SITE ASSESSMENT AND UST DECOMMISSIONING REPORT

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

ECNW PROJECT No. 05-106

April 17, 2007

Environmental Compliance Northwest

April 17, 2007 ECNW Project No. 05-106

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

SUBJECT: Site Assessment and UST

Decommissioning Report

Molalla Kwik Gas 305 West Main Street Molalla, Oregon

DEQ LUST File No.: 03-05-461

Dear Mr. Powell:

Environmental Compliance Northwest, Inc., (ECNW) is pleased to submit this Site Assessment and UST Decommissioning 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, R.G. Senior Geologist President

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 SITE DESCRIPTION	1
3.0 BACKGROUND	1
4.0 FIELD ACTIVITIES	
4.1 INITIAL SITE ASSESSMENT ACTIVITIES 4.2 ADDITIONAL SITE ASSESSMENT ACTIVITIES 4.3 DIRECT-PUSH BORING SITE ASSESSMENT ACTIVITIES 4.4 UST DECOMMISSIONING ACTIVITIES 4.4.1 UST Decommissioning Soil Sampling 4.4.2 Fuel Dispenser Island Soil Sampling	2 2 3
5.0 ANALYTICAL TEST METHODS	
5.1 SITE ASSESSMENT ANALYTICAL TEST METHODS 5.1.1 Soil Samples 5.1.2 Grab Groundwater Samples 5.2 UST DECOMMISSIONING ANALYTICAL TEST METHODS	4
6.0 FINDINGS	
6.1 Physical Results	5 5 7
7.0 REGULATORY CLEANUP LEVELS	8
7.1 OREGON SOIL MATRIX CLEANUP LEVEL	8 9
8.0 SUMMARY AND CONCLUSIONS	. 10
9.0 REFERENCES	. 11
10.0 LIMITATIONS	. 11

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TABLE OF CONTENTS (continued)

TABLES

- 1. Soil Analytical Results-HCID, TPH, and BTEX, Site Assessment
- 2. Groundwater Analytical Results TPH and BTEX, Site Assessment
- 3. Groundwater Analytical Results PAHs, Site Assessment
- 4. Soil Analytical Results HCID, TPH, and RBDM VOCs, UST Decommissioning

FIGURES

- 1. Vicinity Map
- 2. Site Plan
- 3. Analytical Results Map-Site Assessment
- 4. Analytical Results Map-UST Decommissioning

APPENDICES

- A. Boring Logs and Well Construction Details
- B. UST Decommissioning Report
- C. Laboratory Reports and Chain of Custody

1.0 INTRODUCTION

This report describes the site assessment and underground storage tank (UST) decommissioning activities conducted between March 2005 and October 2006 at the Molalla Kwik Gas site located at 305 West Main Street in Molalla, Oregon (Figure 1). The site activities were performed to further define the extent of petroleum hydrocarbon impacts and document UST activities at the site.

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 repair facility. A 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 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 and verbal discussions with Powell Distributing Company (Powell) personnel. The facility has operated since at least 1977 and consisted of a retail fueling and automotive repair facility. The UST system consisted of four USTs (three gasoline and one diesel), 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.

4.0 FIELD ACTIVITIES

The following sections describe the additional site assessment and UST decommissioning activities, laboratory test methods, and findings.

4.1 INITIAL SITE ASSESSMENT ACTIVITIES

On March 15, 2005, ECNW conducted initial site assessment activities consisting of drilling two hand auger borings (PL-1 and PL-2) adjacent to the product piping at the locations shown on Figure 2. Soil samples were collected at depths of 3 feet below the ground surface (bgs), 5 feet bgs, and 2.75 feet bgs (samples PL-1-3', PL-1-5', and PL-2-2.75', respectively). Refusal was encountered in boring PL-1 at 5 feet bgs and 2.75' in boring PL-2). Visual indications of

petroleum hydrocarbon impact were observed in both borings. The samples were placed in an ice-chilled cooler and transported under chain-of-custody documentation to Specialty Analytical in Tualatin, Oregon.

4.2 ADDITIONAL SITE ASSESSMENT ACTIVITIES

On April 12, 2005, additional site assessment and interim remediation activities were performed. The majority of underground product piping was removed and approximately 15 cubic yards of apparent impacted soil in the vicinity of the former piping were excavated and stockpiled onsite. Two soil samples were collected from the bottom of the excavations (samples S1-8.5' [near PL-2] and S2-6' [near PL-1]). The samples were placed in an ice-chilled cooler and transported under chain-of-custody documentation to Specialty Analytical in Tualatin, Oregon.

4.3 DIRECT-PUSH BORING SITE ASSESSMENT ACTIVITIES

On April 26, 2005, a total of nine borings (B-1 through B-9) were drilled at the site by Cascade Drilling, based in Portland, Oregon, using direct-push drilling technology. The drilling was conducted to further define the extent of petroleum hydrocarbon impact to soil associated with the former underground product piping leak. In addition, shallow groundwater samples were collected to assess potential impact to the shallow water-bearing zone.

Borings B-1 through B-6 and B-9 were completed in the vicinity of the former product piping west and northwest of the station building and borings B-7 and B-8 were completed near the fuel dispenser island in the southern portion of the site. Soil boring locations are shown on Figure 3. Soil borings were drilled and sampled to a maximum depth of approximately 13 feet bgs. Drilling refusal was encountered in several borings at depths between 11 and 13 feet bgs. Boring logs are presented in Appendix A.

Soil was continuously collected in the direct-push borings and samples were collected at maximum intervals of 5-feet, beginning at ground surface, for field screening and potential laboratory analysis using a macro-core sampler. Generally, the soil samples with the highest field indications of impact (i.e., odor and staining) and a near-surface soil sample collected from a boring adjacent to the station building (i.e., from boring B-4) were submitted for laboratory analysis. The samples were placed in an ice-chilled cooler and transported under chain-of-custody documentation to Specialty Analytical in Tualatin, Oregon.

Grab groundwater samples were collected from borings B-1, B-2, B-3, and B-9. The grab groundwater samples were collected using a peristaltic pump with new, disposable tubing changed between the borings. The grab groundwater samples were placed into an ice-chilled cooler and transported to Specialty Analytical following chain-of-custody protocols.

4.4 UST DECOMMISSIONING ACTIVITIES

The four USTs were decommissioned by removal between September 24 and October 6, 2006 by NW Tank Lining and Inspection, based in Vancouver, Washington. The tanks were transported to Cherry City Metals in Salem, Oregon for recycling (receipts are included in Appendix B. The remaining fuel product and vent lines, and three fuel dispensers associated with the USTs also were removed. The USTs were observed to be lined, single-wall, steel tanks. The tops of the USTs were encountered at approximately 4 feet bgs. Minor surficial corrosion and pitting was observed on the USTs, however, no holes were visible. Copies of the Underground Storage Tank Decommissioning/Change-In-Service Report and the Underground Storage Tank Decommissioning/Change-In-Service Checklist are provided in Appendix B.

Groundwater was not encountered in the UST excavation at the time of decommissioning. Native soil observed in the UST excavation generally consisted on silty gravel and gravelly sand. Petroleum hydrocarbon odors and staining were observed in the UST backfill soil at the south end of Tank number 3 (fill end of the second UST from the west). A soil sample of the apparent impacted backfill material was collected and submitted to Specialty Analytical for petroleum analysis for disposal purposes. Isolated soil staining also was observed at approximately 3-feet bgs in the southeastern portion of the UST cavity where the product piping entered the cavity. Apparent impacted backfill and native soil was removed during decommissioning and stockpiled onsite and combined with the soil generated during previous site assessment activities for future disposal. The stockpiled soil (40.36 tons) was transported to Hillsboro Landfill for disposal. The disposal receipts are included in Appendix B.

4.4.1 UST Decommissioning Soil Sampling

In accordance with Oregon Department of Environmental Quality (DEQ) guidelines, soil samples were collected for laboratory analysis from beneath the ends of each UST location (samples T1-N-13', T1-S-13', T2-N-13', T2-S-13.5', T3-N-13', T3-S-13', T4-N-13', T4-S-13') with the aid of the trackhoe used to remove the USTs. Precautions were taken while collecting soil samples not to take soil that was in contact with the trackhoe bucket. A soil sample also was collected from native soil at the south sidewall between the second and third tanks from the west, at a depth of approximately 7 feet bgs (sample T2/3-SSW-7'), to confirm the removal of impacted soil.

4.4.2 Fuel Dispenser Island Soil Sampling

Soil samples were collected from beneath each of the former fuel dispensers at a depth of approximately 2 feet bgs (samples W-Disp-2', M-Disp-2', E-Disp-2') using a hand auger. Soil sample locations are shown on Figure 4.

5.0 ANALYTICAL TEST METHODS

The analytical test methods used for the site assessment and UST decommissioning activities are discussed below.

5.1 SITE ASSESSMENT ANALYTICAL TEST METHODS

5.1.1 Soil Samples

Select soil samples were analyzed for hydrocarbon identification by Northwest Method NWTPH-HCID; gasoline-range hydrocarbons (gasoline) by Northwest Method NWTPH-Gx; diesel-range hydrocarbons (diesel) through lube oil-range (lube oil) petroleum hydrocarbons by Northwest Method NWTPH-Dx; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B.

5.1.2 Grab Groundwater Samples

Grab Groundwater samples from borings B-1, B-2, B-3, and B-9 were analyzed for gasoline-range hydrocarbons by Northwest Method NWTPH-Gx; BTEX by EPA Method 8021B; and polynuclear aromatic hydrocarbons (PAHs) by DEQ Method 8270SIM. Grab groundwater samples collected from borings B-3 and B-9 were also analyzed for diesel- through lube oil-range hydrocarbons by Northwest Method NWTPH-Dx.

5.2 UST DECOMMISSIONING ANALYTICAL TEST METHODS

Each soil sample collected during the UST system decommissioning activities was analyzed for gasoline-range hydrocarbons by Northwest Method NWTPH-Gx; diesel- through lube oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx; and BTEX by EPA Method 8021B. The soil sample collected from apparent impact backfill material (T-3 backfill) was also analyzed for hydrocarbon identification by Northwest Method NWTPH-HCID and lead by EPA Method 6010. One sample (T1-S-13') was analyzed for the DEQ risk-based decision making (RBDM) volatile organic compounds (VOCs) by EPA Method 8260B. In addition to BTEX, the remaining VOCs include: 1,2,4-trimethylbenzene (1,2,4-TMB); ethylene dibromide (EDB); ethylene dichloride (EDC); 1,3,5-TMB; isopropylbenzene (IPB); methyl tertiary-butyl ether (MTBE); n-propylbenzene (NPB); and naphthalene.

6.0 FINDINGS

The findings of the site assessment and UST decommissioning activities are described below.

6.1 PHYSICAL RESULTS

Apparent native soil encountered during the site assessment and UST decommissioning activities consisted predominantly of silty/sandy gravel to silty/gravelly sand. During the site assessment, drilling refusal was encountered in most borings at depths of approximately 11 to 13 feet bgs, where a hard, tuffaceous material was observed.

A shallow water-bearing zone was encountered at depths ranging from 6 to 9 feet bgs. Boring logs are included in Appendix A.

6.2 ANALYTICAL RESULTS-SITE ASSESSMENT

The analytical findings of the additional site assessment and monitoring well installation activities, including soil and grab groundwater sampling, are described below. The soil analytical results are summarized in Table 1 and the grab groundwater sample results are shown in Tables 2 and 4. A summary of the results of the additional site assessment are also presented on Figure 3. The laboratory data reports are provided in Appendix C.

6.2.1 Soil Analytical Results

Field Results

Field screening results (visual and olfactory) indicated that soil collected from the soil-groundwater interface (approximately 11 to 13 feet bgs) indicated the presence of petroleum hydrocarbons in borings DP-1, DP-3, DP-4, DP-6, and DP-7. A weak petroleum hydrocarbon odor was observed in soil samples collected from approximately 7 feet bgs in borings DP-4 and DP-7.

Laboratory Results

<u>PL-1-3'</u> Gasoline-range hydrocarbons were detected in the HCID sample. Follow-up analyses follow: Gasoline (1,100 milligrams per kilogram [mg/kg/]), benzene (16.7 mg/kg), toluene (102 mg/kg), ethylbenzene (29 mg/kg), and total xylenes (146 mg/kg) were detected.

<u>PL-1-5'</u> Gasoline (8,370 mg/kg/), benzene (85.8 mg/kg), toluene (664 mg/kg), ethylbenzene (169 mg/kg), and total xylenes (901 mg/kg) were detected.

<u>PL-2-2.75'</u> Gasoline (5,730 mg/kg/), benzene (12.6 mg/kg), toluene (97.2 mg/kg), ethylbenzene (70.1 mg/kg), and total xylenes (541 mg/kg) were detected.

- <u>S1-8.5'</u> Gasoline (3,120 mg/kg/), benzene (5.91 mg/kg), toluene (3.98 mg/kg), ethylbenzene (48.7 mg/kg), and total xylenes (11.3 mg/kg) were detected.
- <u>S2-6'</u> Gasoline- and diesel-range hydrocarbons were detected in the HCID sample. Follow-up analyses follow: Diesel (32.6 mg/kg) and gasoline (530 mg/kg/) were detected. BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-1-10'** Diesel (67 mg/kg), gasoline (1,120 mg/kg), toluene (7.81 mg/kg), ethylbenzene (11.2 mg/kg), and total xylenes (54.4 mg/kg) were detected. Benzene was not detected at or above the laboratory reporting limit.
- **B-2-7'** Gasoline (1,050 mg/kg/), benzene (2.1 mg/kg), toluene (2.79 mg/kg), ethylbenzene (4.89 mg/kg), and total xylenes (6.02 mg/kg) were detected.
- **<u>B-3-6'</u>** Gasoline (45.7 mg/kg) was detected. BTEX constituent were not dedtected at or above the laboratory reporting limits.
- **B-4-3'** Gasoline and BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-4-6'** Gasoline and BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-5-7'** Diesel, gasoline, and BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-6-6'** Gasoline and BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-6-9'** Gasoline (29.4 mg/kg), ethylbenzene (0.428 mg/kg), and total xylenes (0.486 mg/kg) were detected. Benzene and toluene were not detected at or above the laboratory reporting limits.
- **B-7-3'** Gasoline and BTEX constituents were not detected at or above the laboratory reporting limits.
- **B-7-11'** Gasoline (1,260 mg/kg/), toluene (0.696 mg/kg), ethylbenzene (3.29 mg/kg), and total xylenes (6.51 mg/kg) were detected. Benzene was not detected at or above the laboratory reporting limit.
- **B-8-11'** Gasoline (339 mg/kg/), toluene (0.463 mg/kg), ethylbenzene (0.651 mg/kg), and total xylenes (2.75 mg/kg) were detected. Benzene was not detected at or above the laboratory reporting limit.

- **B-9-6'** Gasoline (11.7 mg/kg) was detected. BTEX constituents were not detected at or above the laboratory reporting limits.
- **<u>B-9-9'</u>** Gasoline (21.9 mg/kg) was detected. BTEX constituents were not detected at or above the laboratory reporting limits.

6.2.2 Grab Groundwater Analytical Results

- B-1-W Gasoline (160,000 micrograms per liter [μg/L]); benzene (108 μg/L); toluene (49,500 μg/L); ethylbenzene (23.5 μg/L); and total xylenes (135 μg/L) were detected. In addition, the following PAHs were detected: acenaphthene (27 μg/L); acenaphthylene (16 μg/L); anthracene (31.5 μg/L); benz(a)anthracene (13.8 μg/L); benzo(a)pyrene (8.07 μg/L); benzo(b)fluoranthene (3.62 μg/L); benzo(g,h,i)perylene (6.41 μg/L); benzo(k)fluoranthene (1.6 μg/L); chrysene (6.83 μg/L); dibenz(a,h)anthracene (0.724 μg/L); fluoranthene (14.3 μg/L); fluorine (37.7 μg/L); indeno(1,2,3-cd)pyrene (1.96 μg/L); naphthalene (6,640 μg/L); phenanthrene (58.8 μg/L); and pyrene (25.4 μg/L).
- **B-2-W** Gasoline (13,800 μg/L); benzene (3,450 μg/L); toluene (60 μg/L); ethylbenzene (239 μg/L); and total xylenes (612 μg/L) were detected. The following PAHs were also detected: acenaphthene (0.342 μg/L); acenaphthylene (0.141 μg/L); fluorine (0.714 μg/L); naphthalene (16.5 μg/L); and phenanthrene (0.543 μg/L).
- **B-3-W** Diesel (3,260 μg/L); gasoline (40,000 μg/L); benzene (41.3 μg/L); toluene (59 μg/L); ethylbenzene (155 μg/L); and total xylenes (670 μg/L) were detected. The following PAHs were also detected: acenaphthene (0.359 μg/L); acenaphthylene (0.123 μg/L); anthracene (0.0513 μg/L); fluorine (1.16 μg/L); naphthalene (93.0 μg/L); and phenanthrene (0.226 μg/L).
- **B-4-W** Diesel (2,830 μg/L); gasoline (9,170 μg/L); benzene (82.3 μg/L); toluene (9.81 μg/L); ethylbenzene (131 μg/L); and total xylenes (76.6 μg/L) were detected. The following PAHs were also detected: acenaphthene (0.220 μg/L); acenaphthylene (0.090 μg/L); fluorine (0.760 μg/L); naphthalene (106 μg/L); and phenanthrene (0.220 μg/L).

6.3 UST DECOMMISSIONING ANALYTICAL RESULTS

<u>T-3-backfill (excavated)</u> Diesel-, kerosene-, and gasoline-range hydrocarbons were detected in the HCID sample. Follow-up analyses follow: Diesel (991 mg/kg); kerosene (3,130 mg/kg); gasoline (5,410 mg/kg); toluene (2.97 mg/kg); ethylbenzene (18.2 mg/kg); total xylenes (161 mg/kg); and lead (2.85 mg/kg) were detected. Benzene was not detected at or above the laboratory reporting limit.

T1-S-13' Kerosene (251 mg/kg); gasoline (1,520 mg/kg); ethylbenzene (0.142 mg/kg); total xylenes (9.19 mg/kg); 1,2,4-TMB (0.0763 mg/kg); 1,3,5-TMB (0.0202 mg/kg); IPB (0.557 mg/kg); NPB (2.44 mg/kg); and naphthalene (0.0147 mg/kg) were detected). Benzene was not detected at or above the laboratory reporting limit.

T1-N-13', T2-N-13', T3-S-13', T3-N-13', T4-N-13', and T 2/3-SSW-7' Diesel-, kerosene-, lube oil-, gasoline-range hydrocarbons, as well as BTEX constituents were not detected at or above the laboratory reporting limits.

T2-S-13.5' Kerosene (51.1 mg/kg) and gasoline (76.2 mg/kg) were detected. Diesel- and lube oil-range hydrocarbons, as well as BTEX were not detected at or above the laboratory reporting limits.

<u>T4-S-13'</u> Gasoline (4.93 mg/kg) was detected. Diesel-, kerosene-, and lube oil-range hydrocarbons, as well as BTEX constituents were not detected at or above the laboratory reporting limits.

<u>W-Disp-2'</u> Diesel (8,290 mg/kg) and gasoline (68.8 mg/kg) were detected. Kerosene- and lube oil-range, as well as BTEX constituents were not detected at or above the laboratory reporting limits.

<u>M-Disp-2'</u> Diesel (1,200 mg/kg), gasoline (16.0 mg/kg), and ethylbenzene (0.119 mg/kg) were detected. Kerosene- and lube oil-range, as well as the remaining BTEX constituents were not detected at or above the laboratory reporting limits.

E-Disp-2' Diesel (23 mg/kg) and gasoline (5.64 mg/kg) were detected. Kerosene- and lube oilrange, as well as BTEX constituents were not detected at or above the laboratory reporting limits.

7.0 REGULATORY CLEANUP LEVELS

This section describes applicable generic and site-specific soil and groundwater target cleanup levels for the subject site.

7.1 OREGON SOIL MATRIX CLEANUP LEVEL

Oregon's Numeric Soil Cleanup regulations contained in OAR 340-122-305 to 340-122-360 establish numeric cleanup standards for soil impacted by releases of various petroleum products from USTs. These "Soil Matrix" standards allow quick identification of petroleum hydrocarbon cleanup levels for soil located above the seasonal-high groundwater table at UST sites.

Soil Matrix cleanup levels for a UST release of total petroleum hydrocarbons may be used if the impacted material is limited to soil only and groundwater has not been impacted. Soil Matrix

cleanup levels are based on site-specific criteria as specified in OAR 340-122-335 (DEQ, 2000). DEQ also commonly uses Soil Matrix cleanup levels for guidance purposes only, to evaluate total petroleum hydrocarbon concentrations in soil at sites where groundwater also has been impacted.

Based on site-specific parameters, a Soil Matrix score of 34 was calculated for the subject site, ranking it as a Level 2 Soil Matrix site, with allowable gasoline-range hydrocarbon concentrations in soil of 80 mg/kg and diesel- and lube oil-range hydrocarbon concentrations of 500 mg/kg (DEQ, 2000). Soil samples collected during site assessment activities (soil remaining in-place) exceeding the Level 2 Soil Matrix cleanup levels include: S1-8.5' (3,120 mg/kg gas); S2-6' (530 mg/kg gas); B-1-10' (1,120 mg/kg gas); B-2-7' (1,050 mg/kg gas); B-7-11' (1,260 mg/kg gas); and B-8-11' (339 mg/kg gas). Soil samples collected during UST system decommissioning activities (soil remaining in-place) exceeding the Level 2 Soil Matrix cleanup levels include: T1-S-13' (1,520 mg/kg gas), W Disp-2' (8,290 mg/kg diesel); M Disp-2' (1,200 mg/kg diesel). The Soil Matrix Score Sheet is included in Appendix B.

7.2 OREGON RISK-BASED DECISION MAKING LEVELS

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 were revised in September 2003 (DEQ, 2003).

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 soil are considered to be: 1) vapor intrusion into buildings (occupational); 2) volatilization to outdoor air (occupational); and 3) soil ingestion, dermal contact, and inhalation for an excavation worker. The exposure pathways considered potentially complete 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. Following are the results of soil and grab groundwater samples exceeding applicable potential exposure pathways:

Soil

Benzene exceeded the vapor intrusion into buildings (occupational) exposure pathway RBC (1.2 mg/kg) in two soil samples (soil remaining in-place) collected during site assessment activities (5.91 mg/kg [S1-8.5'] and 2.1 mg/kg [B-2-7']).

Groundwater

Gasoline exceeded the groundwater in an excavation (construction and excavation worker) exposure pathway RBC (12,000 μ g/L) in the following samples: B-1-W (160,000 μ g/L); B-2-W (13,800 μ g/L); and B-3-W (40,000 μ g/L). Benzene exceeded the RBC for the three potentially complete exposure pathways in sample B-2-W (3,450 μ g/L). The following PAHs exceeded the RBCs for the groundwater in an excavation (construction and excavation worker) exposure pathway in sample B-1-W: benz(a)anthracene (13.8 μ g/L, RBC = 9.1 μ g/L); benzo(a)pyrene (8.07 μ g/L, RBC = 0.53 μ g/L); dibenz(a,h)anthracene (0.724, RBC = 0.21 μ g/L); and naphthalene (6,640 μ g/L, RBC = 680 μ g/L).

None of the soil samples collected during UST system decommissioning activities exceeded the potentially complete exposure pathway RBCs. The RBC cleanup levels are listed in Appendix A of the most recently published DEQ RBDM guidance document (DEQ, 2003) and are summarized in Tables 1 through 4 of this report.

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 repair facility and is an area of commercial development.

ECNW 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. During UST removal activities, the apparent impacted backfill material was excavated and stockpiled onsite, and subsequently transported to Hillsboro Landfill for disposal, along with the previously excavated soil generated during site assessment activities. Analytical results of the compliance soil samples collected following UST removal activities indicated relatively low levels of petroleum hydrocarbon-impacted soil in isolated areas of the former UST cavity.

Analytical results of samples collected from beneath the former fuel dispensers indicate that residual diesel- and gasoline-range hydrocarbons are present in the southern portion of the site.

Based on a preliminary review of potential exposure pathway RBCs, it appears that a limited amount of soil beneath the site, in the vicinity of the former underground piping and at the southeast corner of the former UST cavity, contains petroleum hydrocarbons exceeding the DEQ RBDM RBCs and/or the DEQ Level 2 Soil Matrix cleanup levels.

Grab groundwater analytical results from samples collected near the former underground product piping from the shallow water-bearing zone indicate that benzene, TPH-G, and four PAH constituent concentrations exceed the most conservative potential exposure pathway RBCs.

Based on the laboratory results, it appears that further site assessment may be warranted. We propose that additional soil borings be advanced and monitoring wells be installed to further assess subsurface site conditions.

9.0 REFERENCES

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.

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 SOIL ANALYTICAL RESULTS - HCID, TPH & BTEX Site Assessment Molalla Kwik Gas **Main Street** Molalla, Oregon ECNW Project No. 05-106

Sample Identification	Date of Sampling	Sample Depth (Feet bgs)	HCID [1]	TPH-	Dx [2]	TPH-Gx (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	LAB
dentinoation	Camping	(Feet bgs)	Detected/ Not Detected	Diesel (mg/kg)	Lube Oil (mg/kg)	[3]	[4]	[4]	[4]	[4]	
PL-1-3'	3/15/2005	3	Gasoline		-	1,100	16.7	102	29	146	SA
PL-1-5'	3/15/2005	5				8,370	85.8	664	169	901	SA
PL-2-2.75'	3/15/2005	2.75			-	5,730	12.6	97.2	70.1	541	SA
S1-8.5 ¹	4/12/2005	8.5	_			3,120	5.91	3.98	48.7	11.3	SA
S2-6'	4/12/2005	6	Gasoline/Diesel	32.6	ND<54.6	530				-	SA
B-1-10'	4/26/2005	10	_	67	ND<60.9	1,120	ND<0.305	7.81	11.2	54.4	SA
B-2-7'	4/26/2005	7	_		_	1,050	2.1	2.79	4.89	6.02	SA
B-3-6'	4/26/2005	6	_			45.7	ND<0.0347	ND<0.139	ND<0.139	ND<0.416	SA
B-4-3'	4/26/2005	3	_		-	ND<3.33	ND<0.0333	ND<0.133	ND<0.133	ND<0.399	SA
B-4-6'	4/26/2005	6		<u></u>	_	ND<3.33	ND<0.0333	ND<0.133	ND<0.133	ND<0.399	SA
B-5-7'	4/26/2005	7	_	ND<21.1	ND<70.4	ND<3.52	ND<0.0352	ND<0.141	ND<0.0141	ND<0.423	SA
B-6-6'	4/26/2005	6		_		ND<3.21	ND<0.0321	ND<0.128	ND<0.128	ND<0.385	SA
B-6-9'	4/26/2005	9	_	_		29.4	ND<0.0363	ND<0.145	0.428	0.486	SA
B-7-3'	4/26/2005	3				ND<3.17	ND<0.0317	ND<0.127	ND<0.127	ND<0.381	SA
B-7-11'	4/26/2005	11				1,260	ND<0.0321	0.696	3.29	6.51	SA
B-8-11'	4/26/2005	11				339	ND<0.0311	0.463	0.651	2.75	SA
B-9-6'	4/26/2005	6				11.7	ND<0.0328	ND<0.131	ND<0.131	ND<0.393	SA
B-9-9'	4/26/2005	9		-		21.9	ND<0.0353	ND<0.141	ND<0.141	ND<0.423	SA
il Matrix Clea	nup Level (Leve	l 2) [5]	NE	500	500	80	NE	NE	NE	NE	
	Occ. Vapor Intro	sion into buildings	NE	>Max	NE	>Max	1.2	Coat (E20)	Cook (227)	Cont (250)	
_		tion to Outdoor Air	NE	>Max	NE	80,000	48	>Csat (538) >Csat (538)	>Csat (327) >Csat (327)	>Csat (358) >Csat (358)	
	Soil Ingestion, D	ermal Contact, and Excavation Worker	NE	>Max	NE	>Max	9,400 >Csat	>Max	>Max	>Max	

feet bgs ND

feet below ground surface

Not detected at or above the laboratory reporting limit

mg/kg ND NE

Milligrams per kilogram Not detected at or above the indicated laboratory reporting limit

Not Established by DEQ

Not analyzed/measured/applicable

SA RBC

Specialty Analytical Risk-Based Concentration

Total petroleum hydrocarbons

Hydrocarbon Identification (NWPTH-HCID)
 Total Petroleum Hydrocarbons as Diesel, Extended (NWPTH-Dx)
 Total Petroleum Hydrocarbons as Gasoline (NWPTH-Gx)

[3] Total Petroleum Hydrocarbons as Gasoline (NWPTH-Gx)
 [4] EPA Method 8021B
 [5] Oregon Department of Environmental Quality (DEQ) Soil Matrix Cleanup Level (OAR 340-122-0360)
 [6] DEQ Generic Risk Based Concentrations (RBCs) (DEQ, 2003)
 >Max: The constiuent RBC for this pathway is greater than 100,000 mg/kg. The TPH RBC is greater than the maximum amount that would be present if all of the initial air space is filled with petroleum product.
 DEQ believes it is hightly unlikely that such concentrations will ever be encountered.

>Csat This soil RBC exceeds the limit of three-phase equilibrium partitioning [shown in ()]. Soil concentrations in excess of Csat indicate that free product might be present.

