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December 6, 2018 Project 2004-004.002

Ms. Jing Song Washington Department of Ecology -Toxic Cleanup Program, NWRO 3190 160th Avenue Southeast Bellevue, Washington 98008

Re: Fourth Quarter 2018 Groundwater Monitoring Report, Former Provisioner's Express, Inc. Facility, 2102 West Valley Highway North, Auburn, Washington, Ecology Facility ID 91612121, Cleanup Site ID 6847, VCP Project No. 3206

Dear Ms. Song:

Environmental Technologies Group, Inc. (ETG), on behalf of Commerce Road Terminals, LLC (CRT), has prepared this groundwater monitoring report to provide the results of the fourth quarter 2018 groundwater monitoring completed at the former Provisioner's Express, Inc. (Provisioner's) facility (Site) located at 2102 West Valley Highway North in Auburn, Washington. This report presents the details and findings of the groundwater monitoring activities conducted at the Site on November 15, 2018.

SITE DESCRIPTION

The former Provisioner's facility is located at 2102 West Valley Highway North Auburn, Washington, east of the intersection of 22nd street Northwest and West Valley Highway North, northwest quarter of Section 12, Township 21 North, Range 4 East, Willamette Meridian in King County, Washington (Figure 1). The Tax Parcel No. for the property is 1221049034, and the zoning is designated M-1, Light Industrial.

The facility is currently operated by Estes Express Lines (Estes), a motor freight transportation company. Estes uses the Site primarily as a trucking terminal, and includes a maintenance garage.

The property is fully paved or covered by buildings and has a storm water conveyance system consisting of catch basins that are connected to an oil/water separator through underground piping with discharge to the municipal sewer system. Pavement is primarily asphalt with concrete pads surrounding the on-Site buildings and loading bays.

The topography of the property is relatively flat with an approximate elevation of 65 feet above mean sea level. Mill Creek and the White River Park Wetland System are the

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nearest surface water bodies and are located approximate 200 feet to the southeast of the Site. A drainage ditch flowing to the White River Park Wetland System is present near the south property boundary, approximately 40 feet south of the Site. The property and the Site are separated from Mill Creek and the White River Park Wetland System by an adjoining property. The nearest major surface water body, the Green River, is located approximately 1.7 miles east of the Site.

The property contains a single Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) site that is defined by the lateral and vertical extent of soil and groundwater impacted by diesel and oil range petroleum hydrocarbons (TPH-d and TPH-o) at concentrations greater than applicable MTCA Method A Cleanup Levels (CULs). Under the MTCA program, the Facility Site Identification No. is 91612121, Cleanup Site Identification No. is 6847, and in July 2018 the Voluntary Cleanup Program (VCP) number was change from NW2532, to VCP No. 3206 when CRT became responsible for the Site cleanup.

BACKGROUND

Soil and groundwater at the Site were impacted by petroleum hydrocarbon releases from conveyance piping related to a 550-gallon used oil underground storage tank (UST) located near the northwest corner of the truck maintenance building (Figure 2). The UST and approximately 350 cubic yards of petroleum-contaminated soil (PCS) were removed for disposal off-Site, and four monitoring wells, designated MW-1, MW-2, MW-3, and MW-4, were constructed in December 1998 (EMR, 1999).

In January 2000, Ecology issued a conditional No Further Action (NFA) determination for the Site. The NFA contained the condition that quarterly groundwater monitoring and reporting be continued until the *site demonstrates sustained, continuous compliance with Model Toxics Control Act (MTCA) Groundwater Cleanup Levels (CULs) for at least one year.* The NFA also stipulated that analytical results for groundwater compliance *shall include BTEX {benzene, toluene, ethylbenzene, and xylene), diesel, and heavy oils.*" Available records indicate that the monitoring wells were sampled approximately every quarter from December 1998 until October 2002.

In November 2002, the Site owner petitioned for a full NFA determination based on three (3) years of data demonstrating that benzene groundwater concentrations greater than MTCA Method A CULs was confined to the area on the north side of the maintenance building around MW-2. At that time, the sample collected from MW-2 had a gasoline range petroleum hydrocarbon (TPH-g) concentration of 180 micrograms per liter (μ g/L) and a benzene concentration of 12.0 μ g/L. The reported TPH-g concentration was less than the MTCA Method A CUL of 800 μ g/L. However, the benzene concentration exceeded the MTCA Method A CUL of 5 μ g/L. No other BTEX compounds, TPH-d, or TPH-o were reported in the sample collected from MW-2. Reported contaminant concentrations for the samples collected from the remaining monitoring wells were also below MTCA Method A CULs.

