ate: 3/30/ ate: 3/31/		Run ID: G SeqNo: 5:	C-M_090331 92458	A
Diesel			PQL	SPK value	SPK Ref \	/al	%REC	LowLimit	HighLimi	t RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil Surr: o-Terphenyl		0.1012 0.2557 0.4451	0.250 0.500 0	0.5									J
Sample ID: LCS-22921	CompTune	100				0	89	50	150	0	0		
Client ID: ZZZZZ	SampType: Batch ID:			de: NWTPHD No: NWTPH-I	1077	mg/L		Prep Da Analysis Da	ate: 3/30/2			C-M_090331	A
Analyte		Result	PQL	SPK value	SPK Ref V	'al	%REC			RPD Ref Val	SeqNo: 59		
Diesel Lube Oil		2.393 2.06	0.250 0.500	2.5 2.5		0	95.7	60.7	121		%RPD 0	RPDLimit	Qual
Sample ID: LCSD-22921	CompT					0	82.4	64	126	0	0		
Client ID: ZZZZZ	SampType: Batch ID:			le: NWTPHD		mg/L		Prep Da Analysis Da				C-M_090331	
Analyte		Result	PQL	SPK value	SPK Ref V	al d					SeqNo: 59	2460	
Diesel Lube Oil		2.181	0.250	2.5		0	%REC 87.2	60.7	HighLimit 121	RPD Ref Val	%RPD		Qual
		2.124	0.500	2.5		0	85	64	126	2.393	9.29 3.04	20 20	
ample ID: CCV	SampType: Batch ID:			e: NWTPHD:		mg/L		Prep Dat			Run ID: GC	-M_090331A	
nalyte		Result	PQL		SPK Ref Va	al 9	%REC	Analysis Dat			SeqNo: 59		
iesel ube Oil		16.1	0.250	15		0	107			RPD Ref Val	%RPD	RPDLimit	Qual
		8.226	0.500	7.5		0	110	85 85	115 115	0	0		
ample ID: CCV lient ID: ZZZZZ	SampType: (Batch ID: 2			e: NWTPHD)	The second second second	mg/L		Prep Date	e:		Run ID: GC		
nalyte		Result	PQL		SPK Ref Va			Analysis Date			SeqNo: 592	476	
iesel		21.72	0.250	20		0	6REC 109			RPD Ref Val		RPDLimit	Qual
							109	85	115	0	0		

J - Analyte detected below quantitation limits

S'- Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_W

Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 22921		de: NWTPHD) No: NWTPH-D	_		Prep Da Analysis Da		09	Run ID: GC SeqNo: 592	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	10.24	0.500	10	0	102	85	115	0	0		

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-22939 Client ID: ZZZZZ	SampType: MBLK Batch ID: 22939	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: 4/1/2009 Analysis Date: 4/1/2009	Run ID: GC-I_090401B SeqNo: 592718
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline Surr: 4-Bromofluorobenzene	ND 99.18	100 0 100 0	99.2 50 150 0	0
Sample ID: LCS-22939 Client ID: ZZZZZ	SampType: LCS Batch ID: 22939	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: 4/1/2009 Analysis Date: 4/1/2009	Run ID: GC-I_090401B SeqNo: 592717
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	2501	100 2500 0	100 74.4 128 0	0
Sample ID: 0903143-01ADUP Client ID: ZZZZZ	SampType: DUP Batch ID: 22939	TestCode: NWTPHGX _ Units: μg/L TestNo: NWTPH-G x	Prep Date: 4/1/2009 Analysis Date: 4/1/2009	Run ID: GC-I_090401B SeqNo: 592720
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	ND	100 0 0	0 0 0 0	0 20
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 22939	TestCode: NWTPHGX Units: μg/L TestNo: NWTPH-Gx	Prep Date: Analysis Date: 4/1/2009	Run ID: GC-I_090401B SeqNo: 592729
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	2914	100 3000 0	97.2 80 120 0	0
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 22939	TestCode: NWTPHGX Units: μg/L TestNo: NWTPH-Gx	Prep Date: Analysis Date: 4/2/2009	Run ID: GC-I_090401B SeqNo: 592893
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	2542	100 2500 0	102 80 120 0	0

Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: CCV Client ID: ZZZZZ			TestCode: NWTPHGX_ Units: μg/L TestNo: NWTPH-Gx			Prep Date: Analysis Date: 4/2/2009				Run ID: GC-I_090401B SeqNo: 592897		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Gasoline	3040	100	3000	0	101	80	120	0	0			

CLIENT: Environmental Compliance Northwest, Inc.