TABLE 2
Groundwater Analytical Results - TPH-Dx, TPH-G, and BTEX
Site Assessment
Molalla Kwik Gas
Main Street
Molalla, Oregon
ECNW Project No. 05-106

Sample I.D.	Date of Sampling	TP	H-Dx (1)	TPH-G	В	Т	Е	X	
	Date of Camping	Diesel (µg/L)	Lube Oil (µg/L)	(µg/L) (2)	(µg/L) [3]	(µg/L) [3]	(µg/L) [3]	(μg/L) [3]	LAB
B-1-W	4/26/2005			160,000	108	49,500	23.5	135	SA
B-2-W	4/26/2005	_		13,800	3,450	60	239	612	SA
B-3-W	4/26/2005	3,260	ND<0.500	40,000	41.3	59	155	670	SA
B-9-W	4/26/2005	2,830	ND<0.509	9,170	82.3	9.81	131	76.6	SA
isk-Based Concentrations		_							1 2 3
Occ. Vapor Intrusion Into I	3-	>S	NE	>S	2,700	>S (526,000)	>S (169,000)	>S (175,000)	
Occ. Volatilization to Outd		>S	NE	>\$	1,300	>S (526,000)	>S (169,000)	>S (175,000)	
Groundwater in an Excavate Construction and Excavate		>S	NE	12,000	1,700	78,000	110,000	22,000	
BBREVIATIONS: g/L D E - old	Benzene Toluene Ethylbenzene Total Xylenes Micrograms per Liter Not detected at or above the inc Not Established by DEQ Not analyzed/measured/applica Exceeds risk-based concentration	ble	ory reporting lin	nit	(1) (2) (3) (4)	Generic Risk Base (DEQ, 2003). This groundwater Groundwater cond free product may I not listed in Apper	INWTPH-GX B ant of Environments and Concentrations RBC exceeds the secunitations in excess centrations in excess be present. If solublidix D of the DEQ B	al Quality (DEQ) (RBCs) solubility limit listed ss of S indicate that bility is not listed, dar RBDM guidance doc (I.e., gasoline and d	ta was

TABLE 3 **Groundwater Analytical Results (PAHs) Site Assessment** Molalla Kwik Gas 305 West Main Street Molalla, Oregon ECNW Project No. 05-106

Polynuclear Aromatic [1		naphthene	napthylene	ıthracene	ız(a)anthracene	:o(a)pyrene	o(b)fluoranthene	o(g,h,l)perylene	()fluoranthene	hrysene	enz(a,h)anthracene	roanthene	luorene	,2,3-cd)pyrene	ohthalene	nanthrene	Pyrene	LAB
Sample Identification	Sample Date	Ace	Ace	Ā	Benz(Benz	Benzo(t	Benzo(Benzo(k	Ö	Dibenz(a	Fluo	Œ.	Indeno(1	Nag N	Phe		
B-1-W	4/26/2005	27	16	31.5	13.8	8.07	3.62	6.41	1.6	6.83	0.724	14.3	37.7	1.96	6,640	58.8	25.4	SA
B-2-W	4/26/2005	0.342	0.141	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	0.714	ND<0.0503	16.5	0.543	ND<0.0503	SA
B-3-W	4/26/2005	0.359	0.123	0.0513	ND<0.0513	ND<0.0513	ND<0.0513	ND<0.0513	ND<0.0513	ND<0.0513	ND<0.0513	ND<0.0513	1.160	ND<0.0513	93.0	0.226	ND<0.0513	SA
B-9-W	4/26/2005	0.220	0.090	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	0.760	ND<0.0500	106	0.220	ND<0.0500	SA
sk-Based Concentration of the concentration of the concentration of the concentration to the construction and Excentration an	nto buidlings Outdoor Air cavation	>S (4,240) >S (4,240) >S (4,240)	NE NE NE	>S (43.4) >S (43.4) >S (43.4)	>S (9.40) >S (9.40) 9.1	>S (1.62) >S (1.62) 0.53	>S (1.50) >S (1.50) >S (1.50)	NE NE NE	>S (0.80) >S (0.80) >S (0.80)	>S (1.60) >S (1.60) >S (1.60)	>S (0.249) >S (0.249) 0.21	>\$ (0.206) >\$ (0.206) >\$ (0.206)	>S (1,980) >S (1,980) >S (1,980)	>S (0.0220) >S (0.0220) >S (0.0220)	>S (31,000) >S (31,000) 680	NE NE NE	>S (135) >S (135) >S (135)	
Construction and Exc				>S (43.4)	9.1	0.53		[1]	>S (0.80) DEQ Method 8	>S (1.60)	0.21	>S (0.206)	>S (1,980)	>S (0.0220)	680			

ND not detected at or above the indicated laboratory reporting limit SA Specialty Analytical μg/L Micrograms per Liter

Oregon Department of Environmental Quality (DEQ) Generic Risk Based Concentrations (RBCs) (DEQ, 2003).

A Risk-Based Concentration has not been determined for this constituent
This groundwater RBC exceeds the solubility limit listed in (). 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, 2003). NE >S

TZ-5-13.5' Ethylbehrehe = 0.189 XyleLes = 0.503

TABLE 4 UST Decommissioning Soil Analytical Results - HCID, TPH, and RBDM VOCs Molalla Kwik Gas **Main Street** Molalla, Oregon ECNW Project No. 05-106

		Doub		T	TPH-Dx [2]	1		T	T _		T]		T			Т	Г	т			
Sample ID	Date of Sampling	Depth Feet bsg	HCID [1]	Diesel	Kerosene		TPH-G [3]	B [4]	[4]	E [4]	(4)	1,2,4-TMB [5]	EDB [5]	EDC [5]	1,3,5-TMB [5]	IPB [5]	MTBE [5]	NPB [5]	Naphthalene [5]	Lead [6]	L
T-3 backfill (excavated)	9/29/2006	3	Gas/ Kerosene/ Diesel	991	3,130	ND<70.1	5,410	ND<0.0314	2.97	18.2	161									2.85	
T1-S-13'	10/4/2006	13	-	ND<19.1	251	ND<63.5	1,520	ND<0.0318	ND<0.127	0.142	9.19	0.0763	ND<0.100	ND<0.100	0.0202	0.557	ND<0.010	2.44	0.0147	-	S
T1-N-13'	10/4/2006	13		ND<19.7		ND<65.8	ND<3.29	ND<0.0329	ND<0.132	ND<0.132	ND<0.395					_	-				S
T2-S-13.5'	10/4/2006	13.5	-	ND<19.9	51.1	ND<66.5	76.2	ND<0.0332	ND<0.133	ND<0.133	ND<0.399										S
T2-N-13'	10/4/2006	13		ND<18.5		ND<61.5	ND<3.08	ND<0.0308	ND<0.123	ND<0.123	ND<0.369										SA
T3-S-13'	10/4/2006	13	_	ND<22.4		ND<74.6	ND<3.73	ND<0.0373	ND<0.149	ND<0.149	ND<0.448				_						SA
T3-N-13'	10/4/2006	13	_	ND<18.7		ND<62.2	ND<3.11	ND<0.0311	ND<0.124	ND<0.124	ND<0.373										SA
T4-S-13'	10/4/2006	13	_	ND<20.5		ND<68.2	4.93	ND<0.0341	ND<0.136	ND<0.136	ND<0.409		_								SA
T4-N-13'	10/4/2006	13		ND<18.2		ND<60.5	ND<3.03	ND<0.0303	ND<0.121	ND<0.121	ND<0.363			_		-					SA
T2/3-SSW-7'	10/4/2006	7		ND<21.7		ND<72.5	ND<3.62	ND<0.0362	ND<0.145	ND<0.145	ND<0.435				_						SA
W Disp-2'	10/4/2006	2		8,290		ND<58.8	68.8	ND<0.0294	ND<0.118	ND<0.118	ND<0.353			_ 1							SA
M Disp-2'	10/4/2006	2		1,200		ND<54.1	16.0	ND<0.0270	ND<0.101	0.119	ND<0.324			_	_			_			SA
E Disp-2'	10/4/2006	2	-	23		ND<53.2	5.64	ND<0.0266	ND<0.106	ND<0.106	ND<0.319			<u> </u>	_	_		-			SA
	p Level (Level 2) [7]	Tec. Vilumin	NE	500	500	500	80	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
sk-Based Conce - Occ. \	/apor Intrusion Into	buildings	NE	>Max	NE	NE	>Max	1.2	>Csat (538)	>Csat (327)	>Csat (358)	840	0.37	0.56	140	>Csat (335)	35	>Cest (109)	>Csat (312)	NE	
- Occ	. Volatilization to Ou	tdoor Air	NE	>Max	NE	NE	80,000	48	>Csat (538)	>Csat (327)	>Csat (358)	790	1.7								
Soil ingestion, D	ermal Contact, and I		NE	>Max	NE	NE	>Max	9,400 >Csat	>Max	>Max	>Max	40,000>Csat	7.1	14 5,000>Csat	>Csat (211) 40,000>Csat	>Csat (335) >Max	720 5,000	>Csat (198) >Max	>Csat (312) 20,000>Csat	NE 750	

ABBREVIATIONS:

feet bgs feet below ground surface

Not detected at or above the laboratory reporting limit

mg/kg Milligrams per kilogram

Benzene Toluene Ethylbenzene X TMB Total Xylenes Trimethylbenzene **EDB** Ethylene dibromide EDC Ethylene dichloride **IPB** Isopropylbenzene MTBE Methyl tertiary butyl ether NPB

N-propylbenzene ND Not detected at or above the indicated laboratory reporting limit

NE Not Established by DEQ

Not analyzed/measured/applicable

SA Specialty Analytical

[1] Hydrocarbon Identification (NWPTH-HCID)[2] Total Petroleum Hydrocarbons as Diesel, Extended (NWPTH-Dx)

[3] Total Petroleum Hydrocarbons as Gasoline (NWPTH-Gx)

[4] EPA Methods 8021B or 8260B

[5] EPA Method 8260B
[6] Epa Method 6010

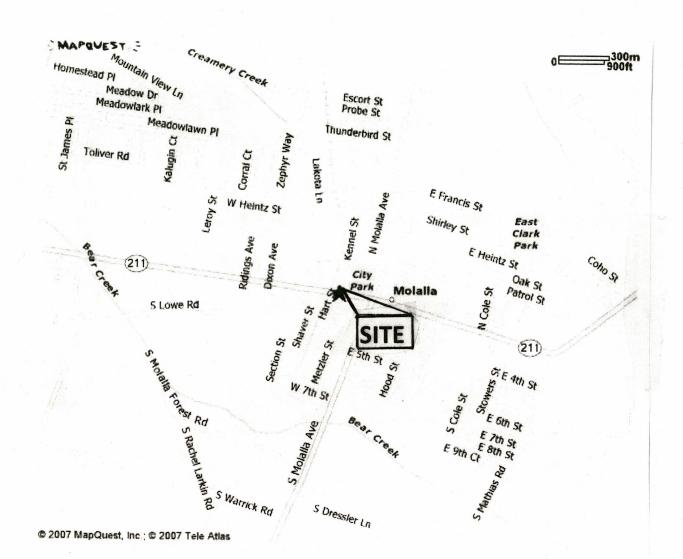
[7] Epa Metriod 6010
[7] Oregon Department of Environmental Quality (DEQ) Soil Matrix Cleanup Level (OAR 340-122-0360)
[8] DEQ Generic Risk Based Concentrations (RBCs)

>Max: The constiuent RBC for this pathway is greater than 100,000 mg/kg. The TPH RBC is greater than the maximum amount that would be present if all of the initial air space is filled with petroleum product.

DEQ believes it is hightly unlikely that such concentrations will ever be encountered.

>Csat This soil RBC exceeds the limit of three-phase equilibrium partitioning [shown in ()]. Soil concentrations in excess of Csat indicate that free product might be present.

FIGURES

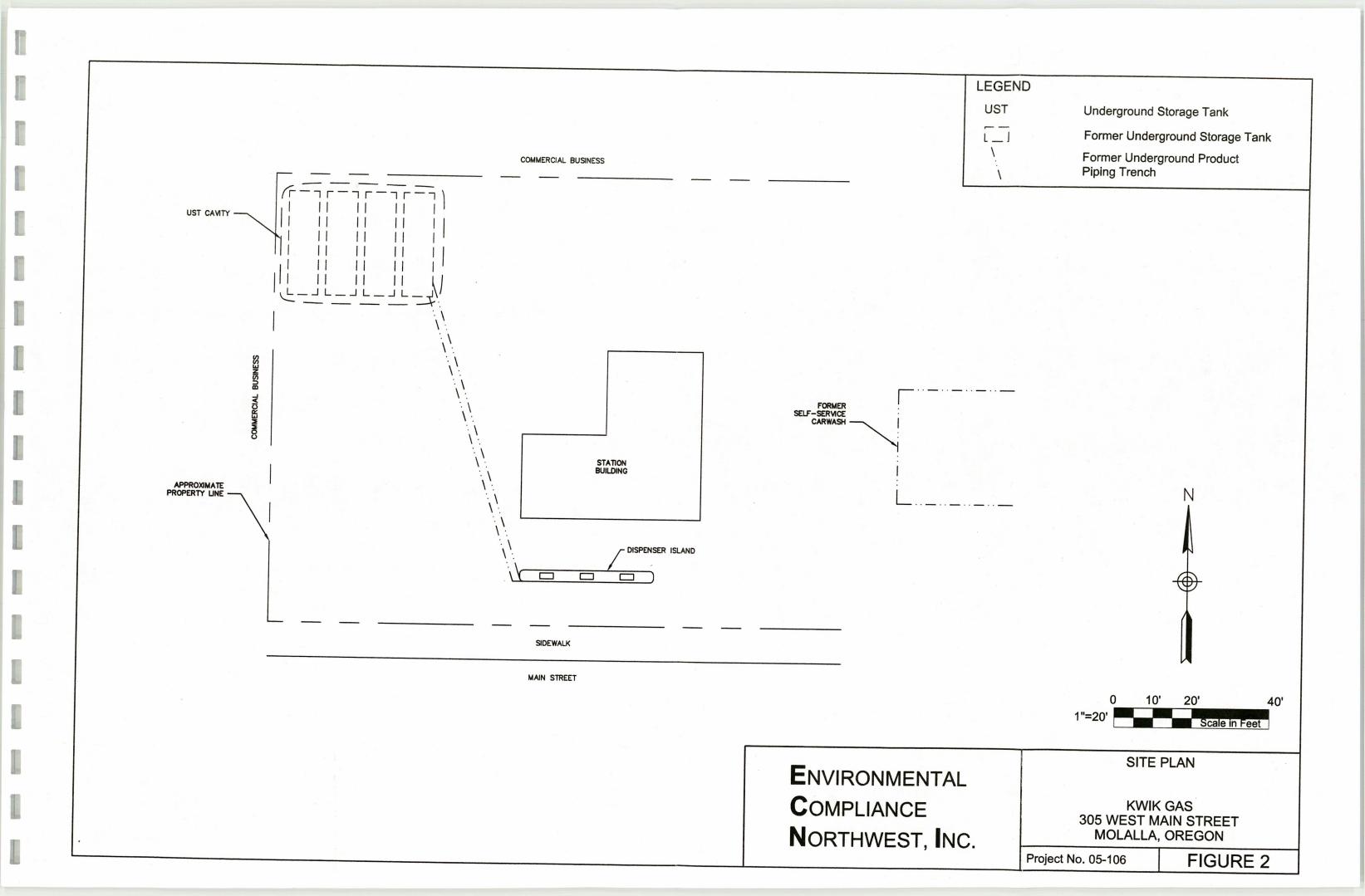


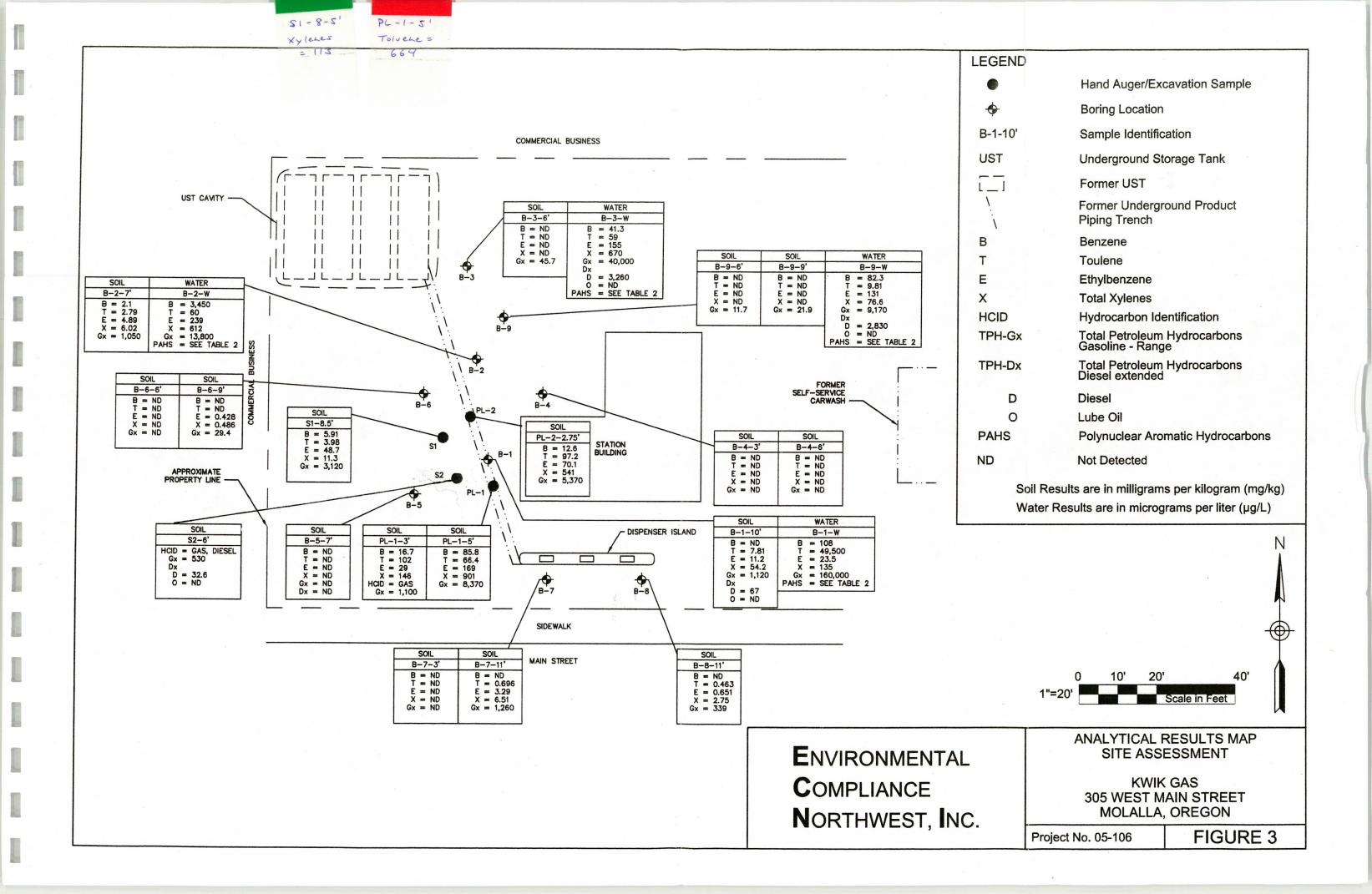
VICINITY MAP

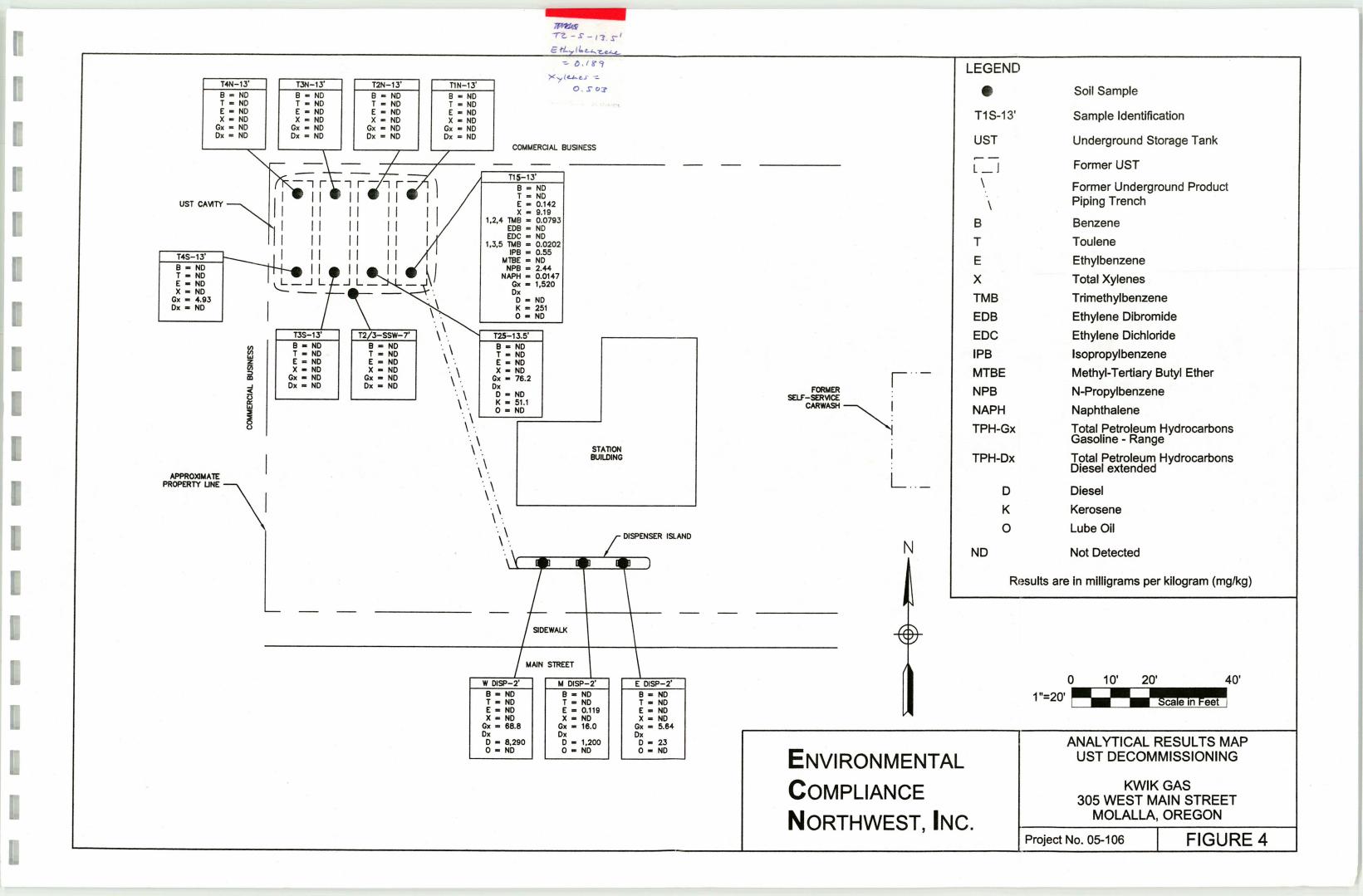
MOLALLA KWIK GAS 305 WEST MAIN STREET MOLALLA, OREGON

ECNW PROJ. No. 05-106

FIGURE 1







APPENDIX A

				npliance west, Inc.					(P	Page 1 of 1)
		305 N	5 Wes Molall Projec	la Kwik Gas st Main Street lla, Oregon ect # 05106 Assessment	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 4/26/05 : 4/26/05 : 2-1/8" : Direct-Push : Macro-sampler	Company Northing C Easting Co Survey By Logged By	Coord Coord	d.	: : : : : J. Day
-	Blow Count	nscs	GRAPHIC		DESCRIPT	TION		Samples	Water Level	REMARKS
5-		GW	G 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Sandy Gravel (fill): brow gravel, no odor. Sand: light brown, moist petroleum odor.						
10-		sw		Tuff at 10' Drilling refusal at 11'			1		γ	

		No	rth	pnmental pliance vest, Inc.			(Page 1 of 1)
		305 I	Wes Molal Proje	Date Started : 4/26/05 t Main Street Date Completed : 4/26/05 a, Oregon Hole Diameter : 2-1/8" ct # 05106 Drilling Method Direct-Push ssessment Sampling Method : Macro-samp	Compan Northing Easting Survey B ler Logged	Coord Coord	d.	: : : J. Day
-eet	ıt				Loggeo	у	0	. J. Day
Depth in Feet	Blow Count	nscs	GRAPHIC	DESCRIPTION		Samples	Water Level	REMARKS
0-	E P	GW	0 0 0	Sandy Gravel (fill): brownish gray, moist, no odor.				
			0.	Gravelly Sand: olive gray to brown, moist, fine to coarse s some silt. indistinct odor.	and, fine to 2" gravel,			
5-						1		
-				Occasionally grades to silty sand				
	!	SW		Very moist to wet below 7'		1		
							C	
10-								
-		*						
			ı	rilling refusal at 13'				
				V				1

		No	rth	west, Inc.	-				. (Page 1 of 1)
		305	Mola Mola Proje	a Kwik Gas st Main Street lla, Oregon ct # 05106 assessment	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 4/26/05 : 4/26/05 : 2-1/8" : Direct-Push : Macro-sampler	North		p. ord.	: : : : J. Day
Depth in Feet	Blow Count	nscs	GRAPHIC		DESCRIP ¹	ΓΙΟΝ		Samples	Water Level	REMARKS
0-		GW	G G G G G G G G G G G G G G G G G G G	Sandy Gravel (fill): brow Gravelly/Silty Sand: gray to coarse sand, fine to 1/2	brown to light brow	vn. moist, fine to coarse	e sand, fine	-		
5-		sw		wet at 6' moist at 7' grades to sandy gravel in	places			1		
10-				Tuff: bluish gray, dense. Drilling refusal at 12'				*	<i>.</i>	
										u

	No	rth	west, Inc.					(F	Page 1 of 1)
	305 M	Wes Iolal Projec	a Kwik Gas st Main Street la, Oregon ct # 05106 ssessment	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 4/26/05 : 4/26/05 : 2-1/8" : Direct-Push : Macro-sampler	Compan Northing Easting Survey E Logged	Coord Coord By	o. rd.	: : : : J. Day
Depth in Feet	nscs	GRAPHIC		DESCRIPT	ΓΙΟΝ		Samples	Water Level	REMARKS
5-	SM		wet at 6' Gravelly/Silty Sand: gi to 2" gravel, no odor.	ray to brownish gray, m	noist, very fine to coars		2		
10-	SW		Boring terminated at 12						

		En C	vir on	onmental opliance west, Inc.		LOG O	F BORIN	G B	-5	
		305 N	lolal We Ilola Proje	la Kwik Gas st Main Street lla, Oregon ect # 05106 Assessment	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 4/26/05 : 4/26/05 : 2-1/8" : Direct-Push : Macro-sampler	North		ep. ord.	Page 1 of 1)
Depth in Feet	Blow Count	nscs	GRAPHIC		DESCRIP	ΓΙΟΝ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Samples	Water Level	REMARKS
-		GW		Gravel (fill): light brown,	moist, fine to coarse	e sand, fine to 2" grav	el, dense.			
5-				Silty Sand: brownish gra odor.	y, moist, fine to coa	sre sand, some grave	I up to 2", no			
-	8	SM.		very moist at 7' cohesive in places				1		
10-				coriesive in places						
				Boring terminated at 12'						

				west, Inc.	Date Started	: 4/26/05		- D		Page 1 of 1)
		305	We: Mola Proje	st Main Street lla, Oregon ct # 05106	Date Completed Hole Diameter Drilling Method	: 4/26/05 : 2-1/8" : Direct-Push	Compa Northin Easting Survey	g Coord Coord By	rd.	
, .			Site A	Assessment	Sampling Method	: Macro-sampler	Logged	Ву		: J. Day
Depth in Feet	Blow Count	nscs	GRAPHIC		DESCRIPT	TION		Samples	Water Level	REMARKS
-		GW	G G G G G G G G G G G G G G G G G G G	Gravel (fill): light brown,						
				Sand/Gravelly Sand: light fine to 1"+ gravel, mediun	brown to brownish n dense, indistinct o	gray, moist, fine to coa dor	sre sand,			
5-	f.	= .								
-		sw		very moist at 6'				1		
-				becomes tuffaceous below	v 7'					
10-				petroleum odor at 9'				2		
				Drilling refusal at 11'	-			3	ů	
-								J.		