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Groundwater sampling was discontinued in late 2002 and the Site did not receive a full NFA determination, due to the benzene concentration exceeding the MTCA Method A CUL in the samples from MW-2. Records indicate that the Site was subsequently dropped from Ecology's VCP due to inactivity.

The Site re-entered the VCP in August 2011 and was assigned VCP No. NW 2532. Quarterly groundwater sampling of the four on-Site wells was resumed in August 2011. On March 26, 2012, Ecology notified the Site owner that the January 2000 conditional NFA determination was rescinded because the benzene concentrations in groundwater samples collected from well MW-2 remained greater than the MTCA Method A CUL and the previous groundwater remedy (excavation of petroleum impacted soils followed by groundwater monitoring) did not achieve and maintain compliance with the applicable MTCA Method A CULs.

On November 28, 2012, a 12,000-gallon diesel fuel UST was removed south of the truck maintenance building (Figure 2). According to available information, the UST was emptied and removed from service in 1998 when the 550-gallon waste oil UST was decommissioned, and had not been operated between 1998 and 2012. EPI personnel oversaw the UST decommissioning activities and collected nine (9) soil samples and a water sample from the excavation. The diesel contaminated water in the excavation was reportedly rinsate from the UST that was spilled as it was removed from the excavation due to improper rigging and hoisting of the UST. EPI prepared the *Underground Storage Tank Site Assessment Report* (EPI, 2013a), dated January 4, 2013, for submittal to Ecology's Underground Storage Tank Division.

In an opinion letter dated April 22, 2013, Ecology requested installation of two additional monitoring wells designated MW-5 and MW-6. Well MW-5 was installed at the southwest corner of the truck maintenance building, near the on-Site oil/water separator (OWS), to monitor groundwater downgradient of MW-1. Well MW-6 was installed at the southeast corner of the former 12,000-gallon diesel UST excavation to evaluate groundwater quality based on the reported petroleum hydrocarbon concentrations in a water sample collected from the spilled rinsate water in the UST excavation (EPI, 2013b).

In October 2013, EPI performed a site investigation at Ecology's request. The investigation included advancing nine (9) direct-push soil borings DP-1 through DP-9 (Figure 2); five were located around MW-1 and four were located downgradient of MW-6. Laboratory analytical results indicated soil impacts around MW-1 were limited to location DP-3, which was immediately adjacent to the exterior wall of the northwest corner of the Truck Maintenance Building. This result was anticipated because a small quantity of impacted soil was left in place immediately under the truck maintenance building to maintain geotechnical stability during impacted soil excavation. None of the remaining soil samples had detections for petroleum hydrocarbons (EPI, 2013b).

On August 26, 2016, EPI directed the advancement of two soil borings, designated BH-1 and BH-2 for soil sample collection, and construction of two conditional point of compliance (POC) monitoring wells, designated MW-7 and MW-8. BH-1 and BH-2 were advanced east of the former 12,000-gallon diesel UST to evaluate subsurface conditions immediately downgradient of the former UST. Well MW-7 was installed southeast and downgradient of the former 12,000-gallon diesel UST and existing well MW-6. Well MW-8 was installed northeast of MW-7, also downgradient of the former 12,000-gallon diesel UST and existing well MW-6. The purpose of the POC monitoring wells was to monitor groundwater conditions downgradient of the former 12,000-gallon diesel UST, which is a source area for diesel impacts to groundwater at the Site (EPI, 2017a). The soil boring and monitoring wells locations are presented on Figure 2.

On August 11, 2017, monitoring well MW-9 was installed by Holt Services near the northwest corner of the truck maintenance building (Figure 2). The additional well was requested by CRT as part of their environmental due diligence prior to their purchase of the property. Historical direct-push sampling data from this location indicated TPH-d and TPH-o above MTCA Method A in a groundwater sample collected from the boring (EPI, 2017b).

On May 17, 2018, during collection of depth-to-water measurements, asphalt sealant was encountered in the monument for MW-8. After removal of the asphalt sealant, it was discovered that the locking expansion plug for the monitoring well was loose, and that asphalt sealant had seeped past the plug. Visible material was skimmed from the well surface and the monitoring well was purged of approximately 30 gallons of groundwater prior to sampling. TPH-d and TPH-o were reported above MTCA Method A cleanup levels in the groundwater sample collected on May 17, 2018.