Work Order: 0903144

Project: Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: MB-22985	SampType: MBLK	TestCod	e: PAHLL_W	Units: µg/L			e: 4/8/2009			/3P_090410A	4
Client ID: ZZZZZ	Batch ID: 22985	TestN	o: 8270SIM		,	Analysis Date	e: 4/10/200	09	SeqNo: 595	205	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.02	0.0500									J
Acenaphthylene	ND	0.0500									
Anthracene	ND	0.0500									
Benz(a)anthracene	0.01	0.0500									J
Benzo(a)pyrene	0.01	0.0500									J
Benzo(b)fluoranthene	0.01	0.0500									J
Benzo(g,h,i)perylene	0.03	0.0500									J
Benzo(k)fluoranthene	0.01	0.0500									J
Chrysene	0.02	0.0500									J
Dibenz(a,h)anthracene	0.03	0.0500									J
Fluoranthene	0.01	0.0500									J
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	0.03	0.0500									J
Naphthalene	0.01	0.0500									J
Phenanthrene	0.01	0.0500									J
Pyrene	0.01	0.0500									J
Surr: 2-Fluorobiphenyl	78.33	1.00	100	0	78.3	18.6	106	0	0		
Surr: Nitrobenzene-d5	90.41	1.00	100	0	90.4	17	130	0	0		
Surr: p-Terphenyl-d14	101.7	1.00	100	0	102	39.6	131	0	0		
Sample ID: LCS-22985	SampType: LCS	TestCo	de: PAHLL_W	Units: µg/L		Prep Da	te: 4/8/200	9	Run ID: 59	73P_090410	Α
Client ID: ZZZZZ	Batch ID: 22985	Test	No: 8270SIM			Analysis Da	te: 4/10/20	009	SeqNo: 59	5206	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qu
Acenaphthene	2.41	0.0500	5	0.02	47.8	35.1	100	0	0		
Benzo(g,h,i)perylene	2.8	0.0500	5	0.03	55.4	20.8	120	0	0		
Chrysene	3.05	0.0500	5	0.02	60.6	39.1	119	0	0		
Naphthalene	2.09	0.0500	5	0.01	41.6	25.6	106	0	0		
Phenanthrene	2.03	0.0500	5	0.01	40.4	38.1	106	0	0		
Pyrene	2.84	0.0500	5	0.01	56.6	41.3	118	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

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Environmental Compliance Northwest, Inc.

Work Order:

0903144

Project:

Powell-Molalla

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: LCSD-22985	SampType: LCSD	TestCo	de: PAHLL_W	Units: µg/L		Prep Da	te: 4/8/200	9	Run ID: 50	73P_090410	
Client ID: ZZZZZ	Batch ID: 22985	Test	No: 8270SIM			Analysis Da					4
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC				SeqNo: 59		
Acenaphthene	2.44					LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	2.96	0.0500	5	0.02	48.4	35.1	100	2.41	1.24	20	
Chrysene	3.13	0.0500	5	0.03	58.6	20.8	120	2.8	5.56	20	
Naphthalene		0.0500	5	0.02	62.2	39.1	119	3.05	2.59	20	
Phenanthrene	2.16	0.0500	5	0.01	43	25.6	106	2.09	3.29	20	
Pyrene	2.05	0.0500	5	0.01	40.8	38.1	106	2.03	0.980	20	
- yiele	2.89	0.0500	5	0.01	57.6	41.3	118	2.84	1.75	20	
Sample ID: CCV	SampType: CCV	TestCo	de: PAHLL_W	Units: µg/L		Prep Dat	to:		D 10 111		
Client ID: ZZZZZ	Batch ID: 22985		No: 8270SIM	onno. pg/L		Land Control of the least			Run ID: 597		1
	2200	1630	10. 62/USINI			Analysis Dat	e: 4/10/20	09	SeqNo: 595	192	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	5.02	0.0500	5	0	100	70				TO DEITH	Quai
Acenaphthylene	4.88	0.0500	5	0	97.6	70	130	0	0		
Anthracene	5.67	0.0500	5	0	113		130	0	0		
Benz(a)anthracene	5.04	0.0500	5	0	101	70	130	0	0		
Benzo(a)pyrene	5.2	0.0500	5	0	101	70	130	0	0		
Benzo(b)fluoranthene	5.08	0.0500	5	0	102	70	130	0	0		
Benzo(g,h,i)perylene	4.91	0.0500	5	0	98.2	70	130	0	0		
Benzo(k)fluoranthene	5.93	0.0500	5	0		70	130	0	0		
Chrysene	5.38	0.0500	5	0	119	70	130	0	0		
Dibenz(a,h)anthracene	5.02	0.0500	5		108	70	130	0	0		
Fluoranthene	5.32	0.0500	5	0	100	70	130	0	0		
Fluorene	4.89	0.0500	5	0	106	70	130	0	0		
ndeno(1,2,3-cd)pyrene	5.1	0.0500	5	0	97.8	70	130	0	0		
Naphthalene	4.35	0.0500	5	0	102	70	130	0	0		
Phenanthrene	3.8	0.0500		0	87	70	130	0	0		
Pyrene	4.81		5	0	76	70	130	0	0		
	4.01	0.0500	5	0	96.2	70	130	0	0		

KEY TO FLAGS

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- H Sample was analyzed outside recommended hold time.
- HT At clients request, sample was analyzed outside recommended hold time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- N Gasoline result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- P Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits, post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

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Specialty Analytical 11711 SE Capps Road

Specialty Analytical 11711 SE Capps Road Clackamas, OR 97015 Phone: 503-607-1331 Fax: 503-607-1336 Collected By: Signature Printed) 	Compa Addres Phone Project	ect No.	P 3 7 7 0 S Local	D 9	N30 76	× 0 6 ×	2 3 72 Proje	Day 0 163 97281 Fax 2139 ct Name Pare Other P.O.	123 LQ - W	no Ialk
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