	M 305	rthwest, Inc. olalla Kwik Gas West Main Street	Date Started			(Page 1 of 1)
	F	Molalla, Oregon Project # 05106 ite Assessment	Date Completed Hole Diameter Drilling Method Sampling Method	: 4/26/05 : 4/26/05 : 2-1/8" : Direct-Push : Macro-sampler	Company Rep Northing Coord Easting Coord Survey By Logged By	d. : - '
Depth in Feet	Blow Count USCS	의 보호 전체 (2"), gravel fill (5	DESCRIPT	ΓΙΟΝ	Samples	Water Level
5-	SM	Silty Sand: brown, mois 1" gravel, no odor.		sand, medium dense, s	ome fine to	
		Drilling refusal at 12'			2	

Environmental Compliance Northwest, Inc.			mpliance	LOG OF BORING B-8				
						(Page 1 of 1)		
Molalla Kwik Gas 305 West Main Street Molalla, Oregon Project # 05106 Site Assessment		/est Main Street lalla, Oregon pject # 05106	Date Completed : 4/26/05 North Hole Diameter : 2-1/8" Easti Drilling Method : Direct-Push Surve	npany Rething Coo ting Coo vey By ged By	ord.	: : : : J. Day		
Depth in Feet	Blow Count	USCS		DESCRIPTION	Samples	Water Level	REMARKS	
			Asphalt (2"), gravel fill	(16").				
5-		SM	ossasionally grades to	pist, very fine to coarse sand, medium dense, some gravel, sandy silt, no odor.				
10-			Boring terminated at 12 ^t		1			

Environmental Compliance Northwest, Inc.			npliance LOG	LOG OF BORING B-9					
Molalla Kwik Gas 305 West Main Street Molalla, Oregon Project # 05106 Site Assessment		Mola 5 We Mola Proje	Ila Kwik Gas	Compa Northir Easting Survey Logged	ng Coor g Coor By	ep. ord.	(Page 1 of 1)		
Blow Count	USCS	GRAPHIC	DESCRIPTION		Samples	Water Level	REMARKS		
	GW	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Gravel (fill): grayish brown, moist, fine to 1" gravel, no odor. Sandy Silt: brown, moist, fine to coarse sand, occasional gravel,	, no odor.					
; -	SM		Silty Sand: light to medium brown, moist, very fine to coarse sand no odor. becomes olive gray to to greenish gray, weak petroleum odor belo	pw 6'	1				
- s	:w		Gravelly Sand: greenish gray, moist to wet, fine to coarse sand, figravel, loose to medium consolidated, indistinct odor.		2				

04-19-2007 C:\Users\John\Documents\Projects\Powell Dist\Molalla\Boring Logs\B-9.bor

APPENDIX B

CHAIN OF CUSTODY RECORD

Contact Person/Project Manager_ John Open

Page of

	1/2
/	

Specialty Analytical

19761 S.W. 95th. Avenue Tualatin, OR 97062 (503) 612-9007 - Phone (503) 612-8572 - Fax

Collected By:		Project No. 05 105	100 0:1
Signature John Drong		Invoice To	Project Name for ell-molation
Signature	F	Analyses	For Laboratory Use
Turn Around Time Normal Rush Specify Rush Analyses Must Be Scheduled With The Lab In Advance	No. of Containers	X	Lab Job No
Date Time Sample I.D. Ma 19/4/06 1500 71-5-17 1445 71-10-13 1755 72-5-13:5	trix 7	X	Comments Lab I.D. S K fun Itiglest

Lab I.D. Run Highest Brox For Rush Risom 1200 Rush Relinquished By: Received By: Time Relinquished By: Company: Date Time Company: Company: Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Received For Lab By: Copies: White-Original Yellow-Project File Date Time Pink-Customer Copy

CLIENT: Environmental Co Project: Powell-Molalla / 0	ompliance North	west, Inc.		L	ab Order:	0504106
Lab ID: 0504106-14				Collection Date:	4/26/2005	5 11:50:00 AM
Client Sample ID: B-5-7'				Matrix:		1
Analyses	Result	Limit	Onal	Units	DF	Data Analysis
	Result	Limit	Quai		DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: tlf
Diesel	ND	21.1		mg/Kg-dry	1	4/27/2005
Lube Oil	ND	70.4		mg/Kg-dry	1	4/27/2005
Surr: o-Terphenyl	. 78.4	50-150		%REC	1	4/27/2005
BTEX - RBC		SW8021B				Analyst: tlf
Benzene	ND	0.0352		mg/Kg-dry	1	4/27/2005
Toluene	ND	0.141		mg/Kg-dry	1	4/27/2005
Ethylbenzene	ND	0.141		mg/Kg-dry	1	4/27/2005
Xylenes, Total	ND	0.423		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluorobenzene	124	42.6-126		%REC	1	4/27/2005
NWTPH-GX		NWTPH-GX				Analyst: tif
Gasoline	ND	3.52		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluorobenzene	118	50-150		%REC	1	4/27/2005
300.100 10			(Collection Date:		12:10:00 PM
	Result	Limit		Matrix:	4/26/2005 SOIL DF	12:10:00 PM Date Analyzed
Client Sample ID: B-6-3' Analyses	Result	Limit PER CLIENT		Matrix:	SOIL DF	
Client Sample ID: B-6-3' Analyses HOLD PER CLIENT REQUEST			Qual	Matrix:	DF 1	Date Analyzed Analyst: ADM 4/28/2005
Client Sample ID: B-6-3' Analyses HOLD PER CLIENT REQUEST Hold			Qual	Matrix: Units	DF 1	Date Analyzed Analyst: ADM
Client Sample ID: B-6-3' Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16			Qual	Matrix: Units Collection Date: Matrix:	SOIL DF 1 4/26/2005	Date Analyzed Analyst: ADM 4/28/2005
Client Sample ID: B-6-3' Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6'	HOLD	PER CLIENT	Qual	Matrix: Units Collection Date: Matrix:	SOIL DF 1 4/26/2005 SOIL	Analyzed Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed
Client Sample ID: B-6-3' Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses	HOLD	PER CLIENT	Qual	Matrix: Units Collection Date: Matrix: Units	SOIL DF 1 4/26/2005 SOIL DF	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses STEX - RBC	HOLD	PER CLIENT Limit SW8021B	Qual Qual	Matrix: Units Collection Date: Matrix: Units	SOIL DF 1 4/26/2005 SOIL DF	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses STEX - RBC Benzene	HOLD Result	Limit SW8021B 0.0321	Qual Qual	Matrix: Units Collection Date: Matrix: Units mg/Kg-dry mg/Kg-dry	SOIL DF 1 4/26/2005 SOIL DF	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses STEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total	Result ND ND	Limit SW8021B 0.0321 0.128	Qual C	Matrix: Units Collection Date: Matrix: Units mg/Kg-dry mg/Kg-dry mg/Kg-dry	SOIL DF 1 4/26/2005 SOIL DF 1 1 4 1	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005 4/27/2005
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses STEX - RBC Benzene Toluene Ethylbenzene	Result ND ND ND	Limit SW8021B 0.0321 0.128 0.128	Qual C	Matrix: Units Collection Date: Matrix: Units mg/Kg-dry mg/Kg-dry	SOIL DF 1 4/26/2005 SOIL DF 1 1 4 1 4 1	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses BTEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total	Result ND ND ND ND ND 122	Limit SW8021B 0.0321 0.128 0.128 0.385	Qual C	Matrix: Units Collection Date: Matrix: Units mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry	SOIL DF 1 4/26/2005 SOIL DF 1 1 4 1 4 1	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005 4/27/2005 4/27/2005 4/27/2005 4/27/2005
Analyses HOLD PER CLIENT REQUEST Hold Lab ID: 0504106-16 Client Sample ID: B-6-6' Analyses BTEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Result ND ND ND ND ND 122	Limit SW8021B 0.0321 0.128 0.128 0.385 42.6-126	Qual Qual	Matrix: Units Collection Date: Matrix: Units mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry	SOIL DF 1 4/26/2005 SOIL DF 1 1 1 1 1 1	Analyst: ADM 4/28/2005 12:15:00 PM Date Analyzed Analyst: tlf 4/27/2005 4/27/2005 4/27/2005 4/27/2005

	Environmental Con Powell-Molalla / 05		west, Inc.		I	ab Order:	0504106
Lab ID:	0504106-17				Collection Date:	4/26/200	5 12:20:00 PM
Client Sample ID:	B-6-9'				Matrix:	SOIL	
Analyses		Result	Limit	Qua	Units	DF	Date Analyzed
BTEX - RBC			SW8021B				A l 1. 115
Benzene		ND	0.0363		mg/Kg-dry	1	Analyst: tlf
Toluene		ND	0.145		mg/Kg-dry	1	4/27/2005
Ethylbenzene		0.428	0.145		mg/Kg-dry	1	4/27/2005
Xylenes, Total		0.486	0.436		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluc	probenzene	118	42.6-126		%REC		4/27/2005
MARRIE AND		. 10	42.0-120		70REC	1	4/27/2005
NWTPH-GX			NWTPH-GX				Analyst: tif
Gasoline		29.4	3.63		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluo	robenzene	113	50-150		%REC	1	4/27/2005
ab ID:	0504106-18				Collection Date:	4/26/2005	12:25:00 PM
Client Sample ID:	B-6-11'				Matrix:	SOIL	12.25.00 1141
nolysos		<u> </u>			Matrix.	SOIL	
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT F	REQUEST	HOLD	PER CLIENT			1	Analyst: ADN 4/28/2005
ab ID:	0504106-19	W. T.		(Collection Date:	4/26/2005	12:55:00 PM
lient Sample ID:	B-7-3'				Matrix:	SOIL	
nalyses	B exc	Result	Limit	Qual	Units	DF	Date Analyzed
TEX - RBC			SW8021B				Analyst: tif
Benzene		ND	0.0317		mg/Kg-dry	1	5/4/2005
Toluene		ND	0.127		mg/Kg-dry		5/4/2005
Ethylbenzene		ND	0.127		mg/Kg-dry		5/4/2005
Xylenes, Total		ND	0.381		mg/Kg-dry		5/4/2005
Surr: 4-Bromofluoro	benzene	122	42.6-126		%REC		5/4/2005
WTPH-GX			NACTOL! ON				
Gasoline		ND	NWTPH-GX				Analyst: tlf
Surr: 4-Bromofluoro	henzene	97.3	3.17		mg/Kg-dry		5/4/2005
· Dioinolidolo	001120110	97.3	50-150		%REC	1 5	5/4/2005

CLIENT: Project:	Environmental Comp Powell-Molalla / 0510		nwest, Inc.		. 1	ab Order:	0504106
Lab ID:	0504106-20				Collection Date:	4/26/2003	5 1:00:00 PM
Client Sample ID:	B-7-7'				Matrix:	SOIL	
Analyses		Result	Limit	Qua	Units	DF	Date Analyzed
HOLD PER CLIENT	REQUEST		PER CLIEN	т		V10.01	Analyst: ADM
Hold		HOLD				1	4/28/2005
Lab ID:	0504106-21				Collection Date:	4/26/2005	1:10:00 PM
Client Sample ID:	B-7-11'				Matrix:	SOIL	1110.00 1111
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC			SW8021B				Analyst: tlf
Benzene		ND	0.0321		mg/Kg-dry	1	4/27/2005
Toluene		0.696	0.128		mg/Kg-dry	1	4/27/2005
Ethylbenzene		3.29	0.128		mg/Kg-dry	1	4/27/2005
Xylenes, Total		6.51	0.385		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromoflu	probenzene	179	42.6-126	S,MI	%REC	1	4/27/2005
NWTPH-GX			NWTPH-GX				Analyst: tlf
Gasoline		1260	32.1		mg/Kg-dry	10	4/27/2005
Surr: 4-Bromofluo	probenzene	53.6	50-150		%REC	10	4/27/2005
ab ID:	0504106-22				Collection Date:	4/26/2005	1:20:00 PM
Client Sample ID:	B-8-3'				Matrix:	SOIL	1.20.00 1111
Analyses		Result	Limit	Qual		DF	Date Analyzed
HOLD PER CLIENT Hold	REQUEST	HOLD	PER CLIENT			1	Analyst: ADM 4/28/2005
ab ID:	0504106-23			(Collection Date:	4/26/2005	1:25:00 PM
Client Sample ID:	B-8-7'					SOIL	
analyses	8 1	Result	Limit	Qual	Units	DF	Date Analyzed
OLD PER CLIENT F	REQUEST	HOLD	PER CLIENT			1 4	Analyst: ADM 4/28/2005

CLIENT: Project:	Environmental Com Powell-Molalla / 05		nwest, Inc.		L	ab Order:	0504106
Lab ID:	0504106-24				Collection Date:	4/26/2005	5 1:30:00 PM
Client Sample ID:	B-8-11'				Matrix:	SOIL	
Analyses	y .	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC			SW8021B				Analyst 415
Benzene		ND	0.0311		mg/Kg-dry	1	Analyst: tlf 4/27/2005
Toluene		0.463	0.124		mg/Kg-dry	1	4/27/2005
Ethylbenzene		0.651	0.124		mg/Kg-dry	1	4/27/2005
Xylenes, Total		2.75	0.373		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromoflu	orobenzene	155	42.6-126	S,MI	%REC	1	4/27/2005
NWTPH-GX					7		
Gasoline		339	NWTPH-GX				Analyst: tlf
Surr: 4-Bromoflue	orobenzene		31.1	0.0	mg/Kg-dry	10	4/27/2005
Gair. 4-Bromond	or oberizerie	31.2	50-150	S,D	%REC	10	4/27/2005
Lab ID:	0504106-25				Collection Date:	4/26/2005	1:45:00 PM
Client Sample ID:	B-9-3'				Matrix:	SOIL	
Analyses		Result	Limit	Oual		DF	Date Analyzed
				~			Date Analyzeu
HOLD PER CLIENT	REQUEST		PER CLIENT				Analyst: ADN
Hold		HOLD				1	4/28/2005
							112012000
Lab ID:	0504106-26			(Collection Date:	4/26/2005	1:50:00 PM
Client Sample ID:	B-9-6'				Matrix:	SOIL	
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
STEX - RBC			SW8021B				Analyst: tlf
D		ND`	0.0328		mg/Kg-dry	1	4/27/2005
Benzene		ND	0.131		mg/Kg-dry		4/27/2005
Toluene		140					
Toluene Ethylbenzene		ND	0.131		mg/Kg-dry	1	4/27/2005
Toluene Ethylbenzene Xylenes, Total			0.131 0.393				
Toluene Ethylbenzene	robenzene	ND		S	mg/Kg-dry mg/Kg-dry %REC	1	4/27/2005 4/27/2005 4/27/2005
Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluor	robenzene	ND ND	0.393 42.6-126	S	mg/Kg-dry	1	4/27/2005 4/27/2005
Toluene Ethylbenzene Xylenes, Total	robenzene	ND ND	0.393	7	mg/Kg-dry	1 4	4/27/2005

Date:

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell-Molalla / 05106

Lab Order:

0504106

Lab ID:

0504106-27

Collection Date: 4/26/2005 1:55:00 PM

Client Sample ID:

B-9-9'

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
BTEX - RBC		SW8021B	-1		Analyst: tlf
Benzene	ND	0.0353	mg/Kg-dry	1	4/27/2005
Toluene	ND	0.141	mg/Kg-dry	1	4/27/2005
Ethylbenzene	ND	0.141	mg/Kg-dry	1	4/27/2005
Xylenes, Total	ND	0.423	mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluorobenzene	107	42.6-126	%REC	1	4/27/2005
NWTPH-GX		NWTPH-GX			Analyst: tlf
Gasoline	21.9	3.53	mg/Kg-dry	1	4/27/2005
Surr: 4-Bromofluorobenzene	97.8	50-150	%REC	1	4/27/2005

Surr: 2-Fluorobiphenyl

Surr: Nitrobenzene-d5

Surr: p-Terphenyl-d14

Date:

CLIENT: Environmental Compl Project: Powell-Molalla / 05100		vest, Inc.	Lab Order: 0504106					
Lab ID: 0504106-28			Collection Da	ite: 4/26/20	005 9:05:00 AM			
Client Sample ID: B-1-W			Matr					
Analyses	Result	Limit	Qual Units	DF	Date Analyzed			
BTEX - RBC		SW8021B			Analyst: 416			
Benzene	108	0.400	μg/L	200	Analyst: tlf 4/27/2005			
Toluene	49500	500	µg/L	1000	4/28/2005			
Ethylbenzene	23.5	0.500	µg/L	200	4/27/2005			
Xylenes, Total	135	1.50	μg/L	200	4/27/2005			
Surr: 4-Bromofluorobenzene	98.6	74.8-126	%REC	200	4/27/2005			
Surr: 4-Bromofluorobenzene	107	74.8-126	%REC	1000	4/28/2005			
NWTPH-GX		NWTPH-GX			Analyst: tlf			
Gasoline	160000	20000	μg/L	200	4/27/2005			
Surr: BFB	104	50-150	%REC	200	4/27/2005			
OW LEVEL PAH BY GC/MS OARSIM		8270SIM			Analyst: hele			
Acenaphthene	27.0	0.259	μg/L	1	Analyst: bda 4/28/2005 6:44:00 PM			
Acenaphthylene	16.0	0.259	µg/L	1	4/28/2005 6:44:00 PM			
Anthracene	31.5	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Benz(a)anthracene	13.8	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Benzo(a)pyrene	8.07	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Benzo(b)fluoranthene	3.62	0.259	µg/L	1	4/28/2005 6:44:00 PM			
Benzo(g,h,i)perylene	6.41	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Benzo(k)fluoranthene	1.60	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Chrysene	6.83	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Dibenz(a,h)anthracene	0.724	0.259	µg/L	1	4/28/2005 6:44:00 PM			
Fluoranthene	14.3	0.259	µg/L	1	4/28/2005 6:44:00 PM			
Fluorene	37.7	0.259	µg/L	1	4/28/2005 6:44:00 PM			
Indeno(1,2,3-cd)pyrene	1.96	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Naphthalene	6640	51.7	µg/L	200	4/29/2005 10:34:00 AM			
Phenanthrene	58.8	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Pyrene	25.4	0.259	μg/L	1	4/28/2005 6:44:00 PM			
Surr: 2-Fluorobiphenyl	96.0	18 6 106	0/ 050					

96.0

195

131

18.6-106

17-130 S,MI

39.6-131 S,MI

%REC

%REC

%REC

1

1

4/28/2005 6:44:00 PM

4/28/2005 6:44:00 PM

4/28/2005 6:44:00 PM

Surr: Nitrobenzene-d5

Surr: p-Terphenyl-d14

Date:

CLIENT: Environmental Compl Project: Powell-Molalla / 05106		west, Inc.	L	ab Orde	er: 0504106
Lab ID: 0504106-29			Collection Date:	4/26/2	005 10:15:00 AM
Client Sample ID: B-2-W			Matrix:	AQUI	
Analyses	Result	Limit	Qual Units	DF	Date Analyzed
BTEX - RBC		SW8021B			
Benzene	3450	20.0	ua/l	50	Analyst: tif
Toluene	60.0	5.00	μg/L μg/L	50 10	4/27/2005
Ethylbenzene	239	5.00		10	4/28/2005
Xylenes, Total	612	15.0	μg/L μg/L	10 10	4/28/2005
Surr: 4-Bromofluorobenzene	97.2	74.8-126	%REC		4/28/2005
Surr: 4-Bromofluorobenzene	103	74.8-126	%REC	50 10	4/27/2005 4/28/2005
NWTPH-GX		NWTPH-GX			
Gasoline	13800	1000	μg/L	10	Analyst: tlf 4/27/2005
Surr: BFB	127	50-150	%REC	10	4/27/2005
OW LEVEL PAH BY GC/MS OARSIM		8270SIM			
Acenaphthene	0.342	0.0503	μg/L	1	Analyst: bda 4/28/2005 5:41:00 PM
Acenaphthylene	0.141	0.0503	μg/L	1	The second secon
Anthracene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM 4/28/2005 5:41:00 PM
Benz(a)anthracene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM 4/28/2005 5:41:00 PM
Benzo(a)pyrene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM 4/28/2005 5:41:00 PM
Benzo(b)fluoranthene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM 4/28/2005 5:41:00 PM
Benzo(g,h,i)perylene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Benzo(k)fluoranthene	ND	0.0503	μg/L	1 *	4/28/2005 5:41:00 PM
Chrysene	ND	0.0503	µg/L	1	4/28/2005 5:41:00 PM
Dibenz(a,h)anthracene	ND	0.0503	µg/L	1	4/28/2005 5:41:00 PM
Fluoranthene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Fluorene	0.714	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Naphthalene	16.5	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Phenanthrene	0.543	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Pyrene	ND	0.0503	μg/L	1	4/28/2005 5:41:00 PM
Surr: 2-Fluorobiphenyl	60.5	18.6-106	%REC	1	4/28/2005 5:41:00 PM
Surr: Nitrobenzene-d5	72.0	17 120	9/ DEC		1/20/2000 0.41.00 FIVI

72.9

96.4

17-130

39.6-131

%REC

%REC

1

4/28/2005 5:41:00 PM

4/28/2005 5:41:00 PM

Surr: Nitrobenzene-d5

Surr: p-Terphenyl-d14

Date:

CLIENT: Environmental Compl Project: Powell-Molalla / 05100		vest, Inc.		Lab Order: 0504106			
Lab ID: 0504106-30				Collection Date:	4/26/20	005 11:10:00 AM	
Client Sample ID: B-3-W				Matrix:	AQUE	EOUS	
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed	
NWTPH-DX		NWTPH-DX				Analyst: tlf	
Diesel	3.26	0.250	L	mg/L	1	4/27/2005	
Lube Oil	ND	0.500		mg/L	1	4/27/2005	
Surr: o-Terphenyl	58.7	50-150		%REC	1	4/27/2005	
BTEX - RBC		SW8021B				Analyst: tlf	
Benzene	41.3	4.00		μg/L	10	4/28/2005	
Toluene	59.0	5.00		µg/L	10	4/28/2005	
Ethylbenzene	155	5.00		µg/L	10	4/28/2005	
Xylenes, Total	670	15.0		μg/L	10	4/28/2005	
Surr: 4-Bromofluorobenzene	118	74.8-126		%REC	10	4/28/2005	
IWTPH-GX		NWTPH-GX				Analyst: tlf	
Gasoline	40000	1000		μg/L	10	4/27/2005	
Surr: BFB	134	50-150		%REC	10	4/27/2005	
OW LEVEL PAH BY GC/MS OARSIM		8270SIM				Analyst: bda	
Acenaphthene	0.359	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Acenaphthylene	0.123	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Anthracene	0.0513	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Benz(a)anthracene	ND	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Benzo(a)pyrene	ND	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Benzo(b)fluoranthene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Benzo(g,h,i)perylene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Benzo(k)fluoranthene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Chrysene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Dibenz(a,h)anthracene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Fluoranthene	ND	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Fluorene	1.16	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Naphthalene	93.0	0.513		μg/L	10	4/29/2005 9:31:00 AM	
Phenanthrene	0.226	0.0513		µg/L	1	4/28/2005 6:12:00 PM	
Pyrene	ND	0.0513		μg/L	1	4/28/2005 6:12:00 PM	
Surr: 2-Fluorobiphenyl	53.6	18.6-106		%REC	1	4/28/2005 6:12:00 PM	
Surr: Nitrobenzene d5	74.4	47 400		N/DEC			

74.1

103

17-130

39.6-131

%REC

%REC

4/28/2005 6:12:00 PM

4/28/2005 6:12:00 PM

CLIENT: Environmental Complemental Project: Powell-Molalla / 0510		west, Inc.			Lab Order: 0504106			
Lab ID: 0504106-31				Collection Date	4/26/2	005 2:30:00 PM		
Client Sample ID: B-9-W				Matrix	AQUI	EOUS		
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed		
NWTPH-DX		NWTPH-DX				Analyst M		
Diesel	2.83	0.255	L	mg/L	1	Analyst: tlf		
Lube Oil	ND	0.509	_	mg/L	1	4/27/2005 4/27/2005		
Surr: o-Terphenyl	76.0	50-150		%REC	1	4/27/2005		
		00 100		701 CEO		4/2//2005		
BTEX - RBC		SW8021B				Analyst: tlf		
Benzene	82.3	0.400		μg/L	1	4/27/2005		
Toluene	9.81	0.500		μg/L	1	4/27/2005		
Ethylbenzene	131	5.00		μg/L	10	4/27/2005		
Xylenes, Total	76.6	1.50		µg/L	1	4/27/2005		
Surr: 4-Bromofluorobenzene	103	74.8-126		%REC	10	4/27/2005		
Surr: 4-Bromofluorobenzene	137	74.8-126	S,MI	%REC	1	4/27/2005		
WTPH-GX		NWTPH-GX				Analyst: tlf		
Gasoline	9170	1000		µg/L	10	4/27/2005		
Surr: BFB	108	50-150		%REC	10	4/27/2005		
OW LEVEL PAH BY GC/MS OARSIM		8270SIM				Analyst: bda		
Acenaphthene	0.220	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Acenaphthylene	0.0900	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Anthracene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Benz(a)anthracene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Benzo(a)pyrene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Benzo(b)fluoranthene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Benzo(g,h,i)perylene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Benzo(k)fluoranthene	ND	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Chrysene	ND	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Dibenz(a,h)anthracene	ND	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Fluoranthene	ND	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Fluorene	0.760	0.0500		µg/L	1	4/28/2005 5:09:00 PM		
Indeno(1,2,3-cd)pyrene	ND	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Naphthalene	106	0.500		µg/L	10	4/29/2005 10:02:00 AM		
Phenanthrene	0.220	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Pyrene	ND	0.0500		μg/L	1	4/28/2005 5:09:00 PM		
Surr: 2-Fluorobiphenyl	62.2	18.6-106		%REC	1	4/28/2005 5:09:00 PM		
Surr: Nitrobenzene-d5	71.4	17-130		%REC	1	4/28/2005 5:09:00 PM		
Surr: p-Terphenyl-d14	119	39.6-131		%REC	1	4/28/2005 5:09:00 PM		

CLIENT:

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

Date: 06-May-05

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID MBLK	SampType		TestCod	de: BTEXRBO	S Units: mg/Kg		Prep Date	: 4/27/20	005	Run ID: GC-I_050427B	
Client ID: ZZZZZ	Batch ID:	13287	TestN	No: SW8021B			Analysis Date	e: 4/27/2 0	005	SeqNo: 321946	
Analyte	****	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qua
Benzene		0.0045	0.0250							TO DEFINE	Qua
Toluene		0.009	0.100								J
Ethylbenzene		0.0045	0.100								J
Xylenes, Total		0.034	0.300								J
Surr:4-Bromofluorobenzene		4.981	0	5	0	99.6	42.6	126	0	0	J
Sample ID MBLK	SampType	: MBLK	TestCoo	de: BTEXRBC	S Units: mg/Kg	-	Prep Date	: 5/4/200	5	Run ID: GC-I_050504B	
Client ID: ZZZZZ	Batch ID:	13336	TestN	lo: SW8021B			Analysis Date			SeqNo: 323375	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD RPDLimit	Qua
Benzene		0.006	0.0250								
Toluene		0.0235	0.100								J
Ethylbenzene		0.0055	0.100								J
Xylenes, Total		0.0435	0.300								J
Surr:4-Bromofluorobenzene		6.715	0.0500	5	0	134	42.6	126	0	0	J S
Sample ID LCS	SampType:	LCS	TestCod	e: BTEXRBC	S Units: mg/Kg		Prep Date:	4/27/20	05	Run ID: GC-I 050427B	
Client ID: ZZZZZ	Batch ID:	13287	TestN	o: SW8021B			Analysis Date			SeqNo: 321947	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD RPDLimit	Qua
Benzene		1.032	0.0250	1.25	0.0045	82.2	68.7	117	0	0	
Toluene		1.154	0.100	1.25	0.009	91.6	71.4	115	0		
Ethylbenzene		1.212	0.100	1.25	0.0045	96.6	76.3	115	0	0	
Xylenes, Total		3.704	0.300	3.75	0.034	97.9	70.1	116	0	0	
Sample ID LCS	SampType:	LCS	TestCod	e: BTEXRBC	S Units: mg/Kg		Prep Date:	5/4/200	5	Run ID: GC-I_050504B	
Client ID: ZZZZZ	Batch ID:	13336	TestNo	o: SW8021B	- /		Analysis Date		in.	SeqNo: 323376	
Analyte		Result	PQL	ODI/	SPK Ref Val	%REC		lighLimit			

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blan

Page 1 of 14

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID LCS Client ID: ZZZZZ	SampType: Batch ID:			de: BTEXRB	C_S Units: m	g/Kg	Prep Da Analysis Da	ate: 5/4/20 ate: 5/4/20		Run ID: G SeqNo: 32	C-I_050504B	1
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene		1.215	0.0250	1.25	0.006	96.7	68.7	117			TO DOME	Qua
Toluene		1.363	0.100	1.25		107	71.4	115	_	0		
Ethylbenzene		1.404	0.100	1.25		112	76.3	115		0		
Xylenes, Total		4.358	0.300	3.75		115	70.3	116		0		
Sample ID 0504106-27AMS	SampType:	MS	TestCo	de: BTEXRBO	C_S Units: mg	/Ka-dry	Pren Da	te: 4/27/2	005			
Client ID: B-9-9'	Batch ID:	13287		No: SW8021E							C-I_050427B	
			1000	10. 01100212			Analysis Da	ite: 4/27/2	005	SeqNo: 32	1961	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene		1.468	0.0353	1.763	0.00141	83.2	32.2	108	0	0		
Toluene		1.556	0.141	1.763	0.04302	85.8	56.7	101	0	0		
Ethylbenzene		1.768	0.141	1.763	0.08322	95.6	53.3	107	0	. 0		
Xylenes, Total		5.108	0.423	5.289	0.1559	93.6	47.5	119	0	0		
Sample ID 0504117-01AMS	SampType:	MS	TestCod	de: BTEXRBO	S_S Units: mg	/Kg-dry	Prep Dat	te: 5/4/200	05		C-I_050504B	
Client ID: ZZZZZ	Batch ID:	13336	Test	lo: SW8021B			Analysis Da			SeqNo: 32	_	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Ougl
Benzene	~	3.591	0.0302	1.511	3.676	-5.64					REDUINI	Qua
Toluene		15.58	0.121	1.511	20.15	-3.04	32.2 56.7	108	0	0		S
Ethylbenzene		9.172	0.121	1.511	11.47	-152		101	0	0		S,MC
Kylenes, Total		47.05	0.363	4.534	65.13	-399	53.3 47.5	107	0	0		S,MC
Sample ID 0504106-27AMSD	OT						47.5	119	0	0		S,MC
	SampType:		TestCoo	le: BTEXRBC	S Units: mg	/Kg-dry	Prep Dat	e: 4/27/20	005	Run ID: GC	-I_050427B	
Client ID: B-9-9'	Batch ID:	13287	TestN	lo: SW8021B			Analysis Da	te: 4/27/20	005	SeqNo: 32		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1.424	0.0353	1.763	0.00141	80.7	32.2	108	1.468			Guai
oluene		1.513	0.141	1.763	0.04302	83.4	56.7	101	1.468	3.07	20	
Ethylbenzene		1.742	0.141	1.763	0.08322	94.1	53.3	107	1.768	2.80 1.49	20	
· ·											20	

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Page 2 of 14

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID 0504117-01AMSD Client ID: ZZZZZ	SampType: Batch ID:			de: BTEXRBO No: SW8021E		-	Prep Da Analysis Da	te: 5/4/20 ate: 5/4/20		Run ID: G	C-I_050504B	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene		4.261	0.0302	1.511	3.676	38.7	32.2	108	3.591	17.1	20	
Toluene		18.19	0.121	1.511	20.15	-129	56.7	101	15.58	15.5	20	CAA
Ethylbenzene		10.55	0.121	1.511	11.47	-61.1	53.3	107	9.172	13.9		S,M
Xylenes, Total	-	53.75	0.363	4.534	65.13	-251	47.5	119	47.05	13.3	20 20	S,M S,M
Sample ID CCV	SampType:	CCV	TestCo	de: BTEXRBO	C_S Units: mg/Kg		Prep Da	te·		Dun ID. Co		
Client ID: ZZZZZ	Batch ID:	13287		No: SW8021E			Analysis Da		005	SeqNo: 32	C-I_050427B	
Analyte		Result	PQL	SPK value	SPK Ref Val					Sequo. 32	1946	
Benzene		2.567				%REC		HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Toluene		2.626	0.0250	2.5	0	103	85	115	0	0		
Ethylbenzene		2.571	0.100	2.5	0	105	85	115	0	0		
Xylenes, Total			0.100	2.5	0	103	85	115	0	0		
- Total		7.766	0.300	7.5	0	104	85	115	0	. 0		
Sample ID CCV	SampType:	CCV	TestCo	de: BTEXRBO	S Units: mg/Kg		Prep Dat	e:		Run ID: GO	C-I_050427B	
Client ID: ZZZZZ	Batch ID:	13287	Testi	No: SW8021B	-		Analysis Da	te: 4/27/2 0	005	SeqNo: 32		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene		2.574	0.0250	2.5	0	103	85	115	0		TO DEITH	Qua
Toluene		2.542	0.100	2.5	0	102	85	115	0	0		
Ethylbenzene		2.61	0.100	2.5	0	104	85	115	0	•		
Xylenes, Total		7.824	0.300	7.5	0	104	85	115	0	0		
Sample ID CCV	SampType:	CCV	TestCod	de: BTEXRBC	S Units: mg/Kg		Prep Dat	e:		Run ID: GC	1 0505045	
Client ID: ZZZZZ	Batch ID:	13336	Test	lo: SW8021B			Analysis Dat		5	SeqNo: 32:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	0
Benzene		2.59	0.0250	2.5	0	104	85	115				Qual
Toluene		2.58	0.100	2.5	0	103	85		0	0		
Ethylbenzene		2.55	0.100	2.5	0	103		115	0	0		
Kylenes, Total		7.764	0.300	7.5	0	102	85	115	0	0		
			0.000	7.5	U	104	85	115	0	0		