On June 5, 2018, ETG cleaned the casing for monitoring well MW-8, using clean absorbent pads to wipe the well casing. Following cleaning, the well was developed by extracting water with a development pump beginning at the top of the groundwater surface and lowering the pump as groundwater dropped in elevation. This process was repeated approximately 15 times until the purge water no longer changed in color between purging events. A total of 25 gallons of groundwater was removed from the well. The well was resampled following cleaning and development. Though significant reduction in TPH-d and TPH-o concentrations were reported, laboratory analytical results still reported TPH-d and TPH-o above MTCA Method A cleanup levels in the groundwater sample.

Remedial System

In 2014, because groundwater data indicated that natural attenuation of the residual TPH-d and TPH-o impacts was not occurring at a rate that would result in a reasonable restoration timeframe, an active groundwater remediation system was designed, installed, and operated for the area around MW-1 as described in the following.

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In May 2014, EPI installed three shallow air injection wells at locations upgradient of MW-1 (Figure 2) to add dissolved oxygen (DO) to the groundwater. The increased DO concentrations in groundwater would stimulate existing aerobic bacteria by providing the oxygen necessary for those bacteria to metabolize dissolved petroleum hydrocarbons in groundwater at a higher rate.

Each of the shallow air injection wells was equipped with a 1-foot section of Kerfoot Technologies C-Sparger® screen set in a sand filter pack and set below groundwater at approximately 14 to 15 feet bgs. Pressurized air pumped through the C-Sparger® screens forces air, containing oxygen, into groundwater as microbubbles, greatly increasing the surface area of the bubbles for more efficient oxygenation of the groundwater. The remaining well annulus was sealed using hydrated bentonite chips and the surface was completed in 8-inch diameter flush completion steel monuments set in concrete.

An appropriately-sized rotary vane air compressor was installed in the fenced area at the north end of the truck maintenance building to provide air to the shallow air injection wells. The shallow air injection wells are connected to the compressor using 1-inch diameter polyvinyl chloride (PVC) piping installed below grade into each of the well monuments. PVC air supply lines were installed in trenches that were appropriately backfilled and patched with asphalt at the surface to match the surrounding pavement grade.

The remediation system was started and tested on May 15, 2014 after quarterly groundwater monitoring was completed. An electrical issue with the compressor's motor caused the air injection remediation system to shut down in August 2014. Analytical results from the August 2014 monitoring event indicated that TPH-d and TPH-o concentrations were not reported, at or above laboratory method reporting limits (MRLs) in the sample from MW-1. Based on the favorable result, remediation system operation was suspended at MW-1 from August 2014 to April 2015 so that groundwater data could be collected to demonstrate that groundwater was remediated to concentrations below Ecology MTCA Method A Groundwater CULs, and to provide data intended to demonstrate that contaminant concentration rebound was not occurring.

The positive response to operation of the air injection remediation system at MW-1 demonstrated that expansion to remediate impacted groundwater at MW-6 was warranted. In January 2015, EPI installed three additional shallow air injection wells at locations upgradient of MW-6 (Figure 2). The three wells are constructed like the air injection wells at MW-1, equipped with 1-foot lengths of Kerfoot Technologies C-Sparger® screen set in a sand filter pack and set below groundwater at approximately 14 to 15 feet bgs.

Operation of the expanded air injection remediation system at MW-6 was initiated on April 3, 2015. The expanded system at MW-6 ran from April until June 2015 when an

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electrical issue with the compressor's motor caused the air injection remediation system to shut down, requiring replacement.

Repairs to the air injection system were completed and the remediation system was restarted on February 3, 2016. However, the system was not operational during the June 21, 2016 groundwater sampling event and inspection revealed that the compressor motor was damaged due to overheating. EPI was informed that the system had been off for several weeks prior to the sampling event.

EPI evaluated the potential reasons for the compressor motor overheating and the likely cause was low voltage power throughout the area, which was measured at 208 volts at the air injection system panel. The actual voltage was lower than the design voltage of 220-230 volts. EPI concluded that although the compressor motor was rated to operate at 208 volts, voltage fluctuations below 208 volts caused high amperage on the motor, resulting in excessive heat that eventually burned-out the motor.

In November 2016, EPI installed a 1.5 horsepower, Republic Manufacturing, Model DRT-425 rotary vane compressor with a 208-volt-specific motor. The compressor was started up on November 16, 2016. The system was operational before and after the December 20, 2016 groundwater sampling event. Sometime between the December 20, 2016 monitoring event and a site visit by EPI personnel on March 20, 2017, the air injection system shut down. On March 20, 2017, EPI personnel inspected the compressor and determined that the rotary vanes were destroyed and required replacement. The compressor repair work was completed under warranty at the manufacturer's facility.

The repaired compressor was reconnected and returned to service on June 19, 2017. Both areas of the air injection system MW-1 and MW-6, were back in operation following the completion of groundwater monitoring on June 19, 2017.

Since installation in 2015, air injection well Al-6, located near monitoring well MW-6, consistently had little to no air flow. EPI tested, evaluated, and attempted to increase air flow through this point with no measurable improvement and determined that the well was plugged and unrepairable. On June 26, 2017, Holocene Drilling, under EPI direction, decommissioned Al-6 per Ecology requirements and replaced it with air injection well Al-6R.

The air injection system was inspected during a Site visit by EPI on December 14, 2017 and again during quarterly monitoring on December 20, 2017 and was operating as designed with no excessive heat or mechanical issues noted. EPI returned to the property on January 2, 2018 to re-sample wells MW-4, MW-6, and MW-6 and noted that the air compressor was not running. The compressor was replaced, and the air injection system re-started (EPI, 2018).

The air injection system has continued to operate since January 2018, with the exception of maintenance events and prior to some monitoring events.

GROUNDWATER MONITORING

On November 15, 2018, ETG conducted a groundwater monitoring event which included collection of depth-to-water measurements from monitoring wells MW-1 through MW-9. As requested by Ecology, groundwater samples were collected from monitoring wells MW-1, MW-3, MW-6, MW-8, and MW-9. Depth-to-water measurements and groundwater elevation data are provided in Table 1. Operation of the air injection system was suspended approximately ½-hour prior to the monitoring event.

Monitoring Procedures

During the monitoring event, groundwater samples were collected utilizing "low-flow" sampling techniques in general accordance with the United States Environmental Protection Agency (USEPA) Low-Flow Groundwater Monitoring Procedures (USEPA, 1996). Prior to sampling, depth-to-water measurements were used to determine the static water level in each well. During purging, field parameters including: pH, conductivity, temperature, oxidation-reduction (Redox), and dissolved oxygen were measured utilizing a flow-through cell. Groundwater samples were collected after at least three sequential field parameter readings had stabilized to within the limits specified in the USEPA procedure and the water level was below the top of the screened interval. Field sampling data, including depth-to-water at the completion of sampling were recorded on field sampling data sheets (FSDSs). Copies of FSDSs are provided in Attachment A.

Groundwater samples were collected from disposable discharge tubing connected to the peristaltic pump and transferred directly to laboratory-supplied containers with as little agitation as possible. Groundwater samples were labeled with a unique blind code and delivered in an iced cooler using chain-of-custody (COC) procedure to Pace Analytical Services, LLC (PACE) in Minneapolis, Minnesota. All groundwater samples were analyzed for TPH-d and TPH-o by Ecology Method NWTPH-Dx. For quality assurance/quality control (QA/QC) purposes, a duplicate groundwater sample was collected from monitoring well MW-9.

All purge water, development water, and decontamination water was stored on-Site in a United States Department of Transportation (USDOT) approved 55-gallon drum pending proper disposal.

Groundwater Elevation and Flow Direction

Based on the depth-to-water measurements collected on November 15, 2018 from the nine (9) shallow monitoring wells, a groundwater elevation contour map was generated for the Site (Figure 3) using field measurements and data from a well survey completed on September 19, 2017. Groundwater elevation data indicated a predominantly easterly groundwater flow direction, consistent with prior monitoring events. The horizontal groundwater gradient was calculated to be less than 0.01 feet per foot (ft/ft) during the November 15, 2018 groundwater monitoring event.

Groundwater Analytical Results

A summary of select laboratory analytical results for groundwater samples collected from monitoring wells MW-1, MW-3, MW-6, MW-8, and MW-9 on November 15, 2018 are provided in Table 2 along with Ecology MTCA Method A CULs for comparison. TPH-d and TPH-o analytical results are also presented on Figure 4. A copy of the laboratory analytical report is provided as Attachment B.