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Page 3 of 14

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_W

						Market Company					
Sample ID MBLK	SampType: MBL	< TestCo	de: BTEXRBO	_W Units: µg/L		Prep Da	ite: 4/27/2	005	Run ID: G	C-H_050427	R
Client ID: ZZZZZ	Batch ID: 13289) Test	No: SW8021E			Analysis Da			SeqNo: 3		_
Analyte	Resu	ilt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	NE	D 0.400							72	TO DEITH	Que
Toluene	N	D 0.500									
Ethylbenzene	0.0	0.500									
Xylenes, Total	NE	D 1.50									J
Surr:4-Bromofluorobenzene	98.5		100	0	98.5	74.8	126	0	0		
Sample ID MBLK	SampType: MBLK	TestCo	de: BTEXRBC	_W Units: µg/L		Prep Da	te: 4/27/2			C-H_050428	
Client ID: ZZZZZ	Batch ID: 13289		No: SW8021B			Analysis Da			SeqNo: 32		4
Analyte	Resul	lt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	NC	0.400									
Toluene	NE	0.500									
Ethylbenzene	0.07	7 0.500									
Xylenes, Total	NE	1.50									J
Surr:4-Bromofluorobenzene	99.04	4 1.00	100	0	99	74.8	126	0	0		
Sample ID LCS	SampType: LCS	TestCo	de: BTEXRBC	W Units: µg/L		Prep Dat	te: 4/27/2 0	005	RunID: G	C-H_050427E	
Client ID: ZZZZZ	Batch ID: 13289	Test	No: SW8021B			Analysis Da			SeqNo: 32		•
Analyte	Result	t PQL	SPK value	SPK Ref Val	%REC	I owl imit	Highl imit	RPD Ref Val	%RPD	RPDLimit	Qua
					701 420	LOWLITH	riigiiLiiriit				
	25.87		25	0	103				0		-
Toluene	25.87 25.2					75.8 77	113	0	0		
Toluene Ethylbenzene		2 0.500	25	0	103	75.8		0	0		
Benzene Toluene Ethylbenzene Xylenes, Total	25.2	2 0.500 9 0.500	25 25	0	103 101	75.8 77	113 116	0			
Toluene Ethylbenzene Xylenes, Total Sample ID 0504106-31AMS	25.2 24.49	2 0.500 9 0.500 9 1.50	25 25 25 75	0 0 0.06	103 101 97.7	75.8 77 76.6	113 116 118 118	0 0 0 0	0 0	C-H 050427F	
Toluene Ethylbenzene Xylenes, Total Sample ID 0504106-31AMS	25.2 24.49 75.39	2 0.500 9 0.500 9 1.50 TestCoo	25 25 25 75	0 0 0.06 0	103 101 97.7 101	75.8 77 76.6 76.7	113 116 118 118 e: 4/27/2 0	0 0 0 0	0 0	C-H_050427E	1
Toluene Ethylbenzene Xylenes, Total Sample ID 0504106-31AMS Client ID: B-9-W	25.2 24.49 75.39 SampType: MS	2 0.500 9 0.500 9 1.50 TestCoo	25 25 25 75 de: BTEXRBC	0 0 0.06 0	103 101 97.7 101	75.8 77 76.6 76.7 Prep Dat	113 116 118 118 118 e: 4/27/20	0 0 0 0	0 0 0 Run ID: G (
Toluene Ethylbenzene Xylenes, Total Sample ID 0504106-31AMS	25.2 24.49 75.39 SampType: MS Batch ID: 13289	2 0.500 0.500 0.500 TestCoo TestN	25 25 25 75 de: BTEXRBC	0 0 0.06 0 _W Units: µg/L	103 101 97.7 101	75.8 77 76.6 76.7 Prep Dat	113 116 118 118 118 e: 4/27/20	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Run ID: G 0 SeqNo: 32	2006	Qual S.MO

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Page 4 of 14

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_W

Sample ID Client ID:	0504106-31AMS B-9-W	SampType: Batch ID:			de: BTEXRB	C_W Units: µg/L			ate: 4/27/2 ate: 4/27/2		Run ID: G	C-H_0504271	В
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC			RPD Ref Val	%RPD	RPDLimit	Qua
Ethylbenze	ene		159.2	0.500	20	151	40.7	74.5	115				
Xylenes, To	otal		126.5	1.50	60	76.57	83.2	76.8	120	•	0		S,MC
Sample ID	0504106-31AMSD	SampType:	MSD	TestCo	de: BTEXRBO	C_W Units: µg/L		Prep Da	ite: 4/27/2	005	Run ID: G	C-H_050427E	
Client ID:	B-9-W	Batch ID:	13289		No: SW8021E			Analysis Da			SeqNo: 32		3
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene			78.83	0.400	20	82.3	-17.4	67.8	118	80.74			
Toluene			28.31	0.500	20	9.81	92.5	74.7	117	26.4	2.39		S,M
Ethylbenze			162.4	0.500	20	151	56.8	74.5	115	159.2	6.98	20	
Xylenes, To	otal		132.9	1.50	60	76.57	93.9	76.8	120	126.5	2.01 4.96	20 20	S,M
Sample ID	CCV	SampType:	CCV	TestCod	de: BTEXRBO	W Units: µg/L		Prep Da	te:			C-H_050427E	
Client ID:	ZZZZZ	Batch ID:	13289		lo: SW8021B			Analysis Da		005	SeqNo: 32		5
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC			RPD Ref Val	%RPD	RPDLimit	Qua
Benzene			58.76	0.400	60	0	97.9	85	115	0	0		
Toluene			55.83	0.500	60	0	93	85	115	0	0		
Ethylbenzei			54.68	0.500	60	0	91.1	85	115	0	0		
Xylenes, To	otal		164.7	1.50	180	0	91.5	85	115	0	0		
Sample ID	CCV	SampType:	CCV	TestCoo	le: BTEXRBO	_W Units: µg/L	.7	Prep Dat	te:		Run ID: GO	C-H_050428A	
Client ID:	77777	Batch ID:	13289	TestN	lo: SW8021B			Analysis Da		005	SeqNo: 32		•
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene			40.47	0.400	40	0	101	85	115				Qua
			39.18	0.500	40	0	98	85	115	0	0		
Toluene							00	00	113	0	0		
Toluene Ethylbenzer	ne		39.85	0.500	40	0	99.6	85	115	0	0		

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Page 5 of 14



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY UNDERGROUND STORAGE TANK PROGRAM

UNDERGROUND STORAGE TANK DECOMMISSIONING CHECKLIST AND SITE ASSESSMENT REPORT

A. FACILITY INFORMATION:

This report <u>MUST</u> be submitted by the underground storage tank permittee or tank owner, or the licensed DEQ Service Provider on their behalf, within 30 days following completion of the tank decommissioning or change-in-service regardless of ongoing cleanup work.

DEQ FACILITY NUMBER: 6024	
FACILITY NAME: Molalla Kwik GAS	
FACILITY ADDRESS: 307 S. MAIN (Actually Molalla, or 97038	305 W. MAIN STROTT
PERMITTEE PHONE:	DATE: 4/2/07

B. WORK PERFORMED BY:

The checklist and site assessment report should be completed and signed by the DEQ licensed supervisor and signed by an executive officer of the DEQ licensed Service Provider on page 6. The tank owner or permittee must review and sign the report on page 6. NOTE: AN OWNER OR PERMITTEE MAY PERFORM UST SERV ICES ONLY IF THEY HAVE TAKEN AND PASSED THE APPROPRIATE UST SUPERVISOR EXAMINATION OFFERED BY A NATIONAL TESTING SERVICE (SEE OAR 340-150-0156 for requirements).

DEQ Service Provider's License #: 26252 Construction Contractors Board Lic	ense #: 16381 3
Name: NW Tranklings & Inspect	Ton
Telephone: 360-253-3619	
DEQ Decommissioning Supervisor's License #:	
Name: John Day	
Telephone: 503 - 372 - 9760	
DEQ Soil Matrix Service Provider's License #:	(If applicable)
Name: ENV. Compliante NW, Ir	
Telephone: 503-172-9760	
DEQ Soil Matrix Supervisor's License #: 12542	(If applicable)
Name: John Day	

Notice - Date Submitted: 9/18/66 (3 working days before work starts). (24/36 Date Work Completed: 10/6/36 rmation if any soil or water contamination is found during the decommissioning or change-in- reported by the UST permittee within 24 hours. The licensed service provider must report fiter discovery unless previously reported. (Product piping) Duty 0 155/05 By:		Decommissioning/Change-in-Service Notice - Date Submitted:(30 days before work starts).
rmation if any soil or water contamination is found during the decommissioning or change-in- reported by the UST permittee within 24 hours. The licensed service provider must report first discovery unless previously reported. Poorted: 3/15/05 By: Duty OFFICER		Work Start Telephone Notice - Date Submitted: 9/18/66 (3 working days before work starts).
rmation if any soil or water contamination is found during the decommissioning or change-in- reported by the UST permittee within 24 hours. The licensed service provider must report first discovery unless previously reported. ported: 3/15/05 By: Duty 07-510 CPC		DEQ Person Notified: Greg Toran
rmation if any soil or water contamination is found during the decommissioning or change-in- reported by the UST permittee within 24 hours. The licensed service provider must report first discovery unless previously reported. ported: 3/15/05 By: Duty 07-510 CPC		Date Work Started: 9/24/06 Date Work Completed: 10/6/06
Duty OFFICER	ervice	Provide the following information if any soil or water contamination is found during the decommissioning or change-in. Contamination must be reported by the UST permittee within 24 hours. The licensed service provider must report ination within 72 hours after discovery unless previously reported.
		Date Contamination Reported: 3/15/05 By:
AV BE NEEDED WHERE SOIL OR WATER CLEANUR IS DECLUDED.		DEQ Person Notified: Duty OFFICER
AV BE NEEDED WHERE SOIL OR WATER CLEANUR IS DECLUDED.	41	
IAV RE NEEDED WHERE SOIL OF WATER OF EANURIS DECLIDED (1)/4/		
THE RELEASE WHERE SOIL OR WATER CLEANUP IS REQUIRED.	D. OT	HER DEQ PERMITS MAY BE NEEDED WHERE SOIL OR WATER CLEANUP IS REQUIRED.

E. TANK INFORMATION:

Water Disposed to (Location):

			DIESEL,	GASOLINE, USED OIL, IER?	CLOSURE	OR CHANGE-IN	- SERVICE?	1	TO BE ACED?
TANK ID#	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE◆	CHANGE IN SERVICE◆	YES*	NO
4	ABCED	10,000	GAS					7	/
3	ABEEE	10,000	piesel		V				V
2	ABUEF	10,000	GAS		V				/
1	ABCE G	10,000	GAS		\checkmark				
		,							

NOTE 1: Where decommissioned tank(s) are replaced by new underground storage tanks the UST permittee must submit a *General Permit Registration Form to Install and Operate USTs* containing information on the new tanks 30 days before installing them.

NOTE 2: Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, 3) tank contains a regulated substance other than petroleum, or 4) tank changed to non-regulated use.

F. DISPOSAL INFORMATION:

	Т	ANK AN	D PIPINO	G DISPOSAL METHOD	DISPOSAL LOCATION OF TANK CONTENTS				
TANK ID#	SCRAP	LAND- FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS *	SLUDGES *			
i	V			CHARLA City metals	N/A	NA			
2	/				NIA	NA			
3					NA	NA			
4	/			V	NA	NA			
19									

NOTE 1: The tank contents, the tank and the piping may be subject to the requirements of Hazardous Waste regulations. If you have questions, contact the DEQ regional office for your area.

NOTE 2: Attach copies of the disposal receipts for the tanks and piping. If the tanks are shipped off-site for reuse provide the name, address and phone number of the person or business receiving the tanks for reuse.

NOTE 3: Attach copies of the disposal receipts for the disposal or treatment of liquid or sludge removed from the tanks

G. CONTAMINATION INFORMATION:

TANK ID#	GROUND * WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
1	NO	Y25	y es	1	THALATIN OR 503-612-9007
2	NO	~0	NO	1	
4	NO	~0	NO	i	V

NOTE 1: Attach a copy of the laboratory report showing the results of all tests on all soil and water samples. The laboratory report must identify sample collection methods, sample location, sample depth, sample type (soil or water), type of sample container, sample temperature during transportation, types of tests, and copies of analytical laboratory reports, including QA/QC information. Include laboratory name, address and copies of chain-of-custody forms.

NOTE 2: If contamination is detected and a Level 2 or Level 3 soil matrix cleanup standard is applied to the site, attach a copy of the soil matrix analysis including methods of determining soil type, depth to groundwater, and sensitivity of uppermost aquifer.

separate drawing.)	Figure 1	

Fire Extinguisher: Type/Size: Cass J-C Recharge Date: /-06 Combustible Gas Detector: Model: MT-40 (Insustricular Insulation Date: /-06

Combustible Gas Detector: Model: MT-40 (Insustrialal pration Date: 1-06

Oxygen Analyzer: Model: Bachanack Calibration Date: 1-06

J. DECOMMISSIONING:

All Tanks: N/A = Not Applicable (Check ($$) Appropriate Box)	YES	NO	UNKNOWN	N/A
1. All electrical equipment grounded and explosion proof?				
2. Safety equipment on job site?	V			
3. Overhead electrical lines located?	/			
4. Subsurface electrical lines off or disconnected?	V			
5. Natural gas lines off or disconnected?	/			
6. No open fires or smoking material in area?	/			
7. Vehicle and pedestrian traffic controlled?	V			
8. Excavation material area cleared?	/			
9. Rainwater runoff directed to treatment area?	/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4-1-25	
10. Drained and collected product from lines?				/
11. Removed product and residual from tank?	A			/
12. Cleaned tank?	/	1 - 1		
13. Excavated to top of tank?	V		2.	
14. Removed tank fixtures? (pumps, leak detection equipment)	/			
15. Removed product, fill and vent lines?	\checkmark			

K. TANK ABANDONMENT IN-PLACE: (N/A)

All Tanks: N/A = Not Applicable (Check ($$) Appropriate Box)	YES	NO	UNKNOWN	N/A
16. Sampling plan approved by DEQ? Date: DEO Staff:	19			
17. Contamination concerns fully resolved?				
18. Fill Material? Type:				

APR 18 2007 15:36

T 4	STEE	REA	-		
		не и.л	ти вт	. A	•

All Tanks: N/A = Not Applicable (Check (1) Appropriate Box)	YES	NO	UNKNOWN	N/A
19. Tank placement area cleared, chocks placed?	1	1		
20. Purged or ventilated tank to prevent explosion? Method used: DOSTSING OXPHRENMENT II love! Meter reading: C. 10.70	/	,		
21. Were chains or steel cables wrapped around tank for removal?				/
22. Tank removed, set on ground, blocked to prevent movement?				
23. Tank set on truck and secured with straps(s)?	/			
24. Tank labeled before leaving site?				

M. SITE ASSESSMENT:

All Tanks: N/A = Not Applicable (Check (1) Appropriate Box)	YES	NO	UNKNOWN	N/A
25. Site assessed for contamination? See OAR 340-122-0340	/			1
26. Soil samples taken and analyzed?	/			8
27. Was contamination found? Date/Time: 9/24/06 (5)(15/05)	/		370 13	
28. Was hazardous waste determination made for tank contents (Liquids/sludges)?				1

N. REQUIRED SIGNATURES:

have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.
Permittee of Tank Owner: JASon Poutell (Please Print)
Permittee or Tank Owner: ASON JONGE Date: 4/17/07.
have personally reviewed this decommissioning checklist and site assessment report and the attachments and find hom to be true and complete.
icensed Supervisor: John Oran (Please Print)
icensed Supervisor: Date: 3/15/07
have personally reviewed this decommissioning checklist and site assessment report and the attachments and find term to be true and complete.
Accustive Officer: J. Scott Borlo et S Icensed Service Provider (Please Print)
censed Service Provider (Signature)

O. REPORT FILING:

This report signed by the permittee or tank owner, licensed supervisor and executive officer of the Service Provider, complete with all applicable attachments, must be filed with the DEQ regional office within 30 days after the excavation is backfilled or change-in-service is complete. Do not wait until any site related cleanup project is completed. Contact the DEO regional office prior to filing this report where special circumstances exist at the site (such as water in pit, remaining pockets of contamination, etc.).

P. HELP WITH THIS REPORT:

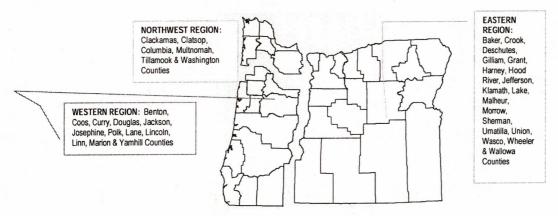
If you have any questions about this decommissioning checklist and site assessment report, please phone your DEQ Regional Office. You can also phone the UST Program's toll-free number, 1-800-742-7878. This is a message answering machine for calls made within Oregon. Underground Storage Tank Program staff will return your calls within 24 hours. You can also send an e-mail to tanks.info@deq.state.or.us. Our regional staff are also available to answer questions regarding tank decommissioning or change-in-service requirements (see below for telephone numbers).

O. COPIES OF THE GENERAL PERMIT TO DECOMMISSION OR COMPLETE A CHANGE-IN-SERVICE:

Obtain copies of the general permit to decommission or complete a change-in-service conditions and requirements, UST Program rules and laws and UST Cleanup rules and laws at:

- 1. Any of the DEQ offices listed below,
- 2. By calling the UST HELPLINE at 1-800-742-7878,
- 3. Send an e-mail to tanks.info@deq.state.or.us or
- 4. Downloading from the UST home page at:

http://www.deq.state.or.us/wmc/tank/ust-lust.htm



EASTERN REGION / THE DALLES

400 E. Scenic Drive, Building 2 - 307

The Dalles, OR 97058 Phone: 541-298-7255

Fax: 541-298-7330

WESTERN REGION / EUGENE

1102 Lincoln Street, Suite 210 Eugene, OR 97401

Phone: 541-686-7838 Fax: 541-686-7551

NORTHWEST REGION

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-5884

Phone: 503-229-5263

Fax: 503-229-6945

WESTERN REGION / SALEM

750 Front Street NE, Suite 120

Salem, OR 97301-1039

Phone: 503-378-8240

Fax: 503-373-7944

WESTERN REGION / COOS BAY

381 N SECOND STREET

COOS BAY 97420

Phone: 541-269-2721

Fax: 541-269-7984



SCRAP METAL RECYCLING

Customer:

P.O. Box 5191 Salem, OR 97304-0191 (503) 588-0721

Purchase Ticket

Purchase Ticket # Purchase Date

12799

Account Rep Richard

Terms

COD 10/6/06

P O Box 230163 Portland, OR 97281

John Day - ECNW, Inc

Item Name			Gross	Tare	Net	Net/Price UI	Price	Total
Received: 10/05	/2006	WT	Ticket #S 21	420				rotar
	ntainer Num spatch #:	12 14,693	43,800.0	32,820.0	10,980.0 LB Chasis #	10,980.00 LB 915	\$0.0000 LB	\$0.00

TERMS AND CONDITIONS

I have read the current list of materials Cherry City Metals will not accept for regulatory and environmental reasons. I warrant that the materials I am selling Cherry City Metals do not contain any of the materials described on the list or contain any of the materials described on the list or contain hazardous or toxic wastes for which disposal in a municipal is landfill is restricted or prohibited. I warrant that all materials, including tanks, sealed motors and metal borings, have been fully and lawfully drained of all oils and oil products. I further warrant that any items that contained ozone depleting compounds such as CFC's or Freon, have been emptied in accordance with applicable laws.

I warrant that I am the lawful owner of the materials being sold and that I have the right to sell them to Cherry City Metals. I acknowledge that for the payment I received in full, I sell and convey title to the materials to Cherry City Metals. I also understand that Cherry City Metals is not responsible for the accidents to the materials or to vehicles while loading or unloading.

Lagree to indemnify and hold harmless Cherry City Metals against all claims and expenses arising out of any breach of these warranties.

RECEIVED BY: PAYMENT RECEIVED IN FULL

 Cash Paid
 \$0.00

 Check Paid
 \$0.00

 Check Number
 0



P.O. Box 5191 Salem, OR 97304-0191 (503) 588-0721

Purchase Ticket

Purchase Ticket #
Purchase Date

12821 10/7/06

Customer:

John Day - ECNW, Inc

P O Box 230163 Portland, OR 97281 Account Rep Richard

Terms

COD 10/7/06

Item Name)		Gross	Tare	Net	Net/Price UI	Price	Total
Received:	10/06/2006	WT	Ticket #S 2	1432				
Unprepared	Container Num Dispatch #;	12 14.694	42,380.0	33,080.0	9,300.0 LB Chasis #	9,300.00 LB 915	\$0.0000 LB	\$0.00
Received:	10/06/2006	WT	Ticket #S 2	1439				
Unprepared	Container Num Dispatch #:	12 14,702	42,360.0	33,000.0	9,360.0 LB Chasis #	9,360.00 LB 915	\$0.0000 LB	\$0.00
Received:	10/06/2006	WT	Ticket #S 2	1458				
Unprepared	Container Num Dispatch #:	12 14,703	43,120.0	32,960.0	10,160.0 LB Chasis #	10,160.00 LB 915	\$0.0000 LB	\$0.00

TERMS AND CONDITIONS

I have read the current list of materials Cherry City Metals will not accept for regulatory and environmental reasons. I warrant that the materials I am selling Cherry City Metals do not contain any of the materials described on the list or contain any of the materials described on the list or contain hazardous or toxic wastes for which disposal in a municipal is landfill is restricted or prohibited. I warrant that all materials, including tanks, sealed motors and metal borings, have been fully and lawfully drained of all cils and oil products. I further warrant that any items that contained ozone depleting compounds such as CFC's or Freon, have been emptied in accordance with applicable laws.

I warrant that I am the lawful owner of the materials being sold and that I have the right to sell them to Cherry City Metals. I acknowledge that for the payment I received in full, I sell and convey title to the materials to Cherry City Metals. I also understand that Cherry City Metals is not responsible for the accidents to the materials or to vehicles while loading or unloading.

Lagree to indemnify and hold harmless Cherry City Metals against all claims and expenses arising out of any breach of these warranties

RECEIVED BY:

PAYMENT RECEIVED IN FULL

Cash Paid \$0.00 Check Paid \$0.00 Check Number 0

Hillsboro, OR, 97123 Ph: (503)–640–9427

Payment Type Manual Ticket# Hauling Ticket Route State Waste Co Manifest Destination PO Profile	03/29/2007 Credit Accou # de NA 100628/0000 100628/0000	int	Vehicle# Container Driver Check# Billing # Gen EPA II	4301 RICHARD 0000371	CELORIE BROTHE Volume	ERS TRUCKI
	7 11:31:15 7 11:31:15	Scale Inbound 1	Operator sdm sdm	Inbound	Gross Tare Net Tons	107180 lb 38900 lb 68280 lb 34.14

Consumer Comments? We want to know. Please call.

pr	oduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Cont Soil Pet-RGC- EVL-Env Fee Lg.	100 100	34.14	Tons Load	25.92 4.00	71.01		CLACK-DUT

Total Tax \$71.01 Total Ticket \$959.92



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, CR, 97123 Ph: (503)-640-9427

Original T:cket# 1050371

Volume

Customer Name STRATUSCORP STRATUS CORPORATI Carrier Ticket Date 03/29/2007 Payment Type Credit Account Vehicle# 71 Container. Manual Ticket# Driver Hauling Ticket# Checks

Route State Waste Coda

Manifest NO Destination

Profile Generator

Comments

DO

100528/0000 1006280R (PCS)

168-POWELL Powell Distributing

Scale In 03/29/2007 13:33:33

Inbound 1 Out 03/29/2007 14:05:15 Outbound

Operator BML.

Grid

BML

Gen EPA ID

Inbound Grass Tara

Not

Tone

STRATUS CORPORATION

HOBERT

Billing # 0000371

70120 12440

1 13 6.22

82560

16

Time

Consumer Comments? We want to know. Please call.

Product LDX	Oby Low	Park	Таж	tount	Origin
1 Cont Sail Pat-PAC- 100 E EML-Env Fee Lg. 100	6.22 Tons 1 Load	25, 92 4, 80	12,34		MULT-IN MULT-IN

Total Tax Total Ticket

*18.94° 1178.16

Driver's Signature

403WM

Robert Tecken 900

(3)

MATRIX CHECKLIST

<u></u>	The release of petroleum has been reported to the DEQ (0220).
<u>√</u> 2.	The Matrix Score Sheet has been completed for this site, unless the site is cleaned up to the most stringent cleanup level (0320).
<u>√</u> 3.	The required hydrocarbon identification test (NWTPH-HCID) has been performed (0335(3)), and, if detectable levels were found, the appropriate analytical method or methods have been used to measure the levels of contamination (0218).
<u>√</u> 4.	A sketch has been made of this site (0345(1)) which clearly shows:
<u>v</u>	a. The location of all buildings and other key features, both man-made and natural;
\checkmark	b. The names of adjacent streets and properties;
	 The location of all excavations including those that were for the removal of tanks and associated piping as well as those that were strictly for the removal of contaminated soils;
<u> </u>	d. The location of all product storage tanks, lines and dispensers, including those that were decommissioned as well as those that remain on the site; and
/	e. All soil and water sample locations.
<u>√</u> 5.	If any contaminated soil exceeding matrix limits has been left on site, the reason for leaving this soil has been explained and the requirements of 0340(1)(f) and 0355(4) have been met.
J/A 6.	If water was present in the tank pit, the Department was notified, the water was pumped from the pit, and the requirements of 0340(4) have been met.
<u>√</u> 7.	All soil and/or water samples have been collected, coded, stored and shipped as specified in the rules, and proper chain-of-custody forms have been filled out (0345).
<i>√</i> / A 8.	If a release from a waste oil tank was discovered, at least one sample has been analyzed by the methods specified in 0218(1)(b)(D).
V/A 9.	If a tank was decommissioned in place, the Department gave prior approval for a site-specific sampling plan (0340(5)).
<u>/</u> 10	. A report has been prepared which includes a detailed description of everything that was observed and performed at the site, contains all of the information required by the rules (0360), and presents findings and recommendations which are consistent with Departmental regulations.

MATRIX SCORE SHEET

1.	Depth to Groundwater < 25 feet 25 - 50 feet 51 - 100 feet > 100 feet	(10) (7) (4) (1)	10
2.	Mean Annual Precipitation > 45 inches 20 - 45 inches < 20 inches	(10) (5) (1)	5
3.	Native Soil Type Course sands, gravels Silts, fine sands Clays	(10) (5) (1)	10
4.	Sensitivity of Uppermost Aquifer Sole Source Current Potable Future Potable Non-potable	(10) (7) (4) (1)	4
5.	Potential Receptors Many, near Medium Few, far	(10) (5) (1)	5
	TOTAL SCORE	=	34

MATRIX	Cleanup Level (ppm TPH)				
SCORE	Gasoline	Diesel			
Level 1: > 40 pts. Level 2: 25 - 40 pts. Level 3: < 25 pts.	40 80 130	100 500 1000			



Fill Ends of USTs Exposed



Excavating to Tops of The USTs



Removing Tank No. 1 (Eastern UST)



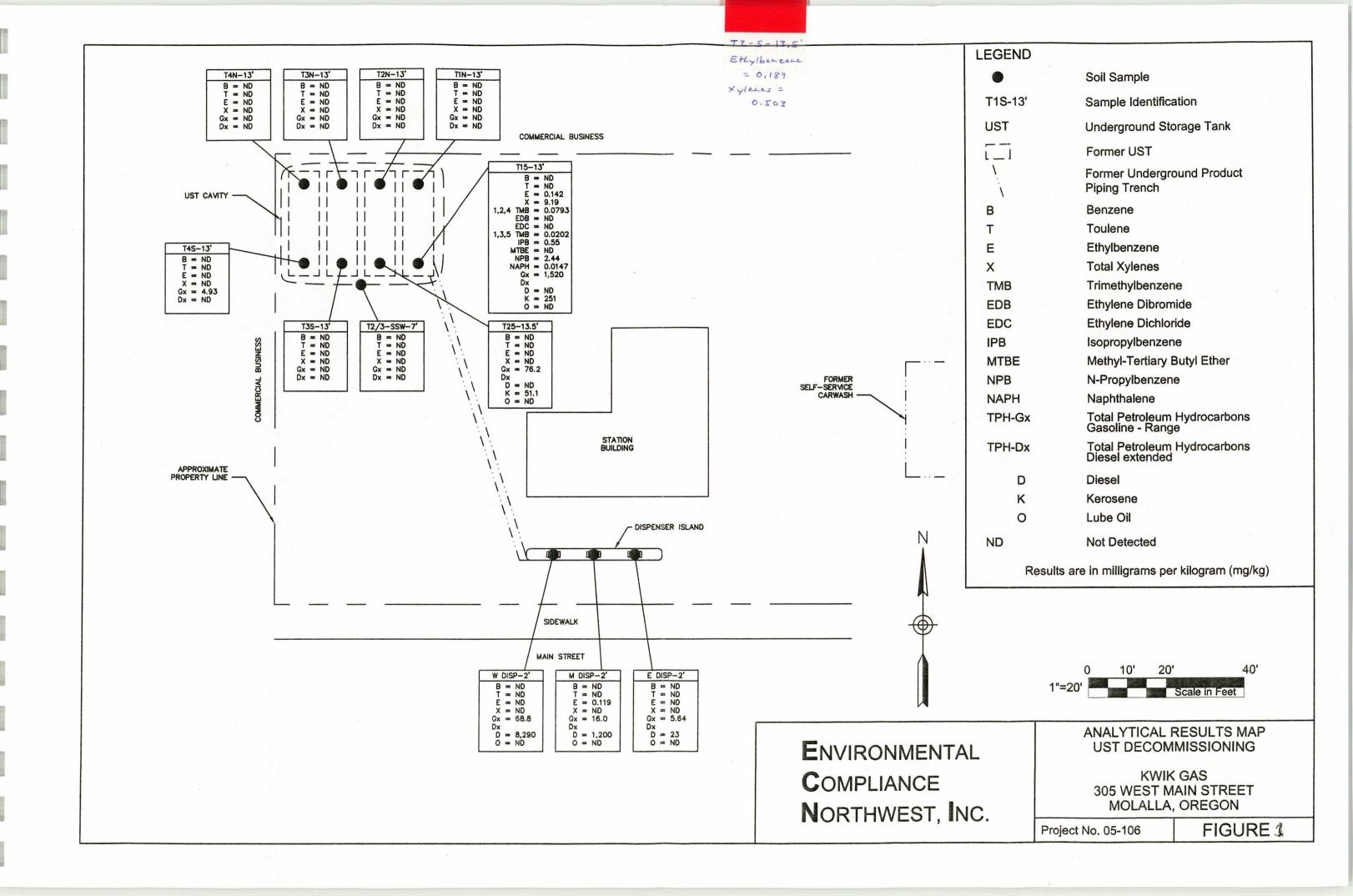
Bottom of UST Cavity (East Side) and Product Piping Trench



Three of the Four USTs Awaiting Transport



Backfilled UST Cavity with Contaminated Soil Stockpile in Left Rear.