Analytical results for groundwater samples collected from monitoring wells MW-1, MW-3, MW-6, MW-8, and MW-9 on November 15, 2018 indicated the following:

Diesel Range Hydrocarbons

• TPH-d was not reported at, or above, the laboratory MRL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-6, MW-8 and MW-9. All laboratory MRLs were below the Ecology MTCA Method A CUL of 500 micrograms per liter (µg/L).

Oil Range Hydrocarbons

• TPH-o was not reported at, or above, the laboratory MRL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-6, MW-8 and MW-9. All laboratory MRLs were below the Ecology MTCA Method A CUL of 500 µg/L.

Total Diesel and Oil Range Hydrocarbons

• Total TPH-d and TPH-o was reported below the laboratory MRL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-6, MW-8 and MW-9.

REMEDIAL SYSTEM OPERATION

On November 15, 2018 at 6:30 AM, operation of the air injection system was suspended for the groundwater monitoring event. Following completion of the monitoring event, a system maintenance event was completed. The external filter for the air injection system blower was inspected, the condensate drains blown down, and flow and pressure readings collected. The air injection system resumed operations after completion of the maintenance event. A copy of the air injection treatment system data sheet (TSDS) is provided as Attachment C.

Dissolved oxygen data collected during the November 2018 monitoring event (Table 1) indicate higher concentrations than August 2018, consistent with analytical results reported during the event.

Based on the November 2018 monitoring results, air injection system operation will be suspended at the Site.

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SCHEDULED ACTIONS

The new proposed groundwater monitoring well downgradient of MW-8 will be installed prior to the first quarter groundwater monitoring event, which is scheduled to occur in February 2018. Groundwater level measurements will be collected from monitoring wells MW-1 through MW-9, and the new proposed monitoring well. Groundwater samples will be collected from monitoring wells MW-1, MW-3, MW-6, MW-8, MW-9, and the new monitoring well, and analyzed for TPH-d and TPH-o.

If there are any questions regarding this report please call.

Sincerely,

Environmental Technologies Group, Inc.

Daniel J. Landry

Senior Project Manager

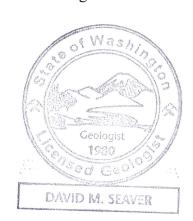
Attachments: References

Limitations Tables 1 and 2

Figures 1, 2, 3, and 4 Attachment A, B, and C

cc: Ms. Angela Maidment, CRT

David M. Seaver, L.G. Senior Geologist



REFERENCES

- EMR. 1999. *Remedial Investigation/Feasibility Study*, Provisioners Express Auburn Facility, 2102 West Valley Highway, Auburn, Washington. Environmental Management Resources, Inc. March.
- EPI. 2013a. *Underground Storage Tank Site Assessment Report*, Estes Express Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. January 4.
- EPI. 2013b. *Phase II Environmental Site Assessment Report*, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. December 9.
- EPI. 2017a. September and December 2016 Groundwater Sampling Report Twenty and Twenty-First Rounds, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. February 24.
- EPI. 2017b. September 2017 Groundwater Sampling Report Twenty-Fourth Round, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. October 3.
- EPI. 2018. December 2017 January 2018 Groundwater Sampling Report Twenty-Fifth Round, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. February 21.
- USEPA. 1996. Low-Flow Groundwater Monitoring Procedures, USEPA/540/S-95/504, United States Environmental Protection Agency. April.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The purpose of a geologic/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Geologic/hydrogeologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Table 1
Groundwater Elevation Summary