APPENDIX C



19761 S.W. 95th Avenue Tualatin, OR 97062 (503) 612-9007 Fax (503) 612-8572 1 (877) 612-9007

March 21, 2005

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

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

RE: Powell- Molalla / 05106

Dear John Day:

Order No.: 0503061

Specialty Analytical received 3 samples on 3/16/2005 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,

Ned Engleson

Project Manager

Technical Review

Date: 21-Mar-05

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell- Molalla / 05106

Lab Order:

0503061

Lab ID:
Client Sample ID:
Analyses

0503061-01

PL-1-3'

Collection Date: 3/15/2005 8:25:00 AM

				Matrix:	SOIL		
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed	
NWTPH-HCID		NWHCID					
Gasoline	Gasoline			mg/Kg-dry	1	Analyst: tif	
Mineral Spirits	ND	24.2				3/16/2005	
Kerosene	ND	60.4		mg/Kg-dry	1	3/16/2005	
Diesel	ND	60.4	A 2	mg/Kg-dry	1	3/16/2005	
Lube Oil	ND		A3	mg/Kg-dry	1	3/16/2005	
Surr: BFB	161	121	0.14	mg/Kg-dry	1	3/16/2005	
Surr: o-Terphenyl	100	50-150	S,MI	%REC	1	3/16/2005	
	100	50-150		%REC	1	3/16/2005	
BTEX - RBC		SW8021B				A 1 1 10	
Benzene	16.7	0.604		mg/Kg-dry	20	Analyst: tlf 3/18/2005	
Toluene	102	2.42		mg/Kg-dry	20		
Ethylbenzene	29.0	2.42		mg/Kg-dry	20	3/18/2005	
Xylenes, Total	146	7.25		mg/Kg-dry	20	3/18/2005	
Surr: 4-Bromofluorobenzene	11 0	42.6-126	S.D	%REC		3/18/2005	
IWTPH-GX		12.0 120	0,0	70NEC	20	3/18/2005	
Gasoline		NWTPH-GX				Analyst: tif	
The state of the s	1100	151		mg/Kg-dry	50	3/17/2005	
Surr: 4-Bromofluorobenzene	8.78	50-150	S,D	%REC	50	3/17/2005	

Lab ID: Client Sample ID:	0503061-02 PL-1-5'				Collection Date:	3/16/2005 8:40:00 AM SOIL	
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC			SW8021B				
Benzene		85.8	3.58		mg/Kg-dry	100	Analyst: tif
Toluene		664	14.3		mg/Kg-dry	100	3/17/2005
Ethylbenzene		169	14.3		mg/Kg-dry	100	3/17/2005
Xylenes, Total		901	42.9		mg/Kg-dry	100	3/17/2005
Surr: 4-Bromofluorobenzene	4.00	42.6-126	SD	%REC	100	3/17/2005 3/17/2005	
WTPH-GX Gasoline			NWTPH-GX				Analyst: tlf
Surr: 4-Bromofluorober	-1-	8370	358		mg/Kg-dry	100	3/17/2005
	obenzene	10.9	50-150	S,D	%REC	100	3/17/2005

Date: 21-Mar-05

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell- Molalla / 05106

Lab Order:

0503061

Lab ID:

0503061-03

Collection Date: 3/16/2005 9:10:00 AM

Client Sample ID: PL2-2.75'				Matrix:	SOIL	03 9:10:00 AM
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	12.6 97.2 70.1 541 2.60	SW8021B 1.58 6.31 6.31 18.9 42.6-126	S,D	mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry %REC	50 50 50 50	Analyst: tlf 3/17/2005 3/17/2005 3/17/2005 3/17/2005 3/17/2005
NWTPH-GX Gasoline Surr: 4-Bromofluorobenzene	5730 10.5	NWTPH-GX 158 50-150	S,D	mg/Kg-dry %REC	50 50	Analyst: tif 3/17/2005 3/17/2005

CLIENT:

Environmental Compliance Northwest, Inc.

Work Order:

0503061

Project:

Powell-Molalla/05106

Date: 21-Mar-05

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID MBLK Client ID: ZZZZZ	SampType Batch ID:			le: BTEXRB(o: SW8021B	3	g	Prep Date Analysis Date			Run ID: GC-I_050317D SeqNo: 315114	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		HighLimit RPDR	of Val		
Benzene		ND	0.0250					- I I I I I I I I I I I I I I I I I I I	ei vai	%RPD RPDLimit	Qual
Toluene		0.04	0.100								
Ethylbenzene		ND	0.100								J
Xylenes, Total		0.03	0.300								
Surr:4-Bromofluorobenzene		4.88	0.000	5	0	97.6	42.6	126	0		J
Sample ID MBLK	SampType:	MBLK	TestCode	e: BTEXRBC	S Unite: mall/				-	0	
Client ID: ZZZZZ	Batch ID:			SW8021B			Prep Date: Analysis Date:			Run ID: GC-I_050318D SeqNo: 315224	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	l owl imit	lighLimit RPD Re			
Benzene		ND	0.0250			74 20	COWLITTIL	IIGHUMIK RPD RE	et Val	%RPD RPDLimit	Qual
Toluene		ND	0.100								
Ethylbenzene		ND	0.100								
Kylenes, Total		ND	0.300								
Surr:4-Bromofluorobenzene		4.38	0	5	0	87.6	42.6	126	0	0	
Sample ID MBLK	SampType:	MBLK	TestCode	BTEXRBC	S Units: mg/Kg		D D-1				
Client ID: ZZZZZ	Batch ID:	13027		SW8021B	e onits. Hig/Kg		Prep Date: Analysis Date:	3/18/2005 3/21/2005		Run ID: GC-I_050321B SeqNo: 315447	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit Hi	ighLimit RPD Re	f \ /ol	0/500	
enzene		ND	0.0250					SIGNIC RED RE	vai	%RPD RPDLimit	Qual
oluene		ND	0.100								
thylbenzene		ND	0.100								
ylenes, Total		ND	0.300								
Surr:4-Bromofluorobenzene		4.04	0	5	0	80.8	42.6	126	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 Blan

Page 1 of 6

Environmental Compliance Northwest, Inc.

Work Order:

0503061

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

	ZZZZ	SampType: Batch ID:			e: BTEXRBO o: SW8021E	C_S Units: mg/K	3	Prep Da Analysis Da	ate: 3/18/2 ate: 3/21/2		Run ID: 0	6C-I_050321 15449	В
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene			1.1	0.0250	1.25	0	88	68.7					Qua
Toluene			1.34	0.100	1.25	0	107	71.4	115		(
Ethylbenzene			1.28	0.100	1.25	0	102	76.3	115		C		
Xylenes, Tota	il		3.83	0.300	3.75	0	102	70.3	116		0		
Sample ID 0	503061-01AMS	SampType:	MS	TestCode	e: BTEXRBO	S Units: mg/K	n-dry	Pren Da	ite: 3/18/2				
Client ID: P	L-1-3'	Batch ID:	13027		: SW8021B		, ary					C-I_050321E	3
				103040	. SVV6021B	1		Analysis Da	ate: 3/21/2	005	SeqNo: 3	15450	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene			8.696	0.604	30.19	16.67	-26.4	32.2	108	0	0		
Toluene			89.37	2.42	30.19	102.2	-42.4	56.7	101	0			S,MC
Ethylbenzene			27.05	2.42	30.19	28.99	-6.4	53.3	107	0	0		S,MC
Xylenes, Tota	l		142	7.25	90.58	146.4	-4.8	47.5	119	0	0		S,MC
	03061-01AMSD	SampType:	MSD	TestCode	BTEXRBC	_S Units: mg/Kg	-dry	Prep Dat				C-I_050321E	S,MC
Client ID: PI	1-3'	Batch ID:	13027	TestNo	: SW8021B		-	Analysis Da					5
Analyte								, mary sis Da	ic. 3/21/20	303	SeqNo: 31	5451	
			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			7.729	0.604	30.19	16.67	-29.6	32.2	108	9,000	44.0		
Toluene			109.2	2.42	30.19	102.2	23.2	56.7	101	8.696	11.8	20	S,MC
Ethylbenzene			41.06	2.42	30.19	28.99	40	53.3	107	89.37	20.0	20	S,MC
Xylenes, Total			224.9	7.25	90.58	146.4	86.7	47.5	119	27.05 142	41.1 45.2	20	S,R,M
Sample ID CO	CV	SampType:	CCV	TestCode	BTEXRBC	S. Heiter and				142		20	R,MC
Client ID: ZZ	777	Batch ID:				_S Units: mg/Kg		Prep Dat			Run ID: G	C-I_050317D	
		Batarib.	13021	restino	SW8021B			Analysis Dat	te: 3/17/20	05	SeqNo: 31	5115	
Analyte	H 15		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	Highl imit	RPD Ref Val	9/ DDD	DDDI: :	
Benzene			35.5	0.0250	40	0				THE VAL	%RPD	RPDLimit	Qual
Toluene			38.05	0.100	40	0	88.8	85	115	0	0		
Ethylbenzene			36.1	0.100	40	0	95.1	85	115	0	0		
Xylenes, Total			111.5	0.300		0	90.2	85	115	0	0		
			111.5	0.300	120	0	92.9	85	115	0	0		

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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Page 2 of 6

Environmental Compliance Northwest, Inc.

Work Order:

0503061

Project:

Powell- Molalla / 05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID CCV Client ID: ZZZZZ	SampType: Batch ID:			de: BTEXRBC	5 5		Prep Da				C-I_050318D	
Analyte		Result	PQL		SPK Ref Val	%REC	Analysis Da LowLimit		RPD Ref Val	SeqNo: 3	RPDLimit	Qual
Benzene Toluene		37.19 39.11	0.0250 0.100	40 40	0	93 97.8	85 85	115 115	0	0		- Gudi
Ethylbenzene Xylenes, Total		38.45 116.6	0.100 0.300	40 120	0	96.1 97.2	85 85	115 115	0	0		
Sample ID CCV Client ID: ZZZZZ	SampType: Batch ID:	CCV 13027		e: BTEXRBC	5 5		Prep Da Analysis Da	te:	0	Run ID: Go	C-I_050321B 5448	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Foluene		56.18 63.09	0.0250 0.100	60 60	0	93.6 105	85 85	115 115	0	0		
									0	0		

Environmental Compliance Northwest, Inc.

Work Order:

0503061

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID MBLK Client ID: ZZZZZ	SampType Batch ID:			e: HCID_NW b: NWHCID	Units: mg/Kg		Prep Da Analysis Da	te: 3/16/2		Run ID: G	GC-M_050316	6B
Analyte	8	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	0
Gasoline		14.23	20.0						- III D I TOI Vai	70IN-D	RPDUMI	Qual
Mineral Spirits		ND	20.0									J
Kerosene		ND	50.0									
Diesel		34.24	50.0									
Lube Oil		ND	100									J
Surr: BFB		91.11	0	100	0	04.4	50					
Surr: o-Terphenyl		99.17	0	100	0	91.1	50	150		0		
				100	0	99.2	50	150	0	0		
Sample ID 0503061-01ADUP	SampType:	DUP	TestCode	HCID_NW	Units: mg/Kg-	dry	Prep Date	e: 3/16/2	005	D 10 0		
Client ID: PL-1-3'	Batch ID:	13023		NWHCID						Run ID: G	C-M_050316	В
			1001110	INVITOR			Analysis Dat	e: 3/16/2	005	SeqNo: 31	14896	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	RPD Ref Val	0/1000		
Gasoline		235	24.2					riigiiLiriit	KPD Rei Vai	%RPD	RPDLimit	Qual
Mineral Spirits		ND	24.2	0	0	0	0	0	367.9	44.1	20	
Kerosene		ND	60.4	0	0	0	0	0	0	0	20	
Diesel		112.3	60.4	0	0	0	0	0	0	0	20	
Lube Oil		19.67	121	0	0	0	0	0	115.8	3.05	20	
		19.07	12 i	0	0	0	0	0	0	0	20	J
Sample ID 0503062-03ADUP	SampType:	DUP	TestCode:	HCID_NW	Units: mg/Kg-c	irv	Prep Date	3/16/2	005	D ID		
Client ID: ZZZZZ	Batch ID:	13023	TestNo:	NWHCID	55						C-M_050316E	3
•			1001110.	WWICID		-	Analysis Date	e: 3/16/2	005	SeqNo: 31	4897	
Analyte		Result	PQL S	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	RPD Ref Val	0/1000		
Gasoline	,	17.94	21.0	^			LOWEITH	- IIgriciiii	KFD Rei Vai	%RPD	RPDLimit	Qual
Mineral Spirits		ND	21.0	0	0	0	0	0	18.15	0	20	J
Kerosene		ND	52.4	0	0	0	0	0	0	0	20	
Diesel		ND		0	0	0	0	0	0	0	20	
_ube Oil		206.2	52.4	0	0	0	0	. 0	0	0	20	А3
		/Un /	105	0	0	0	0				_0	, 10

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 Blan

Page 4 of 6

 $Environmental \, Compliance \, Northwest, Inc. \,$

Work Order:

0503061

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID 0503063-01ADUP Client ID: ZZZZZ	SampType: DUP Batch ID: 13023		de: HCID_NW do: NWHCID	Units: mg/K	-	Prep Da Analysis Da			Run ID: G SeqNo: 31	C-M_050316I	3
Analyte Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mineral Spirits Kerosene Diesel Lube Oil	1303 ND ND 24570 ND	24.0 24.0 60.0 60.0 120	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1227 0 0 22440	6.04 0 0 9.05	20 20 20 20 20	Qual

Environmental Compliance Northwest, Inc.

Work Order:

0503061

Project:

Powell- Molalla / 05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID ME	BLK	SampType	MDLK	T.O. I.	
	ZZZ	Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 3/17/2005 Run ID: GC-I_050317C TestNo: NWTPH-Gx Analysis Date: 3/17/2005 SeqNo: 314950	
Analyte			Result	PQL SPK value SPK Ref Val %REC Lowl imit Highl imit RRD Ref Val	
Gasoline Surr:4-Brom	ofluorobenzene	# + · · · · · · · · · · · · · · · · · ·	ND 78.5	2.50 0 100 0 78.5 50 150 0 0	Qua
Sample ID LC: Client ID: ZZZ		SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 3/17/2005 Run ID: GC-I_050317C TestNo: NWTPH-Gx Analysis Date: 3/17/2005 SeqNo: 314951	
Analyte Gasoline			Result		Qua
	3061-01ADUP	SampType:	27.07	2.50 30 0 90.2 53.5 121 0 0	
Client ID: PL-		Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 3/17/2005 Run ID: GC-I_050317C TestNo: NWTPH-Gx Analysis Date: 3/17/2005 SeqNo: 314956	
Analyte Gasoline			Result	PQL SPK value SPK Ref Val %REC Lowl imit. High limit. BBD Bat Value support	Qual
			954.1	151 0 0 0 0 0 1101 14.3 20	
Sample ID CCV Client ID: ZZZ		SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050317C TestNo: NWTPH-Gx Analysis Date: 3/17/2005 SeqNo: 314952	
Analyte			Result	PQL SPK value SPK Ref Val %REC Lowl imit Highl imit RRD Ref Val	\
Gasoline			2092	2.50 2000 0 105 80 120 0 0	Qual
Sample ID CCV Client ID: ZZZ		SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050317C TestNo: NWTPH-Gx Analysis Date: 3/17/2005 SeqNo: 314957	
Analyte Gasoline			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu	ual
			3083	2.50 3000 0 103 80 120 0 0	

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

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 great 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.
- L 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 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.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Company___

Contact Person/Project Manager John Dag

ECN

Page___of__



Specialty Analytical 19761 S.W. 95th Place

Tualatin, OR 97062

(503) 612-9007 - Phone					Addr	ess	- 1	PO	130	X	230163		
(503) 612-8572 - Fax					_			PTC)	ER	97281		
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19761 S.W. 95th Avenue Tualatin, OR 97062 (503) 612-9007 Fax (503) 612-8572 1 (877) 612-9007

April 18, 2005

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

TEL: 503-372-9760

FAX 503-213-9980

RE: Powell-Mollala / 05106

Dear John Day:

Order No.: 0504047

Specialty Analytical received 2 samples on 4/12/2005 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,

Ned Engleson

Project Manager

Technical Review

Date: 18-Apr-05

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell-Mollala / 05106

Lab Order:

0504047

Lab ID:	0504047-01				Collection Date:	4/12/20	005 12:30:00 PM
Client Sample ID:	S1-\$28				Matrix:	SOIL	
Analyses	, , , , , , , , , , , , , , , , , , ,	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC			SW8021B				
Benzene		5.91	0.321		mg/Kg-dry	10	Analyst: tif 4/13/2005
Toluene		3.98	1.28		mg/Kg-dry	10	4/13/2005
Ethylbenzene		48.7	1.28		mg/Kg-dry	10	4/13/2005
Xylenes, Total		113	3.85		mg/Kg-dry	10	4/13/2005
Surr: 4-Bromofluo	robenzene	19.0	42.6-126	S,D	%REC	10	4/13/2005
NWTPH-GX			NWTPH-GX				
Gasoline		3120	64.2		mg/Kg-dry	20	Analyst: tlf
Surr: 4-Bromofluor	robenzene	26.7	50-150	S.D	%REC	20	4/13/2005 4/13/2005
	29						4/13/2005
Lab ID:	0504047-02	700			Collection Date:	4/12/200	05 12:50:00 PM
Client Sample ID:	S2-6'				Matrix:	SOIL	12.50.00 1141
Analyses		Result	Limit	Qual		DF	Date Analyzed
WTPH-HCID			NWHCID				
Gasoline		Gasoline					Analyst: tlf
Mineral Spirits		ND	32.2 32.2		mg/Kg-dry	1	4/13/2005
Kerosene		ND	80.5		mg/Kg-dry	1	4/13/2005
Diesel		Diesel	80.5		mg/Kg-dry	1	4/13/2005
Lube Oil		ND	161		mg/Kg-dry	1	4/13/2005
Surr: BFB		144	50-150		mg/Kg-dry	1	4/13/2005
Surr: o-Terphenyl		107	50-150		%REC %REC	1	4/13/2005
WTPH-DX					701 NEO	'	4/13/2005
Diesel			NWTPH-DX	100			Analyst: tlf
Lube Oil		32.6	16.4	L	mg/Kg-dry	1	4/13/2005
Surr: o-Terphenyl		ND 103	54.6		mg/Kg-dry	1	4/13/2005
		102	50-150		%REC	1	4/13/2005
WTPH-GX			NWTPH-GX				Analyst: tlf
Gasoline		530	27.3		mg/Kg-dry	10	4/15/2005
Surr: 4-Bromofluoro	benzene	21.2	50-150	S,D	%REC	10	4/15/2005

CLIENT:

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

Date: 18-Apr-05

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID Client ID:	MBLK ZZZZZ	SampType Batch ID:			de: BTEXRB		g/Kg	Prep Da Analysis Da	ite: 4/13/2 ate: 4/13/2		Run ID: 0	GC-I_050413 <i>I</i>	\
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD		Qua
Benzene			ND	0.0250							7011		Qua
Toluene			0.01	0.100									
Ethylbenze			ND	0.100									J
Xylenes, T			0.05	0.300									
Surr:4-E	Bromofluorobenzene		5.56	0	5	0	111	42.6	126	0	0	,	J
Sample ID	LCS	SampType:	LCS	TestCod	e: BTEXRB(C_S Units: mg	g/Ka	Prep Dat	te: 4/13/2				
Client ID:	77777	Batch ID:	13199		o: SW8021E		3.1.3	Analysis Da			SeqNo: 3	C-I_050413A 19700	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			1.13	0.0250	1.25	0	90.4	68.7	117	0			- Guu
Toluene			1.29	0.100	1.25	0.01	102	00.1	115	0	0		
Ethylbenze			1.35	0.100	1.25	0	108	76.3	115	0	0		
Kylenes, To	otal		4.13	0.300	3.75	0.05	109		116	0	0		
	0504047-01AMS	SampType:	MS	TestCod	e: BTEXRBO	S_S Units: mg	/Kg-dry	Prep Date	e: 4/13/2 0	005	Pum ID: C	01.0504404	
Client ID:	S1-5.8'	Batch ID:	13199	TestNe	o: SW8021B			Analysis Dat			SeqNo: 31	C-I_050413A 19703	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			6.547	0.321	16.05	5.905	4	32.2	108	0			
oluene			0.5995	1.28	16.05	3.979	-21.1	56.7	101	0	0		S,MC
thylbenze			43.13	1.28	16.05	48.65	-34.4	53.3	107	0	0		S,MI
(ylenes, To	otai		96.15	3.85	48.14	113.4	-35.7	47.5	119	0	0		S,MI S,MC
	0504047-01AMSD	SampType:	MSD	TestCode	: BTEXRBC	_S Units: mg	/Kg-dry	Prep Date	e: 4/13/20	105	D ID	21.050445	
	S1-5.8'	Batch ID:	13199		: SW8021B			Analysis Date			Run ID: Go SeqNo: 31	C-I_050413A 9704	
nalyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			5.905	0.321	16.05	5.905	0	32.2	108	6.547	10.3	20	S,MC

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blan

Page 1 of 8

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID	SampType:		TestCod	e: BTEXRBO	C_S Units: mg/Kg	-dry	Prep Da	te: 4/13/2	005	Run ID: GO	C-I_050413A	
Client ID: S1-5.8'	Batch ID:	13199	TestN	o: SW8021E			Analysis Da	te: 4/13/2	005	SeqNo: 31		
Analyte		Result	PQL .	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene Ethylbenzene		0.6418	1.28	16.05	3.979	-20.8	56.7	101	0.6418	0	20	S,MI
Xylenes, Total		41.08 103.2	1.28 3.85	16.05 48.14	48.65 113.4	-47.2 -21.1	53.3 47.5	107 119	43.13	4.88	20	S,MI
Sample ID CCV	SampType:			e: BTEXRBO			Prep Dat		96.15	7.08 Run ID: G 0	20 -I_ 050413A	S,MC
£	Batch ID:	13199	TestNo	o: SW8021B			Analysis Da	te: 4/13/20	005	SeqNo: 31	9701	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Foluene		48.3 50.84	0.0250	50	0	96.6	85	115	0	0	7	
Ethylbenzene Kylenes, Total		50.56	0.100 0.100	50 50	0	102 101	85 85	115 115	0	0		
cylenes, rotal		153.9	0.300	150	0	103	85	115	0	0		

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID MBLK Client ID: ZZZZZ	SampType			ode: HCID_NW	Units: mg/K	g	Prep Da	te:		Run ID: G	GC-M_050413	A
CHOILED.	Batch ID:	13196	Tes	tNo: NWHCID			Analysis Da	ate: 4/13/2	005	SeqNo: 3		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	0
Gasoline		ND	20.0							7014 15	N-DUITIIL	Qua
Mineral Spirits		ND	20.0									
Kerosene		ND	50.0									
Diesel		ND	50.0									
Lube Oil		ND	100									
Surr: BFB		93.19	0	100	0	93.2	50	450				
Surr: o-Terphenyl		99.5	0	100	0		50	150	0	0		
				100	U	99.5	50	150	0	0		
Sample ID 0504045-07ADUP	SampType:	DUP	TestCo	ode: HCID_NW	Units: mg/K	g-dry	Prep Dat	te: 4/13/2	005	Run ID: G	C-M_050413/	^
Client ID: ZZZZZ	Batch ID:	13196	Test	No: NWHCID			Analysis Da			SeqNo: 31		•
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	23.4	0	0	0						Quai
Mineral Spirits		ND	23.4	0	0	0	0	0	0	0	20	
Kerosene		ND	58.5	0			0	0	0	0	20	
Diesel		ND	58.5	0	0	0	0	0	0	0	20	
Lube Oil		ND	117	0		0	0	0	0	0	20	
				0	0	0	0	0	0	0	20	
Sample ID 0504047-02ADUP	SampType:	DUP	TestCo	de: HCID_NW	Units: mg/K	g-dry	Prep Dat	e: 4/13/20	005	Run ID: G	C-M_050413A	
Client ID: S2-6'	Batch ID:	13196	Test	No: NWHCID			Analysis Dat			SeqNo: 31		`
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		624.3	32.2	0	0	0	0					
Mineral Spirits		ND	32.2	0	0	0		0	159.6	119		R
Kerosene		ND	80.5	0	0	-	0	0	0	0	20	
Diesel		361.8	80.5	0	0	0	0	0	0	0	20	
ube Oil		ND	161	0	0	0	0	0	107.4	108	20	R
			101	U	U	0	. 0	0	0	0	20	

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 Blanl

Page 3 of 8

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

								csicoue.	NWIFHL)A_S	
Sample ID MBLK Client ID: ZZZZZ	SampType: MBLK Batch ID: 13197		e: NWTPHDX_S	Units: mg/Kg		Prep Date Analysis Date	e: 4/13/200		Run ID: (GC-M_05041;	3B
Analyte	Result	PQL	SPK value SF	PK Ref Val	%REC			RPD Ref Val	%RPD		01
Diesel Lube Oil Surr: o-Terphenyl	ND 16.6 33.56	50.0	33.33	0	101		150	0	/84-15		Qual
Sample ID LCS Client ID: ZZZZZ	SampType: LCS Batch ID: 13197		NWTPHDX_S	Units: mg/Kg		Prep Date Analysis Date	: 4/13/200)5		GC-M_050413	B
Analyte	Result	PQL	SPK value SF	PK Ref Val	%REC	LowLimit I	HighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil	179.8 183.7	15.0 50.0	167.6 167.6	0 16.6	107 99.7	76.3	122 127	0	0		Qual
Sample ID 0504045-07 . Client ID: ZZZZZ	AMS SampType: MS Batch ID: 13197		NWTPHDX_S	Units: mg/Kg		Prep Date: Analysis Date	: 4/13/200 e: 4/13/200		Run ID: G SeqNo: 3	C-M_050413	В
Analyte	Result	PQL	SPK value SP	K Ref Val	%REC	LowLimit H	HighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil	206.1 217.4	17.6 58.5	195.1 195.1	0 12.51	106 105	76.3 69.9	122 127	0	0		Gada
Sample ID 0504045-07 , Client ID: ZZZZZ	SampType: MSD Batch ID: 13197		NWTPHDX_S NWTPH-Dx	Units: mg/Kg-		Prep Date: Analysis Date	4/13/200			C-M_050413	В
Analyte	Result	PQL :	SPK value SP	K Ref Val	%REC	LowLimit H	ighLimit R	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil	198.4 206.5	17.6 58.5	195.1 195.1	0 12.51	102 99.4	76.3 69.9	122 127	206.1 217.4	3.79 5.16		
Sample ID 0504041-08A Client ID: ZZZZ	DUP SampType: DUP Batch ID: 13197		NWTPHDX_S NWTPH-Dx	Units: mg/Kg-	-	Prep Date: Analysis Date:	4/13/2005 4/13/2005		Run ID: Go SeqNo: 31	C-M_050413E	3
Analyte	Result	PQL S	SPK value SPI	K Ref Val	%REC	LowLimit H	lighLimit R	PD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	16.4	0	0	0	0	0	0	0	20	
				_							

Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blan

Page 4 of 8

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID	0504041-08ADUP	SampType:	DUP	TestCo	ode: NWTPHI	DX_S Units: mg/Kg					
Client ID:	77777	Batch ID:	13197		No: NWTPH-I		j-ury	Analysis D	ate: 4/13/ ate: 4/13/		Run ID: GC-M_050413B SeqNo: 319754
Analyte		11	Result	PQL	SPK value	SPK Ref Val	%REC			RPD Ref Val	0/200
Lube Oil			ND	54.8	0	0	0	0			%RPD RPDLimit Qual
	CCV ZZZZZ	SampType: Batch ID:			de: NWTPHD No: NWTPH-	OX_S Units: mg/Kg		Prep Da Analysis Da			0 20 Run ID: GC-M_050413B SeqNo: 319738
Analyte ————— Diesel			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Lube Oil			755.4 337.9	15.0 50.0	666.6 333.3	0	113 101	85 85	115 115	J	0
Sample ID	ccv	SampType:	CCV	TestCo	de: NWTPHD	X_S Units: mg/Kg		Prep Da			
	<u> </u>	Batch ID:	13197		lo: NWTPH-D			Analysis Da		005	Run ID: GC-M_050413B SeqNo: 319755
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Diesel Lube Oil			757.8 329.3	15.0 50.0	666.6 333.3	0	114 98.8	85 85	115 115		0 0

Environmental Compliance Northwest, Inc.

WorkOrder:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

											71_D	
Sample ID MBL	_	Type: MBLK n ID: 13198		NWTPHGX_S	6 Units: mg/Kg		Prep Date Analysis Date	e: 4/13/2 (Run ID: 0	GC-I_050413B	
Analyte		Result	PQL	SPK value SI	PK Ref Val	%REC			RPD Ref Val	%RPD		
Gasoline Surr:4-Bromofl		ND 84.61	2.50 0	100	0	84.6		150	0	/arv-D	, a Dearing	Qual
Sample ID MBLK Client ID: ZZZZ	_	ype: MBLK ID: 13213		NWTPHGX_S	Units: mg/Kg		Prep Date Analysis Date	e: 4/14/20 e: 4/14/20		1	C-I_050414A	
Analyte		Result	PQL	SPK value SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Surr:4-Bromoflu		ND 4.754	2.50 0	5	0	95.1		150	0	0		Gudi
Sample ID MBLK Client ID: ZZZZZ		ype: MBLK ID: 13213		NWTPHGX_S NWTPH-Gx	Units: mg/Kg		Prep Date Analysis Date			RunID: G	C-I_050415B	
Analyte		Result	PQL S	SPK value SP	K Ref Val	%REC	LowLimit 1	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Surr:4-Bromoflu	orobenzene	ND 4.144	2.50 0	5	0	82.9	50	150	0	0		Quai
Sample ID LCS Client ID: ZZZZZ		/pe: LCS ID: 13198		NWTPHGX_S NWTPH-Gx	Units: mg/Kg		Prep Date: Analysis Date			Run ID: Go	C-I_050413B 9706	
Analyte		Result	PQL S	PK value SP	K Ref Val	%REC	LowLimit F	HighLimit (RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		28.72	2.50	30	0	95.7	53.5	121	0	0		
Sample ID LCS Client ID: ZZZZZ		pe: LCS D: 13213		NWTPHGX_S NWTPH-Gx	Units: mg/Kg		Prep Date: Analysis Date:			Run ID: G0 SeqNo: 31	C-I_050414A 9994	
Analyte Gasoline	,	Result 29.57	PQL S	PK value SPI	K Ref Val	%REC	LowLimit H			%RPD	RPDLimit	Qual
			2.00	30	U	98.6	53.5	121	0	0		

Qualifiers:

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Page 6 of 8

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample D 0504055-06ADUP SampType DIP TestCode NWTPHGX Sunic mg/Kg-dry Prep Date 4/14/205 Run D GC 050414A				restcode. NWIPHGX_S
Analyte Result PQL SPK value SPK Ref Val SPK	Client ID:			TestNo: NWTPH-Gy
Sample Sa			Result	PQL SPK value SPK Ref Val %PEC Louding to the time to
Sample D Soudist-SolaDup SampType Dup	Gasoline		3548	64.2 0 0 0 0 0 0
Sasoline	Client ID:			TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 4/14/2005 Run ID: GC-I_050414A
Sample D CCV SampType CCV TestCode NWTPHGX S Units mg/Kg Prep Date Frep Date Run D GC-I _050413B			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPD imit O
Sample ID CCV SampType: CCV TestCode: NWTPHGX: Units: mg/Kg Prep Date: Run ID: GC-I050413B Client ID: ZZZZZZ Batch ID: 13198 TestNo: NWTPH-GX: Units: mg/Kg Prep Date: 4/13/205 SeqNo: 319707 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Q Gasoline CCV SampType: CCV TestCode: NWTPHGX: Units: mg/Kg Prep Date: RUn ID: GC-I050413B Analyte PCCV SampType: CCV TestCode: NWTPHGX: Units: mg/Kg Prep Date: 4/13/205 RegNo: 319715 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPD Imit Q Gasoline CCV SampType: CCV TestCode: NWTPHGX: Units:<	Gasoline		2.202	2.67 0 0 0 0 0 1 100
Analyte	Client ID:			TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050413B
Sample D CCV SampType: CCV TestCode: NWTPH-GX SPK Ref Val SPK Ref Val Seq No: Sample D CCV SampType: CCV TestCode: NWTPH-GX SPK Ref Val SPK Ref Va	Analyte	1 /	Result	PQL SPK value SPK Ref Val 9/DFC
Sample ID CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050413B Accidention of the policy of the po	Gasoline		1786	2.50 2000 0 89.3 80 400
Gasoline 2725 2.50 2500 0 109 80 120 0 0 0	Client ID:			TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050413B
Sample D CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run D: GC-I_050414A			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu
Sample ID CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A Client ID: ZZZZZZ Batch ID: 13213 TestNo: NWTPH-Gx Analysis Date: 4/14/2005 SeqNo: 319995 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu Gasoline 141 2.50 150 0 94 80 120 0 0 Sample ID CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A Client ID: ZZZZZ Batch ID: 13213 TestNo: NWTPH-Gx Analysis Date: 4/14/2005 SeqNo: 320009	Gasoline		2725	2.50 2500 0 100 00 100
Gasoline	Client ID:			TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A
Sample ID CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A			Result	
Sample ID CCV SampType: CCV TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A Client ID: ZZZZZ Batch ID: 13213 TestNo: NWTPH-Gx Analysis Date: 4/14/2005 SeqNo: 320009	Gasoline		141	2.50 150 0 04 80 400
Analyta	Client ID:		13213	TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu	Analyte		Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua

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Page 7 of 8

Environmental Compliance Northwest, Inc.