Well Number/	Date of	Dissolved	DTW	SWL	Change in SWL
TOC Elevation	Measurement	Oxygen (mg/L)	(feet)	(feet)	(feet)
MW-1 60.77	08/12/11		6.12	54.65	
60.77	11/11/11		5.42	55.35	0.70
	02/10/12		4.76	56.01	0.66
	05/17/12		5.35	55.42	-0.59
	08/28/12		6.28	54.49	-0.93
	11/15/12 02/14/13		4.99 5.22	55.78 55.55	1.29 -0.23
	05/16/13		5.42	55.35	-0.20
	08/14/13	0.21	6.17	54.60	-0.75
	11/25/13	0.29	5.06	55.71	1.11
	02/20/14 05/15/14	0.25 0.41	3.62 4.76	57.15 56.01	1.44 -1.14
	08/14/14	7.69	7.32	53.45	-2.56
	11/24/14	0.67	5.22	55.55	2.10
	03/31/15 06/29/15	0.45	4.99 6.23	55.78	0.23
	06/29/15	0.15 0.40	6.23	54.54 54.40	-1.24 -0.14
	03/03/16	10.71	2.18	58.59	4.19
	06/21/16	4.82	5.82	54.95	-3.64
	09/16/16 12/20/16	0.16	5.99	54.78 55.85	-0.17
	03/24/17	7.69 1.99	4.92 3.33	55.85 57.44	1.07 1.59
	06/16/17	0.93	4.25	56.52	-0.92
	09/05/17	0.49	6.17	54.60	-1.92
	12/20/17	11.2 5.90	4.45 5.50	56.32	1.72
	05/17/18 08/23/18	3.90	5.50 6.54	55.27 54.23	-1.05 -1.04
	11/15/18	7.77	5.40	55.37	1.14
MW-2					
60.85	08/12/11		5.51	55.34	
	11/11/11 02/10/12		5.13 4.94	55.72 55.91	0.38 0.19
	05/17/12		5.42	55.43	-0.48
	08/28/12		6.40	54.45	-0.98
	11/15/12		5.12	55.73	1.28
	02/14/13 05/16/13		5.32 5.48	55.53 55.37	-0.20 -0.16
	08/14/13	0.58	6.33	54.52	-0.85
	11/25/13	0.27	5.14	55.71	1.19
	02/20/14	3.08	2.23	58.62	2.91
	05/15/14 08/14/14	0.12 0.36	4.86 4.93	55.99 55.92	-2.63 -0.07
	11/24/14	0.14	3.70	57.15	1.23
	03/31/15	2.12	5.02	55.83	-1.32
	06/29/15 09/28/15	0.28 0.84	6.36 6.50	54.49 54.35	-1.34 -0.14
	03/03/16	1.34	2.64	58.21	3.86
	06/21/16	0.74	5.95	54.90	-3.31
	09/16/16	0.15	6.13	54.72	-0.18
	12/20/16 03/24/17	0.87	4.71 3.09	56.14 57.76	1.42 1.62
	06/16/17	0.51	4.75	56.10	-1.66
	09/05/17	0.55	6.32	54.53	-1.57
	12/20/17 05/17/18	4.41	4.21 5.60	56.64 55.25	2.11 -1.39
	08/23/18	0.56	5.60 6.68	55.25 54.17	-1.39 -1.08
	11/15/18		5.44	55.41	1.24

Table 1
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-3					
60.80	08/12/11		5.54	55.26	
	11/11/11		8.90	51.90	-3.36
	02/10/12		5.05	55.75	3.85
	05/17/12		5.60	55.20	-0.55
	08/28/12		6.40	54.40	-0.80
	11/15/12		5.25	55.55	1.15
	02/14/13		5.38	55.42	-0.13
	05/16/13		5.56	55.24	-0.18
	08/14/18	0.37	6.31	54.49	-0.75
	11/25/13	0.41	5.22	55.58	1.09
	02/20/14	0.26	4.34	56.46	0.88
	05/15/14	0.77	5.03	55.77	-0.69
	08/14/14	0.29	6.28	54.52	-1.25
	11/24/14	0.05	5.21	55.59	1.07
	03/31/15	1.24	5.15	55.65	0.06
	06/29/15	0.25	6.37	54.43	-1.22
	09/28/15	0.25	6.51	54.29	-0.14
	03/03/16	1.48	4.55	56.25	1.96
	06/21/16	0.90	5.93	54.87	-1.38
	09/16/16	0.11	6.09	54.71	-0.16
	12/20/16	1.94	5.38	55.42	0.71
	03/24/17		4.57	56.23	0.81
	06/16/17	0.29	5.23	55.57	-0.66
	09/05/17	0.21	6.30	54.50	-1.07
	12/20/17	0.78	4.91	55.89	1.39
	05/17/18	0.71	5.63	55.17	-0.72
	08/23/18		6.63	54.17	-1.00
	11/15/18	1.91	5.48	55.32	1.15
MW-4					
60.93	08/12/11		6.37	54.56	
	11/11/11		5.65	55.28	0.72
	02/10/12		5.20	55.73	0.45
	05/17/12		5.63	55.30	-0.43
	08/28/12		6.50	54.43	-0.87
	11/15/12		5.36	55.57	1.14
	02/14/13		5.50	55.43	-0.14
	05/16/13		5.67	55.26	-0.17
	08/14/13	0.18	6.42	54.51	-0.75
	11/25/13		5.31	55.62	1.11
	02/20/14	0.37	4.45	56.48	0.86
	05/15/14	0.45	5.14	55.79	-0.69
	08/14/14	0.27	6.33	54.60 55.66	-1.19 1.06
	11/24/14	0.04	5.27 5.27	55.66 55.66	1.06
	03/31/15	0.98	5.27	55.66	0.00
	06/29/15	0.15	6.45	54.48	-1.18
	09/28/15 03/03/16	0.27 4.79	6.62 3.20	54.31 57.73	-0.17 3.42
	06/21/16	0.49	6.11	54.82	-2.91
	09/16/16	0.49	6.40	54.82 54.53	-2.91 -0.29
	12/20/16	0.64	6.32	54.55 54.61	0.08
	03/24/17	0.73	4.69	56.24	1.63
	06/16/17	0.23	5.36	55.57	-0.67
	09/05/17	0.24	6.39	54.54	-1.03
	12/20/17	0.38	5.00	55.93	1.39
	01/02/18	1.52	5.00	55.93	0.00
	05/17/18	0.57	5.74	55.19	-0.74
	08/23/18		6.73	54.20	-0.74
	11/15/18		5.55	55.38	1.18
ll .	11/13/10	-	5.55	55.50	1.10