Work Order:

0504047

Project:

Powell-Mollala/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID	CCV	SampType:	CCV	Took Code: ANATONICOUS CO.	
Client ID:	ZZZZZ	Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050414A TestNo: NWTPH-Gx Analysis Date: 4/14/2005 SeqNo: 320009	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Q	Qual
Gasoline			127.9	2.50 125 0 102 80 120 0 0	Zuai
Sample ID Client ID:	ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050415B TestNo: NWTPH-Gx Analysis Date: 4/15/2005 SeqNo: 320240	
Analyte Gasoline			Result	PQL SPK value SPK Ref Val %REC Lowl imit Highlimit RRD Ref Val	Qual
Gasoline	<u> </u>		2048	2.50 2000 0 102 80 120 0 0	···
	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050415B TestNo: NWTPH-Gx Analysis Date: 4/15/2005 SeqNo: 320245	
Analyte Gasoline		-0-	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu	lual
Gasoille			2572	2.50 2500 0 103 80 120 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 great 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.
- L 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 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.

Rev Dec 15, 2004

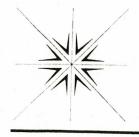
CHAIN OF CUSTODY RECORD

Page___of___



Specialty Analytical
19761 S.W. 95th Place

Specialty Analytical 19761 S.W. 95th Place Tualatin, OR 97062 (503) 612-9007 - Phone (503) 612-8572 - Fax					Contac Compa Addres	iny	Proje	Ct Ma	(or.	230	163 2281	7	
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Date Time Sample I.D.	Matrix	1	3	W		-	Ι						
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Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.			Ų					Recei	ved For I	ab Bv		+ Deta	
Copies: White-Original Yellow-Project File	Pink-Custo	mer C	ору					1			Tinton	Date	Time



19761 S.W. 95th Avenue Tualatin, OR 97062 (503) 612-9007 Fax (503) 612-8572 1 (877) 612-9007

May 06, 2005

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

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

RE: Powell-Molalla / 05106

Dear John Day:

Order No.: 0504106

Specialty Analytical received 31 samples on 4/26/2005 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,

Ned Engleson

Project Manager

Technical Review

HOLD PER CLIENT REQUEST

Hold

Specialty A	nalytical				Date: 06-May-05					
CLIENT: Project:	Environmental C Powell-Molalla /	ompliance Northw 05106	vest, Inc.			Lab Orde	r: 0504106			
Lab ID:	0504106-01				Collection D.A.	1/26/20	0.5.0.50			
Client Sample ID:					Collection Date		05 8:50:00 AM			
Analyses		Result	Limit	t Qua	Matrix l Units	: SOIL DF	Date Analyzed			
HOLD PER CLIENT Hold	REQUEST	HOLD	PER CLIEN	IT		1	Analyst: ADI 4/28/2005			
Lab ID:	0504106-02				Collection Date:	4/26/200	05 8:55:00 AM			
Client Sample ID:	B-1-10'				Matrix:		3 8:33:00 AM			
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed			
NWTPH-DX			MACTRU DA							
Diesel		67.0	NWTPH-DX 18.3				Analyst: tlf			
Lube Oil		ND	60.9	L	mg/Kg-dry	1	4/27/2005			
Surr: o-Terpheny	1. 1	82.9	50-150		mg/Kg-dry %REC	1 1	4/27/2005			
STEX - RBC		_			MICLO	1	4/27/2005			
Benzene			SW8021B				Analyst: tlf			
Toluene		ND 7.04	0.305	Q	mg/Kg-dry	10	4/27/2005			
Ethylbenzene		7.81	1.22		mg/Kg-dry	10	4/27/2005			
Xylenes, Total		11.2	1.22		mg/Kg-dry	10	4/27/2005			
Surr: 4-Bromofluo	robenzene	54.4 18.4	3.65 42.6-126	0.0	mg/Kg-dry	10	4/27/2005			
		10.4	42.0-120	S,D	%REC	. 10	4/27/2005			
IWTPH-GX Gasoline			WTPH-GX				Analyst: tif			
Surr: 4-Bromofluor		1120	30.5		mg/Kg-dry	10	4/27/2005			
Cuit. 4-DIOIIIOIIUOI	obenzene	33.4	50-150	S,D	%REC	10	4/27/2005			
ab ID:	0504106-03				Collection Date:	1/26/2005	0.40.00 437			
lient Sample ID:	B-2-4'			•			9:40:00 AM			
nalyses					Matrix:	SOIL				
		Result	Limit	Qual	Units	DF	Date Analyzed			

PER CLIENT

HOLD

Analyst: ADM

4/28/2005

1

Date:

CLIENT: Project:	Environmental Powell-Molalla	Compliance North / 05106	iwest, Inc.			Lab Orde	r: 0504106
Lab ID: Client Sample ID:	0504106-04 B-2-7'				Collection Da		05 9:45:00 AM
Analyses		Result	Limi	t Qua	Units	DF	Date Analyzed
BTEX - RBC			SWOOAD	- 7	ζ.		2
Benzene		2.10	SW8021B 0.296			-	Analyst: tif
Toluene		2.79	0.200		mg/Kg-dry	10	4/27/2005
Ethylbenzene		4.89	1.18		mg/Kg-dry	10	4/27/2005
Xylenes, Total		6.02	3.55		mg/Kg-dry	10	4/27/2005
Surr: 4-Bromofluo	orobenzene	26.5			mg/Kg-dry	10	4/27/2005
		20.3	42.6-126	S,D	%REC	10	4/27/2005
NWTPH-GX			NWTPH-GX	(Analyst 416
Gasoline		1050	29.6		mg/Kg-dry	10	Analyst: tif 4/27/2005
Surr: 4-Bromofluc	robenzene	50.2	50-150		%REC	10	4/27/2005
al ID							
Lab ID:	0504106-05				Collection Date	: 4/26/200	5 9:55:00 AM
Client Sample ID:	B-2-11'				Matrix		7.55.00 ANI
Analyses		Result	Limit	Qual		DF	Date Analyzed
IOLD PER CLIENT F Hold	REQUEST	HOLD	PER CLIENT			1	Analyst: ADN 4/28/2005
ab ID:	0504106-06				Collection Date:	1/26/2005	10:00:00 AM
lient Sample ID:	B-2-13'			•			10:00:00 AM
					Matrix:	SOIL	
nalyses		Result	Limit	Qual	Units	DF	Date Analyzed
OLD PER CLIENT R Hold	EQUEST	HOLD	PER CLIENT			1	Analyst: ADM 4/28/2005
ab ID:	0504106-07			-	- II		
ient Sample ID:				C	ollection Date:		10:10:00 AM
	U-J-J				Matrix:	SOIL	
nalyses		Result	Limit (Qual	Units	DF	Date Analyzed
DLD PER CLIENT RE	EQUEST	HOLD F	PER CLIENT)	1 .	Analyst: ADM 4/28/2005

Date:

CLIENT: Project:	Environmental Powell-Molalla	Compliance Nort / 05106	hwest, Inc.		\	Lab Order	0504106
Lab ID:	0504106-08				Collection Date	: 4/26/200	5 10:15:00 AM
Client Sample ID:	B-3-6'				Matrix		
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
BTEX - RBC			SW8021B			2.1	
Benzene		ND	0.0347				Analyst: tlf
Toluene		ND	0.0347		mg/Kg-dry	1	4/27/2005
Ethylbenzene		ND.			mg/Kg-dry	1	4/27/2005
Xylenes, Total		ND	0.139		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromoflue	orobenzene	121	0.416		mg/Kg-dry	1 /	4/27/2005
		121	42.6-126		%REC	1	4/27/2005
NWTPH-GX			NWTPH-GX				Anglyst Mf
Gasoline		45.7	3.47		mg/Kg-dry	1	Analyst: tif 4/27/2005
Surr: 4-Bromofluc	probenzene	125	50-150		%REC	1	4/27/2005
100 7 / 100			18-10-11				
ab ID:	0504106-09			(Collection Date:	4/26/2005	10:20:00 AM
Client Sample ID:	B-3-11'						10.20.00 AIVI
Analyses					Matrix:	SOIL	
		Result	Limit	Qual	Units	DF	Date Analyzed
IOLD PER CLIENT I Hold	REQUEST	HOLD	PER CLIENT			1	Analyst: ADI 4/28/2005
ab ID:	0504106-10				ollection Date:	1/26/2005	11.20.00 414
lient Sample ID:	B-4-3'						11:20:00 AM
					Matrix:	SOIL	
nalyses		Result	Limit	Qual	Units	DF	Date Analyzed
TEX - RBC			SW8021B			2	
Benzene		. ND	0.0333		mg/Kg-dry	1 .	Analyst: tif
Toluene		ND	0.133		mg/Kg-dry		1/27/2005
Ethylbenzene		ND	0.133		mg/Kg-dry		1/27/2005
(ylenes, Total		ND	0.399				1/27/2005
Surr: 4-Bromofluoro	benzene	117	42.6-126		mg/Kg-dry %REC		1/27/2005
VTPH-GX					/or NEC	1 4	/27/2005
Sasoline			NWTPH-GX				Analyst: tif
		NID.	0.00				
Surr: 4-Bromofluoro		ND 114	3.33	r	ng/Kg-dry	1 4	/27/2005

Date:

CLIENT: Project:	Environmental Cor Powell-Molalla / 05		west, Inc.		4. 4. a 1	Lab Order	: 0504106
Lab ID: Client Sample ID:	0504106-11 B-4-6'				Collection Date		05 11:25:00 AM
Analyses		Result	Limit	Qua	l Units	DF	Date Analyzed
BTEX - RBC Benzene			SW8021B				Analyst: tif
Toluene		ND	0.0333		mg/Kg-dry	1	4/27/2005
Ethylbenzene		ND	0.133		mg/Kg-dry	1	4/27/2005
Xylenes, Total		ND	0.133		mg/Kg-dry	1	4/27/2005
Surr: 4-Bromoflu	orobonzena	ND	0.399		mg/Kg-dry	1	4/27/2005
Suit. 4-Bioinoliu	orobenzene	123	42.6-126		%REC	. 1	4/27/2005
NWTPH-GX			NWTPH-GX				Ameliat 416
Gasoline		ND	3.33		mg/Kg-dry	1	Analyst: tlf 4/27/2005
Surr: 4-Bromofluo	orobenzene	117	50-150		%REC	1	4/27/2005
Lab ID:	0504106-12				Collection Date:	4/26/2005	11:30:00 AM
Client Sample ID:	B-4-9'				Matrix:	4/20/2003 SOIL	11:30:00 AM
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT Hold	REQUEST	HOLD	PER CLIENT			1	Analyst: ADN 4/28/2005
ab ID:	0504106-13				Collection Date:	4/26/2005	11:45:00 AM
Client Sample ID:	B-5-3'				Matrix:	SOIL	11.43.00 AIVI
Analyses		Result	Limit (Qual	Units	DF	Date Analyzed
IOLD PER CLIENT F Hold	REQUEST	HOLD	PER CLIENT			1	Analyst: ADM 4/28/2005

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

0304106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID MBL Client ID: ZZZ	Campiy	pe: MBLK D: 13281		o: NWTPH-D	(_S Units: mg/Kg	g	Prep Da Analysis Da	te: 4/25/2 te: 4/27/2		Run ID: GC-M_0 SeqNo: 322010)50427B
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	DLimit Qua
Diesel		ND	15.0								- Quu
Lube Oil		ND	50.0								
Surr:o-Terphe	nyl	29.55	0	33.33	0	88.7	50	150	0	0	
Sample ID LCS	SampTy	pe: LCS	TestCod	e: NWTPHD X	(_S Units: mg/Kg	3	Prep Dat	te: 4/25/2	005	Run ID: GC-M_0	E0427D
Client ID: ZZZ	ZZ Batch I	D: 13281		o: NWTPH-D			Analysis Da			SeqNo: 322011	30427B
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	Limit Qua
Diesel		161.9	15.0	167.6	0	96.6	76.3	122	0	0	
Lube Oil		176.9	50.0	167.6	0	106	69.9	127	0	0	
Sample ID 0504	092-01ADUP SampTyp	pe: DUP	TestCod	e: NWTPHDX	S Units: mg/Kg	g-dry	Prep Dat	e: 4/27/2	005	Run ID: GC-M_0	E0427D
Client ID: ZZZZ	Z Batch II	D: 13281		o: NWTPH-Dx			Analysis Da			SeqNo: 322018	30427B
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	Limit Qua
Diesel		ND	16.8	0	0	0	0	0	0	0	20
Lube Oil		ND	55.9	0	0	0	0	0	0	0	20
Sample ID CCV	SampTyp	oe: CCV	TestCod	e: NWTPHDX	S Units: mg/Kg		Prep Dat	e:		Run ID: GC-M_0	
Client ID: ZZZZ	Z Batch II	D: 13281	TestN	: NWTPH-Dx			Analysis Da	e: 4/27/2	005	SeqNo: 322012	30427B
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	Limit Qual
Diesel		677	15.0	666.6	0	102	85	115	0	0	
Lube Oil		338.8	50.0	333.3	0	102	85	115	0	0	
Sample ID CCV	SampTyp	e: CCV	TestCode	e: NWTPHDX	_S Units: mg/Kg		Prep Dat	e:		Run ID: GC-M_0	50427B
Client ID: ZZZZ	Z Batch II	D: 13281	TestNo	: NWTPH-Dx			Analysis Dat	e: 4/27/20	005	SeqNo: 322019	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPD	Limit Qual
											- auu

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blan

R - RPD outside accepted recovery limits

Page 6 of 14

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID Client ID:	CCV	SampType: Batch ID:			e: NWTPHD o: NWTPH-D	X_S Units: mg/Kg		Prep Dat Analysis Da		005	Run ID: G SeqNo: 32		В
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil			358.7	50.0	333.3	0	108	85	115	0	0		444

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_W

				1111111
Sample ID MBLK Client ID: ZZZZZ	SampType: MBLK Batch ID: 13283	TestCode: NWTPHDX_ Units: mg/L TestNo: NWTPH-Dx	Prep Date: 4/27/2005 Analysis Date: 4/27/2005	Run ID: GC-M_050427C SeqNo: 322028
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel Lube Oil Surr: o-Terphenyl	ND ND 0.3956	0.250 0.500 0 0.5 0	79.1 50 150 0	0
Sample ID LCS Client ID: ZZZZZ	SampType: LCS Batch ID: 13283	TestCode: NWTPHDX_ Units: mg/L TestNo: NWTPH-Dx	Prep Date: 4/27/2005 Analysis Date: 4/27/2005	Run ID: GC-M_050427C SeqNo: 322029
Analyte Diesel	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Lube Oil	1.826 2.385	0.250 2.5 0 0.500 2.5 0	73 70 130 0 95.4 70 130 0	0
Sample ID CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 13283	TestCode: NWTPHDX_ Units: mg/L TestNo: NWTPH-Dx	Prep Date: Analysis Date: 4/27/2005	Run ID: GC-M_050427C SeqNo: 322030
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel Lube Oil	10.16 5.082	0.250 10 0 0.500 5 0	102 85 115 0 102 85 115 0	0
Sample ID CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 13283	TestCode: NWTPHDX_ Units: mg/L TestNo: NWTPH-Dx	Prep Date: Analysis Date: 4/27/2005	Run ID: GC-M_050427C SeqNo: 322033
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel Lube Oil	10.3 5.381	0.250 10 0 0.500 5 0	103 85 115 0 108 85 115 0	0

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R - RPD outside accepted recovery limits

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID Client ID:	MBLK ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 4/27/2005 Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321927	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit	Ougl
Gasoline Surr:4-E	Bromofluorobenzene		ND 4.468	2.50 0 5 0 89.4 50 150 0 0	Qual
Sample ID Client ID:	MBLK ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 5/4/2005 Run ID: GC-I_050504A TestNo: NWTPH-Gx Analysis Date: 5/4/2005 SeqNo: 323365	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit	Qual
Gasoline Surr:4-B	Bromofluorobenzene	3 1	4.013 5.228	2.50 0 5 0 105 50 150 0 0	Gradi
Sample ID Client ID:	LCS ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 4/27/2005 Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321928	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit	Qual
Gasoline			29.4	2.50 30 0 98 53.5 121 0 0	Quai
Sample ID Client ID:	LCS ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 5/4/2005 Run ID: GC-I_050504A TestNo: NWTPH-Gx Analysis Date: 5/4/2005 SeqNo: 323366	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit	Qual
Gasoline			31.75	2.50 30 4.013 92.4 53.5 121 0 0	B
Client ID:	0504106-27ADUP B-9-9'	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 4/27/2005 Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321943	
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit	Qual
Gasoline			22.47	3.53 0 0 0 0 0 21.93 2.42 20	

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Page 9 of 14

Environmental Compliance Northwest, Inc.

Work Order:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID Client ID:	0504106-26ADUP B-9-6'	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 4/27/2005 Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321945
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua
Gasoline	-		10.21	3.28 0 0 0 0 0 11.74 14.0 20
Client ID:	0504106-19ADUP B-7-3'	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 5/4/2005 Run ID: GC-I_050504A TestNo: NWTPH-Gx Analysis Date: 5/4/2005 SeqNo: 323369
Analyte			Result	PQL SPK value SPK Ref Val
Gasoline			ND	3.17 0 0 0 0 0 0 0 20
	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321929
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline			110.4	2.50 100 0 110 80 120 0 0
Sample ID Client ID:	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050427A TestNo: NWTPH-Gx Analysis Date: 4/27/2005 SeqNo: 321944
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline			136.1	2.50 125 0 109 80 120 0 0
	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050504A TestNo: NWTPH-Gx Analysis Date: 5/4/2005 SeqNo: 323367
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline			105.3	2.50 100 0 105 80 120 0 0 B
Sample ID Client ID:	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-I_050504A
Analyte				TestNo: NWTPH-Gx Analysis Date: 5/4/2005 SeqNo: 323370

Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blan

Page 10 of 14

Environmental Compliance Northwest, Inc.

Work Order:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID	CCV	SampType	CCV									_	
Client ID:	ZZZZZ	SampType: Batch ID:			de: NWTPHG No: NWTPH- 0	X_S Units: mg/Kç Gx	1	Prep Da Analysis Da			Run ID: G SeqNo: 32		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		- 1	
Gasoline			133.3	2.50	125	0	107	80	120	0	. 0	RPDLimit	Qual

Environmental Compliance Northwest, Inc.

WorkOrder:

0504106

Project:

Powell-Molalla/05106

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID MB-13293 Client ID: ZZZZZ	SampType: MBLK Batch ID: 13293		de: PAHLL_V No: 8270SIM	V Units: µg/L		Prep Da Analysis Da	te: 4/28/2		Run ID: 59	73G_05042 2269	8B
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0500					1			TO DEFINE	Quai
Acenaphthylene	0.01	0.0500									
Anthracene	ND	0.0500									J
Benz(a)anthracene	ND	0.0500									
Benzo(a)pyrene	0.01	0.0500									
Benzo(b)fluoranthene	ND	0.0500									J
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	ND *	0.0500									
Chrysene	0.01	0.0500									
Dibenz(a,h)anthracene	0.01	0.0500									J
Fluoranthene	ND	0.0500									J
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	0.02	0.0500									
Phenanthrene	ND	0.0500									J
Pyrene	ND	0.0500									
Surr: 2-Fluorobiphenyl	59.05	1.00	100	0	59	40.0	400				
Surr: Nitrobenzene-d5	71.27	1.00	100			18.6	106	0	0		
Surr:p-Terphenyl-d14	109.3	1.00	100	0	71.3 109	17	130	0	0		
0 1 15 1 0 0			100	-	109	39.6	131	0	0		
Sample ID LCS-13293	SampType: LCS	TestCoo	le: PAHLL_W	Units: µg/L		Prep Date	e: 4/28/20	005	Run ID: 597	3G_050428	D
Client ID: ZZZZZ	Batch ID: 13293	TestN	lo: 8270SIM			Analysis Dat			SeqNo: 322		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.76	0.0500	2.5	0	70.4	35.1				TO DEFINE	Qual
Benzo(g,h,i)perylene	1.72	0.0500	2.5	0	68.8	20.8	83.6	0	0		
Chrysene	2.02	0.0500	2.5	0.01	80.4		84.4	0	0		
Naphthalene	1.47	0.0500	2.5	0.02	58	39.1	103	0	0		
Phenanthrene	1.62	0.0500	2.5			25.6	88.8	0	0		
Pyrene	2.13	0.0500	2.5	0	64.8	38.1	92.9	0	0		
	2.10	0.0000	2.5	0	85.2	41.3	101	0	0		

Qualifiers:

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Page 13 of 14

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.
- L 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.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Company

Contact Person/Project Manager_ John Day

Date

Time

	//
7/1	1
//	1 ./

Copies: White-Original

Specialty Analytical

Yellow-Project File

19761 S.W. 95th Place

19761 S.W. 95th Place Tualatin, OR 97062 (503) 612-9007 - Phone (503) 612-8572 - Fax				Ad			T	ν, α,				
Collected By:				P1	ione		<u>S</u>	5 4	7 7	60 Fax 3	7.213	9980
Signature				Pr	oject No	0.05	10	6	_ Pro	ect Name Pole	ell-n	rolalla
Printed John Day				In	voice To	m	2_			P.0). No	
Signature		Г	T			Analys						
Printed			4	4	T	Analys	es	ТТ	\top	For La	boratory Use	
		6	272							Lab Job No. 05	04106	
Turn Around Time		le le	/	4 1						Shipped Via		
Normal		of Containers	۷	1		- 2				Air Bill No		
□ Rush		8	1	长						Townselve		
Specify				13						Temperature On Rec		
Rush Analyses Must Be Scheduled With The Lab In Advance		No.	1	1						Specialty Analytical		
D. I	1		10	18						Specialty Analytical	Trip Blanks?	Y/N
Date Time Sample I.D. 4/26/03/830/13-1-7	Matrix	-		14						Commen	to	T
	15	1								Commen	ıs	Lab I.D.
940 3-2-4	-	11	X	X					1			
104 11-	++	11		- 7.								
	-	4	X							1 2		
955 B-2-11	$\perp \perp$	Ш			6			m				
1000 8-2-13		\coprod		-1					1			
1010 3-3-7						7 1/2			+			
1015 3-3-6			X						+-			
102013-11,									+			·
1120 13-4-3			X				+		-			
1125 13-4-6	1/	117	X		++			-	-		1 1	
1150 B-4-9	1	1	1		++	+	+-	_	-			
Relinquished By: Company: Date Time	Received							quished I	Ву:		Date	Time
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.				= 5.00			+	eived For	Lab By:		Date	Time

Pink-Customer Copy

CHAIN OF CUSTODY RECORD

Analyses

	/
W	1/2
1/1	1

Specialty Analytical

19761 S.W. 95th Place Tualatin, OR 97062 (503) 612-9007 - Phone

	(503) 612-9007 - Ph (503) 6 12-8572 - Fa	one ×	
Collected By: Signature Printed	ohn day	/ 	-
Signature	. /		-
riiiled			•
Turn Around Time			
√Normal			
☐ Rush _			
	Specify		
Rush Analyses Mus	et Be Scheduled With The Lal	In Advance	

STUDY RECURD	Page 2 of 3
Contact Person/Project Manager_ John Care	
Company	
Address PTO, NO	
Phone 377-9760 Fax 273.0	1980
Project No. 0706 Project Name Powell	- Molalla
Invoice To P.O. No	

Lab Job No.

Temperature On Receipt

Specialty Analytical Containers? Y/N

Shipped Via_ Air Bill No.

For Laboratory Use

Rush Analy	ses must be	Scheduled With The Lab in Advance		ž	12	P						Specialty Analytical T	rip Blanks?	Y/N
Date	Time	Sample I.D.	Matrix		1-	1	-					Comment		1
4/26/01	1145	B-5-3	5	1	.X. T						1	Comment	5	Lab I.D.
1	1150	B7			X	X					1	 		
	1210	13-6-2					- 1			+	+-			
	145	3-6-6			X						+			
	1200	R-6-9'			X						1			
	1225	13-6-11								1		147.00		
	1255	R-7-3									1			
	1700	13-7-7							_	+	1			
	1310	B-=-11'			X					+	-			
	1320	13-9-3		,						1	+-			
	1325	B-8-7		13				- 4	_	+				
	1730	B-8-17			X		_							
Relinquished Company:	By:	Date Time	Received		/				Relinqu Compa		By:		Date	Time
Unless Recla		les Will Be Disposed of 60 Days After Receil Yellow-Project File	pt. Pink-Custo	omer (CODY			<u> </u>	Receive	ed For	Lab By	1.11	Date	Time

No. of Containers

Page of J

Lab I.D.