Table 1
Groundwater Elevation Summary

		Dissolved			
Well Number/	Date of	Oxygen	DTW	SWL	Change in SWL
TOC Elevation	Measurement	(mg/L)	(feet)	(feet)	(feet)
MW-5					
60.90	08/14/13	0.21	6.31	54.59	
	11/25/13		5.24	55.66	1.07
	02/20/14		4.38	56.52	0.86
	05/15/14	0.29	5.06	55.84	-0.68
	08/14/14 11/24/14	0.08	6.31 5.24	54.59 55.66	-1.25 1.07
	03/31/15	1.09	5.24	55.73	0.07
	06/29/15	0.28	6.35	54.55	-1.18
	09/28/15	0.52	6.51	54.39	-0.16
	03/03/16	2.03	4.59	56.31	1.92
	06/21/16	0.40	5.96	54.94	-1.37
	09/16/16	0.10	6.11	54.79	-0.15
	12/20/16	1.09	5.16	55.74	0.95
	03/24/17		4.61	56.29	0.55
	06/16/17	0.30	5.27	55.63	-0.66
	09/05/17	0.51	6.27	54.63	-1.00
	12/20/17	0.93	4.92	55.98	1.35
	01/02/18	1.20	4.92	55.98	0.00
	05/17/18	0.95	5.65	55.25	-0.73
	08/23/18		6.58 5.44	54.32 55.46	-0.93 1.14
	11/15/18		5.44	55.46	1.14
MW-6					
60.76	08/14/13	0.22	6.21	54.55	
	11/25/13		5.13	55.63	1.08
	02/20/14	0.29	4.27	56.49	0.86
	05/15/14 08/14/14	0.33 0.20	4.97 6.13	55.79 54.63	-0.70 -1.16
	11/24/14	0.20	5.08	55.68	1.05
	03/31/15	0.09	5.10	55.66	-0.02
	06/29/15	0.17	6.27	54.49	-1.17
	09/28/15	0.37	6.42	54.34	-0.15
	03/03/16	0.67	4.53	56.23	1.89
	06/21/16	0.52	5.91	54.85	-1.38
	09/16/16	0.33	6.01	54.75	-0.10
	12/20/16	1.30	5.14	55.62	0.87
	03/24/17	0.18	4.52	56.24	0.62
	06/16/17	0.23	5.18	55.58	-0.66
	09/05/17	0.61	6.23	54.53	-1.05
	12/20/17	0.76	4.80	55.96	1.43
	01/02/18	0.86	4.80	55.96 55.10	0.00
	05/17/18 08/23/18	0.35 0.48	5.57	55.19 54.25	-0.77
	11/15/18	1.22	6.51 5.39	54.25 55.37	-0.94 1.12
	11/13/10	1.22	3.37	33.31	1.12
MW-7	00/17/17	0.57	F 15	54.70	
59.87	09/16/16 12/20/16	0.57 0.72	5.15 5.27	54.72 54.60	0.12
	03/24/17	0.72	3.68	54.60 56.19	-0.12 1.59
	06/16/17	0.23	4.33	55.54	-0.65
	09/05/17	0.31	5.43	54.44	-1.10
	12/20/17	0.21	3.95	55.92	1.48
	05/17/18	0.53	4.71	55.16	-0.76
	08/23/18		5.67	54.20	-0.96
	11/15/18		4.49	55.38	1.18
MW-8					
59.70	09/16/16	0.52	5.09	54.61	
	12/20/16	1.29	4.62	55.08	0.47
	03/24/17	0.33	3.67	56.03	0.95