		CHAIN	OF CL	STODY	RECORD	Page	7
Collected By: Signature Printed	Specialty Analytical 19761 S.W. 95th Place Tualatin, OR 97062 (503) 612-9007 - Phone (503) 612-8572 - Fax			Company Address_ Phone_ Project N	372 9760 10.05106 PI		
Printed Turn Around Time □ Nermal □ Rush	Specify st Be Scheduled With The Lab In Advance		No. of Containers	M145 (8270Lin)	Analyses	For Laboratory Use Lab Job No	°C
Date Tim 4/26/05-139 13 13 13 10	13-9-3' 1013-9-6 113-9-9 5-11-11	Matrix S	X X X X 4 X	X		Comments	La
	DB-3W		SXX			Pun DUHC ! [

430 B-9W Relinquished By: Date Received By: Time Relinquished By: Date Time Company: Company: Company: Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Received For Lab By: Date Time Copies: White-Original Yellow-Project File Pink-Customer Copy



19761 S.W. 95th Avenue Tualatin, OR 97062 (503) 612-9007 Fax (503) 612-8572 1 (877) 612-9007

October 11, 2006

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

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

RE: Powell-Molalla / 05105

Dear John Day:

Order No.: 0609176

Specialty Analytical received 1 sample on 9/29/2006 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,

Ned Engleson

Project Manager

Technical Review

Date: 11-Oct-06

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell-Molalla / 05105

Lab Order:

0609176

Lab ID:	0609176-01				Collection	2 4 0/20/6	1000	
Client Sample ID:	T-3 Backfill					pate: 9/29/2 trix: SOIL	2006 5:00:00 PM	
Analyses		Result	Limit	Qua	l Units	DF	Date Analyz	ed
NWTPH-HCID			17				- Just Mary Z	
Gasoline			NWHCID				Analys	t das
Mineral Spirits		Gasoline	28.3		mg/Kg-dry	1	10/2/2006	. du
Kerosene		ND	28.3		mg/Kg-dry	1	10/2/2006	
Diesel		Kerosene	70.7		mg/Kg-dry	1	10/2/2006	
Lube Oil		Diesel	70.7		mg/Kg-dry	1	10/2/2006	
Surr: BFB		ND	141		mg/Kg-dry	1	10/2/2006	
		170	50-150	S,MI	%REC	1	10/2/2006	
Surr: o-Terphenyl		119	50-150		%REC	1	10/2/2006	
IWTPH-DX			MACTERIA				10/2/2006	
Diesel		991	NWTPH-DX				Analyst	: das
Kerosene		3130	21.2		mg/Kg-dry	1	10/4/2006	
Lube Oil			84.9		mg/Kg-dry	4	10/4/2006	
Surr: o-Terphenyl		ND	70.7		mg/Kg-dry	1	10/4/2006	
		114	50-150		%REC	1	10/4/2006	
TEX - RBC			SW8021B					
Benzene		ND	0.0354		mg/Kg-dry		Analyst	jrp
Toluene		2.97	0.141		,	1	10/2/2006	
Ethylbenzene		18.2	1.41		mg/Kg-dry	1	10/2/2006	
Xylenes, Total		161	4.24		mg/Kg-dry	10	10/2/2006	
Surr: 4-Bromofluorob	enzene	151	42.6-126	CMI	mg/Kg-dry	10	10/2/2006	
WTPH-GX		101	42.0-120	S,MI	%REC	1	10/2/2006	
Gasoline			WTPH-GX				A = 1	
_		5410	35.4		mg/Kg-dry	10	Analyst: 10/3/2006	Jrp
Surr: 4-Bromofluorob	enzene	588	50-150		%REC	10	10/3/2006	
TAL METALS BY ICE	•	_				10	10/3/2006	
ead			6010				Analyst:	zau
		2.85	1.61		mg/Kg	1	10/5/2006 6:24:51	

10/5/2006 6:24:51 PM

CLIENT:

Project:

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Powell-Molalla/05105

Date: 11-Oct-06

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

										resicoue:	0010-2		
Sample ID Client ID: Analyte	MBLK-16886 ZZZZZ	SampType Batch ID:			de: 6010_S	Units: mg/Kg		Prep Date Analysis Date			Run ID:	TJAIRIS_06 [.] 420499	1005A
Lead			ND	-	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID Client ID:	LCS-16886 ZZZZZ	SampType: Batch ID:	LCS		le: 6010_S o: E6010	Units: mg/Kg		Prep Date:				「JAIRIS_061	
Analyte Lead		1,	Result	PQL	SPK value	SPK Ref Val	%REC			RPD Ref Val	SeqNo: 4		Qual
	0000470		99.47	2.00	100	0	99.5		109	0	(
Sample ID Client ID:	0609176-01BMS T-3 Backfill	SampType: Batch ID:			e: 6010_S o: E6010	Units: mg/Kg		Prep Date: Analysis Date:			Run ID: T	JAIRIS_061	005A
Analyte Lead			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H			SeqNo: 4	20505 RPDLimit	Qual
	0000470 047110		74.08	1.52	75.76	2.855	94	84.9	109	0	0		Guai
Client ID:	0609176-01BMSD T-3 Backfill	SampType: Batch ID:			e: 6010_S e: E6010	Units: mg/Kg		Prep Date: Analysis Date:			Run ID: T.	JAIRIS_0610	005A
Analyte Lead			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit Hi	ghLimit	RPD Ref Val	%RPD	RPDLimit	Qual
			85	1.61	80.65	2.855	102	84.9	109	74.08	13.7		Qual
	0609176-01BDUP T-3 Backfill	SampType: Batch ID:	16886		E6010	Units: mg/Kg		Prep Date: Analysis Date:		16		JAIRIS_0610	05A
_ead			9.685	PQL 1.61	SPK value		%REC	LowLimit Hig	ghLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
				1.01	Ü	0	0	0	0	2.855	109	20	R

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 Blan

Page 1 of 10

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	CCV	SampType:	CCV							0010_3
	<u> </u>	Batch ID:			de: 6010_S No: E6010	Units: mg/Kg		Prep Da Analysis D	ate: 10/5/2006	Run ID: TJAIRIS_061005A SeqNo: 420506
Lead			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	0/000
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		97.86	2.00	100	0	97.9		110 0	Qual
Sample ID Client ID: Analyte	CCV ZZZZZ	SampType: Batch ID:			le: 6010_S lo: E6010	Units: mg/Kg		Prep Da Analysis Da		0 Run ID: TJAIRIS_061005A SeqNo: 420510
Lead			Result 98.04	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit Qual
Sample ID I	ICV	SampType:		2.00	100	0	98	90	110 0	0
	77777	Batch ID:			e: 6010_S o: E6010	Units: mg/Kg		Prep Dat Analysis Da	te: 10/5/2006	Run ID: TJAIRIS_061005A
Analyte Lead			Result	PQL	SPK value	SPK Ref Val	%REC		HighLimit RPD Ref Val	SeqNo: 420496
Leau			99.15	2.00	100	0	99.2	90	110 0	%RPD RPDLimit Qual

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID MBLK	Comm.T.						ie: BIEX	KDC_S	
Client ID: ZZZZZ Analyte	SampType: MBLK Batch ID: 16847	TestNo: SV	39		Prep Date Analysis Date	10/2/2006 10/2/2006		D: GC-I_061002	A
	Result	PQL SPK	value SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref			
Benzene Toluene Ethylbenzene	ND 0.006	0.100				INTERIOR NEW YORK	vai %	RPD RPDLimit	Qua
Xylenes, Total Surr:4-Bromofluorobenz	0.0125 0.1515 ene 4.82	0.100 0.300 0.0500	5 0	96.4	40.0				J
Sample ID LCS	SampType: LCS	TestCode: PT		90.4	42.6	126	0	0	
Client ID: ZZZZZ	Batch ID: 16847	TestCode: BTI TestNo: SW	33		Prep Date: Analysis Date:			GC-I_061002A	A
Analyte	Result	PQL SPK	value SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref		PD RPDLimit	01
Benzene Toluene Ethylbenzene Xylenes, Total	0.941 0.9705 0.9795 2.9	0.0250 0.100 0.100 0.300	1.25 0 1.25 0.006 1.25 0.0125 3.75 0.1515	75.3 77.2 77.4 73.3	68.7 71.4 76.3 70.1	117 115 115	0 0 0	0 0 0	Qual
Gample ID 0609176-01AMS Client ID: T-3 Backfill	SampType: MS Batch ID: 16847	TestCode: BTE TestNo: SW8	XRBC_S Units: mg/Kg-c	гу	Prep Date:	10/2/2006 10/2/2006	Run ID:	0 GC-I_061002A 419321	
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC	LowLimit Hi	ghLimit RPD Ref V			
Ethylbenzene Kylenes, Total	23.18 207.9		7.68 15.01 3.04 125	46.2 156	53.3 47.5	107	0	0 0	Qual S,MC
Sample ID 0609176-01AMS Client ID: T-3 Backfill	SampType: MS Batch ID: 16847	TestCode: BTE: TestNo: SW8	5 5 -	-	Prep Date:	10/2/2006	Run ID:	GC-I_061002A 419726	S,MC
analyte	Result	PQL SPK va	alue SPK Ref Val			ghLimit RPD Ref Va			
Benzene Oluene	1.054 4.597	0.0354 1.	768 0 768 2.967	59.6 92.2	32.2 56.7	108	al %RF 0 0	D RPDLimit 0	Qual

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Page 3 of 10

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID	0600476 04444										TestCode	BTEXRI	BC_S	
Client ID: Analyte	0609176-01AMSD T-3 Backfill	SampType Batch ID:	16847	TestN	de: BTEXRB	3	mg/K	g-dry	Prep D Analysis D	ate: 10/2		Run ID: SeqNo:	GC-I_061002 419322	2A
Ethylbenz	Yong.		Result	PQL	SPK value	SPK Ref \	/al	%REC	LowLimit	Hight im	it RPD Ref Val			
Xylenes,	Total		27.83 252.8	1.41 4.24	17.68 53.04	15. 1.	01 25	72.5 241		10	7 0		0 RPDLimit 0 20	Qua)
Client ID:	0609176-01AMSD T-3 Backfill	SampType: Batch ID:			e: BTEXRB(o: SW8021E		mg/Kg		Prep Da	ate: 10/2/	2006	Run ID:	0 20 GC-I_061002	
Analyte			Result	PQL	SPK value	SDK D-41						SeqNo:	119727	
Benzene	3		1.004	0.0354		SPK Ref V	aı	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Toluene Sample ID	COV		4.9	0.141	1.768 1.768	2.96	0 7	56.8 109	32.2 56.7	108	1.004	4.88	3 20	
Client ID:	ZZZZZ	SampType: Batch ID:			E: BTEXRBC D: SW8021B	S Units:	mg/Kg		Prep Da Analysis Da			Run ID: 0	GC-I_061002A	
Analyte			Result	PQL	SPK value	SPK Ref Va	ı	%REC				SeqNo: 4	19317	
Benzene Foluene			2.408	0.0250	2.5)	96.3	85	HighLimit 115	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzei			2.46 2.444	0.100 0.100	2.5 2.5)	98.4	85	115	0	0		
Xylenes, To			7.22	0.300	7.5	(97.8 96.3	85 85	115 115	0	0		
Sample ID Client ID:	ZZZZZ	SampType: Batch ID:			BTEXRBC SW8021B	S Units: I	ng/Kg		Prep Date	e:	0		C-I_061002A	
nalyte			Result	PQL :	SPK value	SPK Ref Val			nalysis Dat			SeqNo: 41	9723	
enzene oluene			2.468	0.0250	2.5	0		%REC 98.7			RPD Ref Val	%RPD	RPDLimit	Qual
thylbenzen	e .		2.513	0.100	2.5	0		101	85 85	115 115	0	0		
ylenes, Tot			2.516 7.476	0.100 0.300	2.5 7.5	0		101 99.7	85 85	115 115	0	0		

Qualifiers:

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Page 4 of 10

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID MBLK Client ID: ZZZZZ Analyte	SampType: Batch ID:	16852		ode: HCID_NW tNo: NWHCID	Units: mg/Kg		Prep Dai Analysis Da	te: 10/2/20		Run ID: (GC-M_061002	В
		Result	PQL	SPK value	SPK Ref Val	%REC	l owl imit	Highl imit	RPD Ref Val			
Gasoline		0.78	20.0				2011211111	riigiiLiiriit	RPD Ref Val	%RPD	RPDLimit	Qua
Mineral Spirits		ND	20.0									J
Kerosene		ND	50.0									3
Diesel		ND	50.0									
Lube Oil		8.03	100									
Surr: BFB		95.6	0	100								J
Surr: o-Terphenyl		97.1	0	100	0	95.6	50	150	0	0		, ,
Sample ID 0609172-06ADLIP				100	0	97.1	50	150	0	0		
Client ID: ZZZZZ	SampType: Batch ID:			de: HCID_NW No: NWHCID	Units: mg/Kg-	1.00	Prep Date Analysis Date			Run ID: G SeqNo: 41	C-M_061002E	3
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC						
Gasoline		1.697	22.6	0			LOWLITH	nignLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mineral Spirits		ND	22.6	0	0	0	0	0	1.81	0	20	J
Kerosene		ND	56.6	0	0	0	0	0	0	0	20	3
Diesel		21.95	56.6	0	0	0	0	0	0	0	20	
ube Oil		72.06	113	0	0	0	0	0	18.67	0	20	J
ample ID 0609176-014DLIP				0	0	0	0	0	59.73	0	20	J
lient ID: T-3 Backfill	SampType: [Batch ID: 1			e: HCID_NW o: NWHCID	Units: mg/Kg-d		Prep Date: Analysis Date			Run ID: GC SeqNo: 419	-M_061002B	
nalyte	, F	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit H					
asoline		1024	28.3	0				ingi iLili ili	Ket Val	%RPD	RPDLimit	Qual
lineral Spirits		ND	28.3	0	0	0	0	0	2001	64.6	20	R
erosene -		1024	70.7	0	0	0	0	0	0	0	20	
iesel		305.8	70.7	0	0	0	0	0	0	200	20	R
ube Oil		ND	141	0		0	0	0	690.8	77.3	20	R
				U	0	0	0	0	23.06	0	20	

Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blanl

Page 5 of 10

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID 0610002-01ADL	JP SampType: DUP	TootC				- Total de la							
Client ID: ZZZZZ	Batch ID: 16852		ode: HCID_NW No: NWHCID	and mg/it	-	Prep Da Analysis Da			Run ID: Go SeqNo: 41	C-M_061002	В		
Analyte Gasoline	Resul	. 42	SPK value	SPK Ref Val	%REC				%RPD	RPDLimit	0		
Mineral Spirits Kerosene Diesel Lube Oil	24.9; NE NE 112.1 8.262	28.5 71.2 71.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	50.28 0 0 217.4	0 0 0 63.9	20 20 20 20 20	Qua J RF		
					U	0	0	13.53	0	20	J		

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID MB-16875 Client ID: ZZZZZ Analyte		e: MBLK : 16875		de: NWTPH lo: NWTPH -	DX_S Units:	mg/Kg		Date:				GC-M_0610 420131	04A
		Result	PQL	SPK value	SPK Ref Va	al %R	EC LowLi	mit Hial	hl imit i	RPD Ref Val			
Diesel		3.333	15.0					9	- I	TO Rei Val	%RF	PD RPDLimi	t Qua
Hydraulic Oil		ND	50.0										J
Kerosene		ND	15.0										
Lube Oil		ND	50.0										
Surr: o-Terphenyl		35.73	0	33.33	() 1	07	50	450				
Sample ID LCS-16875	SampType	LCS	TootCod	Allamous			-		150	0		0	
Client ID: ZZZZZ	Batch ID:			e: NWTPHD D: NWTPH-D	X_S Units: I	ng/Kg			0/3/200		Run ID:	GC-M_06100)4A
Analyte							Analysis	Date: 1	0/4/2006	6	SeqNo:	420132	
•		Result	PQL	SPK value	SPK Ref Val	%RE	C LowLin	nit High	limit D	PD Ref Val	0/00		
Diesel		198.7	15.0	167	3.333		60-0			D Nei vai	%RP	D RPDLimit	Qual
ube Oil		170.4	50.0	167	0.555		17 76		125	0		0	
Sample ID 0610010-01ADUP	0 -						02 69	.9	127	0		0	
	SampType:		TestCode	: NWTPHD)	(S Units: n	ng/Kg-dry	Prep	Date: 1	0/3/2006				
Client ID: ZZZZZ	Batch ID:	16875		: NWTPH-D		,					Run ID:	GC-M_06100	4A
nalyte				· · · · · ·	•		Analysis	Date: 1	0/4/2006		SeqNo:	420134	
		Result	PQL	SPK value	SPK Ref Val	%RE	C LowLim	it High!	imit Dr	2D D (1//			
iesel		7.382	20.6				LOWLIII	in riigit	111111 KI	PD Ref Val	%RPC) RPDLimit	Qual
ube Oil		ND	68.8	0	0			0	0	9.399	~	0 20	J
ample ID 001				U	0		0	0	0	0		0 20	_
ample ID CCV	SampType:	CCV	TestCode:	NWTPHDX	S Units: m	a/Ka	D .					20	
lient ID: ZZZZZ	Batch ID:	16875		NWTPH-Dx		grity	Prep [Run ID: (GC-M_061004	IA.
ach to			1031140.	INVITEDX			Analysis [Date: 10	/4/2006		SeqNo: 4		
nalyte		Result	PQL	SPK value	SPK Ref Val	%REC	· Land'						
esel		938.4				/ortec	LOWLIM	t HighLi	imit RP	D Ref Val	%RPD	RPDLimit	Qual
COCI			15.0	833.3	0	11	3 85	5	115	0)	
erosene		201 /							-	0	1		
		381.4 401.5	15.0 50.0	400 400	0	95.	3 85	5	115	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 Blan

Page 7 of 10

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID	CCV	C		TWITHDA_S							
Client ID:	ZZZZZ	SampType: CCV Batch ID: 16875 Result	TestCode: NWTPHDX_S Units: mg/Kg TestNo: NWTPH-Dx	Prep Date: Analysis Date: 10/4/2006	Run ID: GC-M_061004A SeqNo: 420142						
Diesel			PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual						
Kerosene Lube Oil		1059 478 502.2	15.0 1000 0 15.0 500 0 50.0 500 0	106 85 115 0 95.6 85 115 0 100 85 115 0	0 0						
	ZZZZZ	SampType: CCV Batch ID: 16875	TestCode: NWTPHDX_S - Units: mg/Kg TestNo: NWTPH-Dx	Prep Date: Analysis Date: 10/6/2006	0 Run ID: GC-M_061004A SeqNo: 420652						
Analyte	A.1	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	0/000						
Hydraulic O		375.4	50.0 400 0	93.9 85 115 0	%RPD RPDLimit Qual						
	ZZZZZ	SampType: CCV Batch ID: 16875	TestCode: NWTPHDX_S Units: mg/Kg TestNo: NWTPH-Dx	Prep Date: Analysis Date: 10/6/2006	0 Run ID: GC-M_061004A SeqNo: 420655						
Analyte Hydraulic Oil	il .	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	0/000						
ry ar autile Of		367.9	50.0 400 0	92 85 115 0	%RPD RPDLimit Qual						

Environmental Compliance Northwest, Inc.

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID	MBLK	CompT					restcode:	NWTPHGX_S
Client ID:	ZZZZZ	SampType: Batch ID:	16846	TestCode: NWTPHGX_S Units: mg / TestNo: NWTPH-Gx	Kg	Prep Date: Analysis Date	10/2/2006	Run ID: GC-I_061002B SeqNo: 419324
Gasoline			Result	PQL SPK value SPK Ref Val	%REC	LowLimit F	lighLimit RPD Ref Val	
Surr:4-E	Bromofluorobenzene		ND 4.866	2.50 0 5 0	97.3		450	, a serial cons
Sample ID Client ID:	LCS ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/l		Prep Date:	10/2/2006	0 Run ID: GC-I_061002B
Analyte	_		Result	PQL SPK value SPK Ref Val		Analysis Date:		SeqNo: 419325
Gasoline			50.13	2.50 50 0	%REC 100		ghLimit RPD Ref Val	%RPD RPDLimit Qua
Client ID:	0609176-01ADUP T-3 Backfill	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/N TestNo: NWTPH-Gx	g-dry	53.5 Prep Date: Analysis Date:		0 RunID: GC-I_061002B
Analyte Gasoline			Result	PQL SPK value SPK Ref Val	%REC		ghLimit RPD Ref Val	SeqNo: 419579 %RPD RPDLimit Qual
	001		5569	35.4 0 0	0	0	0 5405	
Sample ID Client ID: analyte	ZZZZZ	SampType: (Batch ID:		TestCode: NWTPHGX_S Units: mg/K TestNo: NWTPH-Gx		Prep Date: Analysis Date:		2.98 20 Run ID: GC-I_061002B SeqNo: 419326
Sasoline			Result	PQL SPK value SPK Ref Val	%REC		hLimit RPD Ref Val	0/000
	001		114	2.50 125 0	91.2	80	120 0	%RPD RPDLimit Qual
Sample ID	CCV ZZZZZ	SampType: C Batch ID: 1		TestCode: NWTPHGX_S Units: mg/K ₀ TestNo: NWTPH-G x		Prep Date:		Run ID: GC-I_061002B
nalyte		F	Result	PQL SPK value SPK Ref Val		Analysis Date:		SeqNo: 419331
asoline	,		132.2	2.50 125 0	106	LowLimit High	nLimit RPD Ref Val	%RPD RPDLimit Qual

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 Blan

Page 9 of 10

 $Environmental \, Compliance \, Northwest, Inc. \,$

Work Order:

0609176

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

											restcode:	NWIPHG	XX	
Sample ID Client ID: Analyte	CCV ZZZZZ	SampType: Batch ID:			ode: NWTPHG		mg/Kg		Prep Da				GC-I_061002E	3
Gasoline			Result 123	PQL		SPK Ref V	al	%REC	LowLimit	HighLimit	RPD Ref Val		RPDLimit	Qual
Sample ID	CCV	SampType:		2.50	125		0	98.4	80	120	0	0		
Client ID:	ZZZZZ	Batch ID:			de: NWTPHG No: NWTPH-G		mg/Kg		Prep Da Analysis Da		2006		C-I_061002B	
Analyte Gasoline			Result	PQL	SPK value	SPK Ref Va	al	%REC			RPD Ref Val	SeqNo: 41		
210			141	2.50	125		0	113	80	120		0	RPDLimit	Qual

KEY TO FLAGS

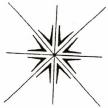
- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel 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.
- L 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.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Contact Person/Project Manager Julia Day

Page___of___



Specialty Analytical
19761 S.W. 95th. Avenue

19/61 S.W. 95th. Avenue Tualatin, OR 97062 (503) 612-9007 - Phone (503) 612-8572 - Fax Collected By: Signature Printed					Addr	ess_	K	77 / 27	20	U	フ	30,63 	3-793 elf-p	00/21/
SignaturePrinted							Anal	vses						
Turn Around Time Normal Rush Specify Rush Analyses Must Be Scheduled With The Lab In Advance		No. of Containers	(1)2	04. Gx 18 72X)×) .						Lab Job No. Shipped Via Air Bill No. Temperature On Respecialty Analytical Specialty Analytical	ceiptContainers?	_°C Y/N
Date Time Sample I.D.	Matrix	1	1	1	0	0	1							
1/2.176 1700 7.3 BACK Sill	8	1	人	*	7	X			#	+		Commen	ts	Lab I.D.
								\dashv	+		+			
						A T			+	+				-
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	3					+	\dashv	+	+	+				
							\neg	\dashv	+	+	+-	 	1.	
									+					
Relinquished By: Company: July Samples Will Be Discount 199		•						1	elinq	uished any:	By:		Date	Time
Jnless Reclaimed, Samples Will Be Disposed of 60 Days After Receip Copies: White-Original Yellow-Project File	t. Pink-Custo	mer Co	ору	-,				Re	eceiv	ed For	Lab By	Jutz	Date	Time 1840



19761 S.W. 95th Avenue Tualatin, OR 97062 (503) 612-9007 Fax (503) 612-8572 1 (877) 612-9007

October 12, 2006

John Day

Environmental Compliance Northwest, Inc.

P.O. Box 230163

Portland, OR 97281

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

RE: Powell-Molalla / 05105

Dear John Day:

Order No.: 0610020

Specialty Analytical received 12 samples on 10/4/2006 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,

Ned Engleson

Project Manager

Technical Review

Date: 12-Oct-06

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Surr: Toluene-d8

Powell-Molalla / 05105

Lab Order:

0610020

Lab ID: 0610020-01 Client Sample ID: T1-S-13'				Collection Dat	e: 10/4/20	06 3:00:00 PM
Client Sample ID: T1-S-13'				Matri	x: SOIL	
Analyses	Result	Limi	t Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-D	K	* * * * * * * * * * * * * * * * *		
Diesel	ND	19.1		mg/Kg-dry	1	Analyst: jr _l 10/5/2006
Kerosene	251	19.1		mg/Kg-dry	1	
Lube Oil	ND	63.5		mg/Kg-dry	1	10/6/2006
Surr: o-Terphenyl	108	50-150		%REC	1	10/5/2006 10/5/2006
BTEX - RBC		CWOOOAD				10/0/2000
Benzene	ND	SW8021B 0.0318				Analyst: jrp
Toluene	ND			mg/Kg-dry	1	10/5/2006
Ethylbenzene	ND	0.127		mg/Kg-dry	1	10/5/2006
Xylenes, Total	9.19	0.127		mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluorobenzene	71.2	0.381		mg/Kg-dry	1)	10/5/2006
	71.2	42.6-126		%REC	1	10/5/2006
WTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	1520	31.8		mg/Kg-dry	10	10/5/2006
Surr: 4-Bromofluorobenzene	308	50-150	S,MI	%REC	10	10/5/2006
OLATILES BY GC/MS		SW8260B				
1,2,4-Trimethylbenzene	76.3	10.0		110/1/0		Analyst: bda
1,2-Dibromoethane	ND	100	Q	μg/Kg	1	10/11/2006 1:54:00 PM
1,2-Dichloroethane	ND	10.0	Q	μg/Kg	10	10/11/2006 1:20:00 PM
1,3,5-Trimethylbenzene	20.2	10.0		μg/Kg	1	10/11/2006 1:54:00 PM
Benzene	ND	10.0		µg/Kg	1	10/11/2006 1:54:00 PM
Ethylbenzene	142	10.0		μg/Kg	1	10/11/2006 1:54:00 PM
sopropylbenzene	557	100		μg/Kg	10	10/11/2006 1:20:00 PN
m,p-Xylene	ND	200	0	μg/Kg	10	10/11/2006 1:20:00 PM
Methyl tert-butyl ether	ND	10.0		μg/Kg	10	10/11/2006 1:20:00 PM
n-Propylbenzene	2440	500		μg/Kg	1	10/11/2006 1:54:00 PM
Naphthalene	14.7	10.0		μg/Kg	50	10/11/2006 3:03:00 PM
p-Xylene	ND	10.0		μg/Kg	1	10/11/2006 1:54:00 PM
oluene	ND	100		μg/Kg	10	10/11/2006 1:20:00 PM
Surr: 1,2-Dichloroethane-d4	52.0	71.5-112		µg/Kg	10	10/11/2006 1:20:00 PM
Surr: 4-Bromofluorobenzene	132	75.7-122		%REC	1	10/11/2006 1:54:00 PM
Surr: Dibromofluoromethane	59.9			%REC	10	10/11/2006 1:20:00 PM
Surr: Toluene-d8	130			%REC	1	10/11/2006 1:54:00 PM

74.9-120 S,MI %REC

130

10/11/2006 1:20:00 PM

Date: 12-Oct-06

CLIENT: Project:	Environmental Com Powell-Molalla / 051		west, Inc.			Lab Ord	er: 0610020
Lab ID:	0610020-02			,	Collection D	ate: 10/4/2	006 2:45:00 PM
Client Sample ID:	T1-N-13'					rix: SOIL	2. 12.00 1 141
Analyses		Result	Limit	Qua	l Units	DF	Date Analyzed
NWTPH-DX			NWTPH-DX				
Diesel		ND		•			Analyst: jrp
Lube Oil		ND	19.7		mg/Kg-dry	1.	10/5/2006
Surr: o-Terpheny	1		65.8		mg/Kg-dry	1	10/5/2006
		111	50-150		%REC	1	10/5/2006
BTEX - RBC			SW8021B				Analyst irm
Benzene		ND	0.0329		mg/Kg-dry	1	Analyst: jrp 10/5/2006
Toluene		ND	0.132		mg/Kg-dry	1	10/5/2006
Ethylbenzene		ND	0.132		mg/Kg-dry	1	10/5/2006
Xylenes, Total		ND	0.395		mg/Kg-dry	1	
Surr: 4-Bromofluc	probenzene	67.5	42.6-126		%REC	1	10/5/2006
IWTPH-GX			.2.0 ,20		70INEC		10/5/2006
Gasoline			NWTPH-GX				Analyst: jrp
		ND	3.29		mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluc	robenzene	64.5	50-150		%REC	1	10/5/2006
ab ID:	0610020-03				Collection Dat	10/4/20	06 1.55 00 PM
lient Sample ID:	T2-S-13.5'						06 1:55:00 PM
	12 5 15.5				Matri	x: SOIL	
nalyses		Result	Limit	Qual	Units	DF	Date Analyzed
WTPH-DX			NWTPH-DX				A malusty is
Diesel		ND	19.9	A3	mg/Kg-dry	1	Analyst: jrp 10/5/2006
Kerosene		51.1	19.9		mg/Kg-dry	1	
Lube Oil		ND	66.5		mg/Kg-dry	1	10/6/2006
Surr: o-Terphenyl		110	50-150		%REC	1	10/5/2006
EX - RBC					701120	1	10/5/2006
Benzene			SW8021B				Analyst: jrp
Toluene		ND	0.0332		mg/Kg-dry	1	10/5/2006
Ethylbenzene		ND	0.133		mg/Kg-dry	1	10/5/2006
(ylenes, Total		0.189	0.133		mg/Kg-dry	1	10/5/2006
		0.503	0.399		mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluoro	obenzene	70.9	42.6-126		%REC	1	10/5/2006
/TPH-GX			WTPH-GX				
Sasoline		76.2	3.32		mg/Kg-dry		Analyst: jrp
		10.2	0.02		11111/P\(1=(1F\)	1	10/5/2006
Surr: 4-Bromofluoro	benzene	79.5	50-150		%REC	1	10/5/2006

Date: 12-Oct-06

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell-Molalla / 05105

Lab Order:

0610020

Lab ID:

0610020-04

Client Sample ID: T2

T2-N-13'

Collection Date: 10/4/2006 2:05:00 PM

Matrix: SOIL

			Viati	rix: SOIL	
Analyses	Result	Limit Qu	ial Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			
Diesel	ND				Analyst: jrp
Lube Oil		18.5	mg/Kg-dry	- 1	10/5/2006
Surr: o-Terphenyl	ND	61.5	mg/Kg-dry	1	10/5/2006
Suit. 6-Terprienty	110	50-150	%REC	1	10/5/2006
STEX - RBC		SW9024B			
Benzene	ND	SW8021B			Analyst: jrp
Toluene	ND	0.0308	mg/Kg-dry	1	10/5/2006
Ethylbenzene	ND	0.123	mg/Kg-dry	1	10/5/2006
	ND	0.123	mg/Kg-dry	1	10/5/2006
Xylenes, Total	ND	0.369	mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluorobenzene	71.6	42.6-126	%REC	1	
IWTPH-GX			701120		10/5/2006
Gasoline		NWTPH-GX			Analyst: jrp
	ND	3.08	mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluorobenzene	68.3	50-150	%REC	1	10/5/2006

Lab ID:

Client Sample ID:

0610020-05

T3-S-13'

Collection Date: 10/4/2006 11:45:00 AM

Matrix: SOIL

			Mati	rix: SOIL	
Analyses	Result	Limit	Qual Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			
Diesel	ND	22.4		- 10 mg	Analyst: jrp
Lube Oil			mg/Kg-dry	1	10/5/2006
Surr: o-Terphenyl	ND	74.6	mg/Kg-dry	1	10/5/2006
our. o-respitetty	102	50-150	%REC	1	10/5/2006
BTEX - RBC		SW8021B			
Benzene	ND	0.0373			Analyst: jrp
Toluene	ND		mg/Kg-dry	1	10/5/2006
Ethylbenzene	_	0.149	mg/Kg-dry	1	10/5/2006
	ND	0.149	mg/Kg-dry	1	10/5/2006
Xylenes, Total	ND	0.448	mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluorobenzene	70.6	42.6-126	%REC	1	10/5/2006
IWTPH-GX		NWTPH-GX			
Gasoline	ND				Analyst: jrp
Surr: 4-Bromofluorobenzene	_	3.73	mg/Kg-dry	1	10/5/2006
Sam - Bromondorobenzene	69.3	50-150	%REC	1	10/5/2006

Surr: 4-Bromofluorobenzene

CLIENT						
CLIENT: Project:	Environmental Con Powell-Molalla / 05		iwest, Inc.		Lab Ord	er: 0610020
Lab ID:	0610020-06			Collection D	ate: 10/4/2	2006 11:35:00 AM
Client Sample ID:	T3-N-13'				rix: SOIL	
Analyses		Result	Limit	Qual Units	DF	Date Analyzed
NWTPH-DX			MATRILEY			
Diesel		ND	NWTPH-DX			Analyst: jr
Lube Oil		ND	18.7	mg/Kg-dry	1	10/5/2006
Surr: o-Terphen	vI	ND	62.2	mg/Kg-dry	1	10/5/2006
	y'	110	50-150	%REC	1	10/5/2006
BTEX - RBC			SW8021B			
Benzene		ND	0.0311	mg/Kg-dry	1	Analyst: jrp
Toluene		ND	0.124	mg/Kg-dry	1	10/5/2006
Ethylbenzene		ND	0.124	mg/Kg-dry	1	10/5/2006
Xylenes, Total		ND	0.373	mg/Kg-dry	1	10/5/2006
Surr: 4-Bromoflu	orobenzene	66.0	42.6-126	%REC	1	10/5/2006
WTPH-GX				701 CLO	'	10/5/2006
Gasoline			NWTPH-GX			Analyst: jrp
Surr: 4-Bromofluo	probanzana	ND	3.11	mg/Kg-dry	.1	10/5/2006
earr. 4 Bromonac	Drobertzerie	62.8	50-150	%REC	1	10/5/2006
ab ID:	0610020-07			Collection Dat	0: 10/4/20/	06 12:00:00 PM
lient Sample ID:	T4-S-13'				: SOIL	06 12:00:00 PM
nalyses		Result	Limit (Qual Units	DF	Date Analyzed
WTPH-DX	1		NWTPH-DX		22	
Diesel		ND	20.5	m = 116 1		Analyst: jrp
Lube Oil		ND	68.2	mg/Kg-dry	1	10/5/2006
Surr: o-Terphenyl		111	50-150	mg/Kg-dry %REC	1	10/5/2006
TEX - RBC				%KEC	1	10/5/2006
Benzene			SW8021B			Analyst: jrp
Foluene		ND	0.0341	mg/Kg-dry	1	10/5/2006
		ND	0.136	mg/Kg-dry	1	10/5/2006
Ethylbenzene Cylonos Total		ND	0.136	mg/Kg-dry	1	10/5/2006
Cylenes, Total		ND	0.409	mg/Kg-dry	1	10/5/2006
Surr: 4-Bromofluor	obenzene	75.3	42.6-126	%REC	1	10/5/2006
VTPH-GX			WTPH-GX			
Gasoline		4.02	WIFH-GX			Analyst: jrp

4.93

69.0

3.41

50-150

mg/Kg-dry

%REC

1

Analyst: **jrp** 10/5/2006

10/5/2006

Date: 12-Oct-06

CLIENT: Environmental Con Project: Powell-Molalla / 05		vest, Inc.		Lab Order: 0610020					
Lab ID: 0610020-08			Collection Da	ate: 10/4/	2006 11:35:00 AM				
Client Sample ID: T4-N-13'				ix: SOII					
Analyses	Result	Limit (Qual Units	DF	Date Analyzed				
NWTPH-DX		NWTPH-DX	1						
Diesel	ND	18.2	ma/l/a du.		Analyst: jr				
Lube Oil	ND	60.5	mg/Kg-dry	1	10/5/2006				
Surr: o-Terphenyl	118	50-150	mg/Kg-dry %REC	1	10/5/2006				
BTEX - RBC		30-130	70KEC	1	10/5/2006				
Benzene		SW8021B			Analyst: jr				
Toluene	ND	0.0303	mg/Kg-dry	1	10/5/2006				
Ethylbenzene	ND	0.121	mg/Kg-dry	1	10/5/2006				
Xylenes, Total	ND	0.121	mg/Kg-dry	1	10/5/2006				
	ND	0.363	mg/Kg-dry	1	10/5/2006				
Surr: 4-Bromofluorobenzene	68.5	42.6-126	%REC	1	10/5/2006				
IWTPH-GX		NWTPH-GX							
Gasoline	ND .	3.03	ma/Ka da		Analyst: jrp				
Surr: 4-Bromofluorobenzene	65.5	50-150	mg/Kg-dry %REC	1	10/5/2006				
And the second second		00 100	70INEC	1	10/5/2006				
ab ID: 0610020-09			Collection Dat	o: 10/4/20	006 2:10:00 PM				
Client Sample ID: T2/3-SSW-7'				: SOIL	2:10:00 PM				
nalyses	Result	Limit Qu		DF	Date Analyzed				
WTPH-DX	N	IWTPH-DX							
Diesel	ND	21.7	ma/Ka dny		Analyst: jrp				
Lube Oil	ND	72.5	mg/Kg-dry mg/Kg-dry	. 1	10/5/2006				
Surr: o-Terphenyl	106	50-150	%REC	1	10/5/2006				
TEX - RBC			MINEC	1 .	10/5/2006				
Benzene		W8021B			Analyst: jrp				
Toluene	ND	0.0362	mg/Kg-dry	1	10/5/2006				
Ethylbenzene	ND	0.145	mg/Kg-dry	1	10/5/2006				
Kylenes, Total	ND	0.145	mg/Kg-dry	1	10/5/2006				
Surr: 4-Bromofluorobenzene	ND	0.435	mg/Kg-dry	1	10/5/2006				
	67.9	42.6-126	%REC	1	10/5/2006				
VTPH-GX	N	NTPH-GX							
Sasoline	ND	3.62	mg/Kg-dry	1	Analyst: jrp 10/5/2006				
Surr: 4-Bromofluorobenzene	65.3	50-150	%REC	1					
			/UI 120	1	10/5/2006				

10/5/2006

Date: 12-Oct-06

Collection Date: 10/4/2006 9:35:00 AM	CLIENT: Project:	Environmental Co Powell-Molalla / 0		west, Inc.			Lab Ord	er: 0610020)
Analyses Result Limit Qual Units DF Date Analyzed		0610020-10				Collection Da	ate: 10/4/2	006 9:25:00 AM	
NWTPH-DX	Client Sample ID:	W DISP-2'				Matr	ix: SOIL		
Diesel	Analyses		Result	Limit	Qual	Units	DF	Date Analyz	ed
Diese	NWTPH-DX		4	NWTPH-DX				A = 1	4. :
ND 58.8 A3 mg/Kg-dry 1 10/5/2006	Diesel		8290			ma/Ka-dry	10		ii: Jrp
Surr: o-Terphenyl 639 50-150 S,Ml %REC 1 10/5/2006	Lube Oil				A3	,			
BTEX - RBC	Surr: o-Terphen	yl							
Benzene	BTEX - RBC			SW8021B					
ND 0.118 mg/Kg-dry 1 10/5/2006	Benzene		ND			ma/Ka day	1		t: jrp
Ethylbenzene	Toluene								
Xylenes, Total	Ethylbenzene								
Surr: 4-Bromofluorobenzene 72.0	Xylenes, Total								
NWTPH-GX Gasoline 68.8 2.94 A mg/Kg-dry 1 10/5/2006	Surr: 4-Bromoflu	orobenzene							
Analyst: jrp Analyst: jrp	NWTPH-GX					701 CLC	'	10/5/2006	
Surr: 4-Bromofluorobenzene 65.3 50-150 %REC 1 10/5/2006			60 0					the second secon	i: jrp
Collection Date: 10/4/2006 9:35:00 AM		orobenzene			А				
Collection Date: 10/4/2006 9:35:00 AM			03.3	50-150		%REC	1	10/5/2006	
Matrix SOIL	Lab ID:	0610020-11				Callesting D	10/4/20	06.000.00	
National National	Client Sample ID:							06 9:35:00 AM	
NWTPH-DX		1.1 DISI 2					x: SOIL		
Diesel 1200 16.2 mg/Kg-dry 1 10/5/2006 Lube Oil ND 54.1 mg/Kg-dry 1 10/5/2006 Surr: o-Terphenyl 234 50-150 S,MI %REC 1 10/5/2006 TEX - RBC SW8021B Analyst: jrp Benzene ND 0.0270 mg/Kg-dry 1 10/5/2006 Toluene ND 0.108 mg/Kg-dry 1 10/5/2006 Ethylbenzene 0.119 0.108 mg/Kg-dry 1 10/5/2006 Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX Surr: 4-Bromofluorobenzene 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 16.0 2.70 A mg/Kg-dry	Knaiyses		Result	Limit	Qual	Units	DF	Date Analyze	d
1200	IWTPH-DX			NWTPH-DX				Analyst	
Lube Oil ND 54.1 mg/Kg-dry 1 10/5/2006 Surr: o-Terphenyl 234 50-150 S,MI %REC 1 10/5/2006 TEX - RBC SW8021B Analyst: jrp Benzene ND 0.0270 mg/Kg-dry 1 10/5/2006 Toluene ND 0.108 mg/Kg-dry 1 10/5/2006 Ethylbenzene 0.119 0.108 mg/Kg-dry 1 10/5/2006 Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX NWTPH-GX Analyst: jrp Surr: 4-Bromofluorobenzene 16.0 2.70 A mg/Kg-dry 1 10/5/2006			1200	16.2		ma/Ka-drv	1		Jıb
Surr: o-Terphenyl 234 50-150 S,MI %REC 1 10/5/2006 TEX - RBC SW8021B Analyst: jrp Benzene ND 0.0270 mg/Kg-dry 1 10/5/2006 Toluene ND 0.108 mg/Kg-dry 1 10/5/2006 Ethylbenzene 0.119 0.108 mg/Kg-dry 1 10/5/2006 Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX NWTPH-GX Analyst: jrp Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 16.0 2.70 A mg/Kg-dry 1 10/5/2006	Lube Oil		ND	54.1		,			
Analyst: jrp	Surr: o-Terphenyl		234	50-150	S,MI				
Surr: 4-Bromofluorobenzene ND 0.0270 mg/Kg-dry 1 10/5/2006	TEX - RBC		Н 2	SW8021B				Analyst	
Toluene ND 0.108 mg/Kg-dry 1 10/5/2006 Ethylbenzene 0.119 0.108 mg/Kg-dry 1 10/5/2006 Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 73.0 50.450 Mg/Kg-dry 1 10/5/2006						ma/Ka-dry	1),b
Ethylbenzene 0.119 0.108 mg/Kg-dry 1 10/5/2006 Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 73.0 50.450 MREC 1 10/5/2006			ND						
Xylenes, Total ND 0.324 mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX NWTPH-GX Analyst: jrp Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 73.0 50.450 10.450 1 10/5/2006	Ethylbenzene		0.119						
Surr: 4-Bromofluorobenzene 75.4 42.6-126 %REC 1 10/5/2006 WTPH-GX NWTPH-GX Analyst: jrp Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorobenzene 73.0 50.450 10.70 1 10/5/2006			ND	7					
WTPH-GX Gasoline 16.0 2.70 Analyst: jrp Surr: 4-Bromofluorohenzene 73.0 Fo. 150 Analyst: jrp	Surr: 4-Bromofluor	robenzene	75.4						
Gasoline 16.0 2.70 A mg/Kg-dry 1 10/5/2006 Surr: 4-Bromofluorohenzene 73.0 50.150	WTPH-GX			WTPH-GY					•
Surr: 4-Bromofluorohenzene	Gasoline				Α	ma/Ka-dry	1		Jrp
14.9 DU-15U WRFC 1 10/5/0000	Surr: 4-Bromofluor	obenzene	72.9	50-150		%REC	1	10/5/2006	

Date: 12-Oct-06

CLIENT:

Environmental Compliance Northwest, Inc.

Project:

Powell-Molalla / 05105

Lab Order:

0610020

Lab ID:

0610020-12

Collection Date: 10/4/2006 9:40:00

Client Sample ID: E DISP-2'		Collection Date: 10/4/2006 9:40:00 AM Matrix: SOIL								
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed				
NWTPH-DX		NWTPH-DX								
Diesel	23.4	15.9		mg/Kg-dry	4	Analyst: jrp				
Lube Oil	ND	53.2		mg/Kg-dry	1	10/5/2006				
Surr: o-Terphenyl	121	50-150		%REC	1	10/5/2006 10/5/2006				
STEX - RBC		SW8021B								
Benzene	ND	0.0266		mg/Kg-dry	1	Analyst: jrp				
Toluene	ND	0.106				10/5/2006				
Ethylbenzene	ND	0.106		mg/Kg-dry	1	10/5/2006				
Xylenes, Total	ND	0.319		mg/Kg-dry	1	10/5/2006				
Surr: 4-Bromofluorobenzene				mg/Kg-dry	1	10/5/2006				
- Transacrobenzone	75.0	42.6-126		%REC	1	10/5/2006				
WTPH-GX		NWTPH-GX				Amalust !				
Gasoline	5.64	2.66	Α	mg/Kg-dry	1	Analyst: jrp 10/5/2006				
Surr: 4-Bromofluorobenzene	71.1	50-150		%REC	1	10/5/2006				

CLIENT:

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

Date: 12-Oct-06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID MB-16915	SampType:		TestCo	de: 8260_S	Units: µg/Kg		Prep Da	te: 10/10/2	2006	Run ID: 50	73L_061010	^
Client ID: ZZZZZ	Batch ID:	16915	Testi	No: SW8260B			Analysis Da			SeqNo: 42		A
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	Highl imit	RPD Ref Val	%RPD		
1,1,1,2-Tetrachloroethane		ND	10.0					· iigi iziriik	THE DIVERVAL	70RPD	RPDLimit	Qual
1,1,1-Trichloroethane		ND	10.0									
1,1,2,2-Tetrachloroethane		ND	10.0									
1,1,2-Trichloroethane		ND	10.0									
1,1-Dichloroethane		ND	10.0									
1.1-Dichloroethene		ND	10.0									
1,1-Dichloropropene		ND	10.0									
1,2,3-Trichlorobenzene		4.52	10.0									
1,2,3-Trichloropropane		ND	10.0									J
1,2,4-Trichlorobenzene		4.09	10.0						*			
1,2,4-Trimethylbenzene		ND	10.0									J
.2-Dibromo-3-chloropropane		ND	10.0									
,2-Dibromoethane		ND	10.0									
,2-Dichlorobenzene		ND	10.0									
,2-Dichloroethane		ND	10.0									
,2-Dichloropropane		ND	10.0									
,3,5-Trimethylbenzene		ND	10.0									
,3-Dichlorobenzene		ND										
,3-Dichloropropane		ND	10.0									
,4-Dichlorobenzene		ND	10.0									
,2-Dichloropropane		ND	10.0									
-Butanone		ND	10.0									
-Chlorotoluene			20.0									
-Hexanone		ND ND	10.0									
-Chlorotoluene			20.0									
-Isopropyltoluene		ND	10.0									
-Methyl-2-pentanone		ND	10.0									
cetone		ND	20.0									
crylonitrile		ND	50.0									
Benzene		ND	50.0									
		ND	10.0									

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 Blan

Page 1 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID MB-16915 Client ID: ZZZZZ	SampType: MBLK Batch ID: 16915		de: 8260_S No: SW8260B	Units: µg/Kg		Prep Da Analysis Da	ate: 10/10/		Run ID: 59 SeqNo: 42	73L_061010)A
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	Highl imit	RPD Ref Val			
Bromobenzene	ND	10.0					- ingriciriii	RFD Rei Val	%RPD	RPDLimit	Qual
Bromochloromethane	ND	10.0									
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbontetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND										
Chloroform	1.29	10.0 10.0									
Chloromethane	ND										J
cis-1,2-Dichloroethene	ND	10.0									3
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane		10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	10.0									
Methyl tert-butyl ether	ND	20.0									
Methylene chloride	ND	10.0									
n-Butylbenzene	ND	50.0									
n-Propylbenzene	ND	10.0									
Naphthalene	ND	10.0									
o-Xylene	7.71	10.0									
	ND	10.0									J
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
ert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									

Qualifiers:

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Page 2 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID MB-16915 Client ID: ZZZZZ	SampType Batch ID:			de: 8260_S do: SW8260B	Units: µg/Kg		Prep Da	ate: 10/10/		Run ID: 59	973L_061010 21483	0A
Analyte	3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	
trans-1,2-Dichloroethene		ND	10.0			4			THE PROPERTY OF	70IN-D	RPDUMI	Qua
trans-1,3-Dichloropropene		ND	10.0									
Trichloroethene		ND	10.0									
Trichlorofluoromethane		ND	10.0							× -		
Vinyl chloride		ND	10.0									
Surr:1,2-Dichloroethane-d4		105.9	0	100	0	400	1-					
Surr:4-Bromofluorobenzene		96.77	0	100	0	106	71.5	112	0	0		
Surr:Dibromofluoromethane		107	0	100	0	96.8	75.7	122	0	0		
Surr: Toluene-d8		98.83	0		0	107	64.3	124	0	0		
0				100	0	98.8	74.9	120	0	0		
Sample ID LCS-16915	SampType:	LCS	TestCode	e: 8260_S	Units: µg/Kg		Drop D	40404				
Client ID: ZZZZZ	Batch ID:	16915		: SW8260B	ornio. pg/rig			te: 10/10/2		Run ID: 59	73L_061010	Α
			163040	O. SAAOSONB			Analysis Da	te: 10/10/2	2006	SeqNo: 42	1482	
Analyte 1,1-Dichloroethene		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene		39.18	10.0	40	0	98	65.4	133	0			
Chlorobenzene		39.38	10.0	40	0	98.4	78	123	0	0		
Toluene		35.2	10.0	40	0	88	79.5	125	0	0		
		35.66	10.0	40	0	89.2	77.5		0	0		
Trichloroethene		38.52	10.0	40	0	96.3	72.4	132 124	0	0		
Sample ID 0610013-04BMS	CampaTi						12.4	124	0	0		
Client ID: ZZZZZ	SampType:		TestCode	: 8260_S	Units: µg/Kg		Prep Dat	e: 10/10/2	006	Run ID: 597	73L_061010A	^
	Batch ID:	16915	TestNo	SW8260B		,	Analysis Dat			SeqNo: 421		4
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	01
,1-Dichloroethene		44.37	10.0	40	0	111				701 T D	וורטטוווונ	Qual
Senzene		46.16	10.0	40	0		69.2	158	0	. 0		
Chlorobenzene		39.54	10.0	40	0	115	71.7	147	0	0		
oluene		40.79	10.0	40		98.8	75	148	0	0		
			. 5.0	40	0	102	75.8	153	0	0		
richloroethene		44.3	10.0	40	0	111	77.1	138	· ·	U		

Qualifiers:

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Page 3 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

									- corcouc.	0200_5		
Sample ID 0610013-04BMSD Client ID: ZZZZZ	SampType Batch ID	: MSD : 16915		de: 8260_S No: SW8260E	Units: µg/Kg		Prep Da			Run ID: 59	973L_061010	DA .
			resu	NO. SANOZOUE			Analysis Da	ate: 10/10/	2006	SeqNo: 42	21491	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	Highl imit	RPD Ref Val	0/1000	DDD:	
1,1-Dichloroethene		38.49	10.0	40	0	96.2	69.2			%RPD	RPDLimit	Qual
Benzene		39.93	10.0	40	0	99.8		158		14.2	20	
Chlorobenzene		34.49	10.0	40	0		71.7	147	46.16	14.5	20	
Toluene		35.39	10.0	40	0	86.2 88.5	75	148	39.54	13.6	20	
Trichloroethene		38.24	10.0	40	0		75.8	153	40.79	14.2	20	
Sample ID CCV-16915					U	95.6	77.1	138	44.3	14.7	20	
	SampType	CCV	TestCoo	de: 8260_S	Units: µg/Kg		Prep Da	te:		D ID . 50	701 001011	
Client ID: ZZZZZ	Batch ID:	16915	TestN	lo: SW8260B							73L_061010	A
Analyte							Analysis Da	te: 10/10/2	2006	SeqNo: 42	1481	
		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Ougl
1,1-Dichloroethene		65.82	10.0	60	0	110	80				TO DUTIE	Qual
1,2-Dichloropropane		62.54	10.0	60	0	104		120	0	0		
Chloroform		64.72	10.0	60	0	104	80 80	120	0	0		
Ethylbenzene		58.91	10.0	60	0	98.2		120	0	0		
Toluene		58.84	10.0	60	0		80	120	0	0		
/inyl chloride		56.42	10.0	60	0	98.1	80	120	0	0		
Cample ID COV 40045						94	80	120	0	0		
Sample ID CCV-16915	SampType:		TestCod	e: 8260_S	Units: µg/Kg		Prep Date	e:		Run ID: 597	721 0040404	
Client ID: ZZZZZ	Batch ID:	16915	TestNo	o: SW8260B			Analysis Dat		000		73L_061010 <i>A</i>	4
nalyte		_					mary 313 Dat	C. 10/11/2	006	SeqNo: 42 1	1751	
		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Ougl
,1-Dichloroethene		62.39	10.0	60	0	104	80					Qual
,2-Dichloropropane		60.24	10.0	60	0	100	80	120	0	0		
Chloroform		60.12	10.0	60	0	100	80	120 120	0	0		
thylbenzene		55.04	10.0	60	0	91.7	80		0	0		
oluene		55.34	10.0	60	0	92.2	80	120	0	0		
				- 5	U	32.2	80	120	0	0		
inyl chloride		53.4	10.0	60	0	89	80	120	0	U		

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blan

Page 4 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

										restedue.	DIEARD	C_ S	
Sample ID MBLK Client ID: ZZZZZ		SampType Batch ID:			ode: BTEXRE	C_S Units: mg	g/Kg		ate: 10/5/2			GC-H_061005	A
Analyte			Result	PQL		SPK Ref Val	%REC				SeqNo: 4		
Benzene			0.011	0.0250			701 20	LOWLINII	nigriLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Toluene			0.009	0.100									J
Ethylbenzene			0.0075	0.100									.1
Xylenes, Total			0.0075	0.100									
Surr:4-Bromoflu	orobenzene		3.841	0.0500	5	0	76.8	42.6	126	0	O		J
Sample ID LCS		SampType	LCS	TestCo	de: BTEXRB	C_S Units: mg	/Ka		ate: 10/5/2				
Client ID: ZZZZZ		Batch ID:	16885		No: SW8021	•		Analysis Da			SeqNo: 42	C-H_061005,	A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene Toluene			1.222	0.0250	1.25	0.011	96.9	68.7	117	0			
Ethylbenzene			1.234	0.100	1.25	0.009	98	71.4	115		0		
			1.238	0.100	1.25	0.0075	98.5		115	0	0		
Xylenes, Total			3.768	0.300	3.75	0.0215	99.9		116	0	0		
Sample ID 061002	0-08AMS	SampType:	MS	TestCod	de: BTEXRBO	S_S Units: mg/	Ka-dry	Prep Da					
Client ID: T4-N-13	;	Batch ID:	16885		lo: SW8021B	9		Analysis Da			Run ID: G(SeqNo: 42	C-H_0610054	1
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC			RPD Ref Val	%RPD	RPDLimit	Ougl
Benzene			1.343	0.0303	1.513	0.007869	88.2	32.2	108				Qual
Foluene			1.347	0.121	1.513	0.001211	89	56.7		0	0		
Ethylbenzene			1.387	0.121	1.513	0.002421	91.5	53.3	110	0	0		
Kylenes, Total			4.199	0.363	4.54	0.007869	92.3	47.5	107 119	0	0		
ample ID 0610020	-08AMSD	SampType:	MSD	TestCod	e: BTEXRBC	S Units: mg/l	Ka-dry	Prep Dat	0: 40/5/00				
Client ID: T4-N-13	•	Batch ID:	16885		o: SW8021B						Run ID: GC	-H_061005A	
nalyte								Analysis Dat	e: 10/5/20	06	SeqNo: 42 (0247	
Benzene			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
oluene			1.387	0.0303	1.513	0.007869	91.2	32.2	108	1.343	3.24	00	
thylbenzene			1.38	0.121	1.513	0.001211	91.1	56.7	110	1.343		20	
u iyibenzene			1.41	0.121	1.513	0.002421		00.1	110	1.04/	2.40	20	

Qualifiers:

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Page 5 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXRBC_S

Sample ID 0610020-08AMSI Client ID: T4-N-13'	SampType: MSD Batch ID: 16885		de: BTEXRBC_S No: SW8021B	Units: mg/Kg	-dry	Prep Da Analysis Da	ite: 10/5/2		Run ID: G(SeqNo: 42	C-H_061005/	4
Analyte	Result	PQL	SPK value SI	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	4.274	0.363	4.54	0.007869	94	47.5	119	4.199	1.76	20	Gaar
Sample ID CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 16885		de: BTEXRBC_S do: SW8021B	Units: mg/Kg		Prep Da Analysis Da		006	Run ID: GC SeqNo: 420	C-H_061005A	1
Analyte	Result	PQL	SPK value SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total	2.604 2.618 2.68 8.106	0.0250 0.100 0.100 0.300	2.5 2.5 2.5 7.5	0 0 0	104 105 107 108	85 85 85 85	115 115 115 115	0 0 0	0 0 0		- Guar
Sample ID CCV Client ID: ZZZZZ Analyte	SampType: CCV Batch ID: 16885 Result		e: BTEXRBC_S o: SW8021B SPK value SP	Units: mg/Kg	%REC	Prep Dat Analysis Dat	e: e: 10/5/20	06	Run ID: GC SeqNo: 420	239	
Benzene	2.104	0.0250	2	0		•		RPD Ref Val	%RPD	RPDLimit	Qual
Foluene Ethylbenzene	2.124	0.100	2	0	105 106	85 85	115 115	0	0 0		
Xylenes, Total	2.175 6.602	0.100 0.300	2 6	0	109	85 85	115 115	0	0		

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

										csicoue.	NWTPHD	X_S	
Sample ID:		SampType: Batch ID:			le: NWTPHD o: NWTPH-D	X_S Units: mg/Kg		Prep Date Analysis Date	e: 10/4/20 e: 10/5/20		Run ID: 0	GC-M_061005 20289	5A
Analyte	-		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	0
Diesel Lube Oil Surr: o-	Terphenyl		4.806 ND 36.67	15.0 50.0 0	33.33	0	110		150	0	7014-15		Qua
Sample ID Client ID:	LCS ZZZZZ	SampType: Batch ID:			e: NWTPHD)	CS Units: mg/Kg		Prep Date Analysis Date	: 10/4/20	06		C-M_061005	A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Diesel Lube Oil			191.4 166.8	15.0 50.0	166.6 166.6	4.806 0	112 100	76.3 69.9	125 127	0	0		Qua
Client ID:	0610020-09ADUP T2/3-SSW-7'	SampType: Batch ID:			e: NWTPHDX	CS Units: mg/Kg	-	Prep Date: Analysis Date			Run ID: G	C-M_061005	Α
Analyte	<u> </u>		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		- 4	8.536 ND	21.7 72.5	0	0	0	0	0	10.18	0	20	J
Sample ID Client ID: Analyte	0610017-08ADUP ZZZZZ	SampType: I Batch ID:	16881		: NWTPHDX	_S Units: mg/Kg		Prep Date: Analysis Date:				C-M_061005	A
Diesel			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit I	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil			6.052 ND	20.3 67.8	0 0	0	0	0	0	5.926 0	0	20	J
Client ID:	CCV	SampType: (Batch ID: 1			: NWTPHDX	S Units: mg/Kg		Prep Date: Analysis Date:	10/5/200	6		C-M_061005A	\
Analyte Diesel			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
/IHSHI			851.3	15.0	799.9	0	106						

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Page 7 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

C1 ID										restcoue.	IV WITTI	JA_S	
Sample ID Client ID:	ZZZZZ	SampType Batch ID:			de: NWTPHD No: NWTPH- (DX_S Units: mg/Kg		Prep Da	ate: ate: 10/5/2	006	Run ID:	GC-M_06100 420291	5A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI		Qua
Lube Oil			393.1	50.0	400	0	98.3		115			0	Qua
	ZZZZZ	SampType: Batch ID:			de: NWTPHD do: NWTPH- D	X_S Units: mg/Kg		Prep Da Analysis Da		006		GC-M_06100	5A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD) RPDLimit	Qual
Diesel Lube Oil			850.5 395.4	15.0 50.0	799.9 400	0	106 98.9	85 85	115 115	0		0	Guai
	CCV ZZZZZ	SampType: Batch ID:			e: NWTPHD) o: NWTPH-D	X_S Units: mg/Kg		Prep Da Analysis Da		006	Run ID: 0	GC-M_061005	A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel _ube Oil			718.8 373.2	15.0 50.0	666.6 400	0	108 93.3	85 85	115 115	0)	
Sample ID Client ID:	ZZZZZ ZZZZZ	SampType: Batch ID:			e: NWTPHDX	C_S Units: mg/Kg		Prep Dai				C-M_061005	A
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil			868.4 457.9	15.0 50.0	799.9 500	0	109 91.6	85 85	115 115	0	0		Guai
	CCV ZZZZZ	SampType: Batch ID:			e: NWTPHDX e: NWTPH-Dx	CS Units: mg/Kg		Prep Dat Analysis Dat		06	Run ID: G SeqNo: 42	C-M_061005 <i>i</i>	A
nalyte Diesel	-		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
desel Gerosene ube Oil			883.9 495.2	15.0 15.0	799.9 500	0	111 99.1	85 85	115 115	0	0		
223 011			396.3	50.0	400	0	99.1	85	115	0	0		

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Page 8 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID Client ID:	CCV ZZZZZ		Type:	CCV 16881		ode: NWTPHD No: NWTPH- [DX_S Units: mg/Kg		Prep Da Analysis Da		006	Run ID: GC-M_061005A SegNo: 420651			
Analyte		-	-	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD		Qual	
		1		498.1	15.0	500	0	99.6	85	115	0	()		
	ZZZZZ	Samp Bato		CCV 16881		de: NWTPHD No: NWTPH-D		Prep Da Analysis Da		Run ID: GC-M_061005A SeqNo: 420672					
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Kerosene				497	15.0	500	0	99.4	85	115	0	7,5,12		Quai	

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID: Client ID: Analyte	MBLK ZZZZZ	SampType Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 10/5/2006 Run ID: GC-H_061005B TestNo: NWTPH-Gx Analysis Date: 10/5/2006 SeqNo: 420269 PQL SPK value SPK value WREC LowLimit HighLimit RPD Ref Val WRPD RPDLimit Output
Gasoline Surr:4-	Bromofluorobenzene		0.6805 3.65	2.50 0 5 0 73 50 150 0 0
Sample ID Client ID:	LCS ZZZZZ	SampType Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: 10/5/2006 Run ID: GC-H_061005B TestNo: NWTPH-Gx Analysis Date: 10/5/2006 SeqNo: 420270
Analyte Gasoline			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu
Sample ID	0610020-06ADUP	0 -	52.47	2.50 50 0.6805 104 53.5 121 0 0
Client ID:	T3-N-13'	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 10/5/2006 Run ID: GC-H_061005B TestNo: NWTPH-Gx Analysis Date: 10/5/2006 SeqNo: 420572
Analyte			Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qu
Gasoline			1.37	3.11 0 0 0 0 0 2.049 0 20 J
Sample ID Client ID:	0610020-08ADUP T4-N-13'	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg-dry Prep Date: 10/5/2006 Run ID: GC-H_061005B TestNo: NWTPH-Gx Analysis Date: 10/5/2006 SeqNo: 420575
Analyte			Result	PQL SPK value SPK Ref Val %RFC Lowl imit. Highl imit. BBD B-63/44
Gasoline			ND	3.03 0 0 0 0 0 0 0 0 RPDLimit Qua
	CCV ZZZZZ	SampType: Batch ID:		TestCode: NWTPHGX_S Units: mg/Kg Prep Date: Run ID: GC-H_061005B TestNo: NWTPH-Gx Analysis Date: 10/5/2006 SeqNo: 420271
Analyte ————— Gasoline			Result 126.4	PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua

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Page 10 of 11

Environmental Compliance Northwest, Inc.

Work Order:

0610020

Project:

Powell-Molalla/05105

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID Client ID:	ZZZZZ	SampType: CCV Batch ID: 16884		TestCode: NWTPHGX_S Units: mg/Kg TestNo: NWTPH-Gx				ate: 10/5/2	Run ID: GC-H_061005B SeqNo: 420275			
Analyte Gasoline		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		113.3	2.50	115	0	98.5	80	120	0	0		
Sample ID	CCV	SampType: CCV	TestCod	e NWTPHG	Y S Unite: m=///							
Client ID:	ZZZZZ	Batch ID: 16884		TestCode: NWTPHGX_S Units: mg/Kg TestNo: NWTPH-Gx				Prep Date: Analysis Date: 10/5/2006				3
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	SeqNo: 42	RPDLimit	Oual
Gasoline		121.8	2.50	125	0	97.4	80	120	0	0		Qual