Table 1
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-8	06/16/17	0.28	4.21	55.49	-0.54
Continued	09/05/17	0.34	5.31	54.39	-1.10
	12/20/17	1.39	3.78	55.92	1.53
	05/17/18	0.62	4.66	55.04	-0.88
	06/05/18	0.67	5.90	53.80	-1.24
	08/23/18	0.93	5.56	54.14	0.34
	11/15/18	2.03	4.44	55.26	1.12
MW-9					
60.91	09/05/17	0.38	6.33	54.58	
	12/20/17	4.73	4.73	56.18	1.60
	05/17/18	0.67	5.64	55.27	-0.91
	08/23/18	1.03	6.69	54.22	-1.05
	11/15/18	0.84	5.50	55.41	1.19

Notes:

TOC - Top of casing

SWL - Static water level

mg/L - Milligrams per liter

NC - Not collected

DTW - Depth to water

-- - Not applicable/Not measured

Wells surveyed to the North American Vertical Datum of 1988 (NAVD 88) on September 19, 2017.

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx		cology Metho NWTPH-Dx	od	V	SEPA Met	ganic Compounthod 8021B/826	
			(µg/L)		$(\mu g/L)$				(μg/L)	
Well ID	Sample ID	Collection Date	ТРН-д	TPH-d	ТРН-о	Total TPH (C ₁₂ - C ₃₆₎	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	NA	8/12/2011	<100	<250	< 500	< 500	<1	<1	<1	<3
	NA	11/11/2011	<100	1,500	300	1,800	<1	<1	<1	<3
	NA	2/10/2012	<100	690	<250	690	<1	<1	<1	<3
	NA	5/17/2012	<100	1,100	480	1,580	<1	<1	<1	<3
	NA	8/28/2012	<100	1,200	820	2,020	<1	<1	<1	<3
	NA	11/15/2012	<100	2,700	1,200	3,900	<1	<1	<1	<3
	NA	2/14/2013	<100	1,600	510	2,110	<1	<1	<1	<3
	NA	5/16/2013	<100	1,500	340	1,840	<1	<1	<1	<3
	NA	8/14/2013	<100	1,100	290	1,390	<1	<1	<1	<3
	NA	11/25/2013		1,400	400	1,800				
	NA	2/20/2014		700	280	980				
	NA	5/15/2014		940	<250	940				
	NA	8/14/2014		< 50	<250	<250				
	NA	11/24/2014		220	<250	220				
	NA	3/31/2015		340	<250	340				
	NA	6/29/2015		240	<250	240				
	NA	9/28/2015		700	290	990				
	NA	3/3/2016		220	<250	220				
	NA	6/21/2016		160	<250	160				
	NA	9/16/2016		580	420	1,000				
	NA	12/20/2016		190	<250	190				
	NA	3/24/2017		53	<250	53				
	NA	6/19/2017		310	560	870				
	NA	9/5/2017		340	340	680				
	NA	12/20/2017		150	340	490				
	EW-051718-1	5/17/2018		<400	<400	<400				
	EW-082318-3	8/23/2018		<380	<380	<380				
2000	EW-111518-6	11/15/2018		<400	<400	<400				
MW-2	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	500	<250	500	<1	<1	<1	<3
	NA	2/10/2012	<100	<50	<250	<250	<1	<1	<1	<3
	NA	5/17/2012	<100	<50	<250	<250	<1	<1	<1	<3
	NA	8/28/2012	<100	470	730	1,200	<1	<1	<1	<3
	NA	11/15/2012	<100	140	<260	140	<1	<1	<1	<3
	NA	2/14/2013	<100	94	260	354	<1	<1	<1	<3
	NA	5/16/2013	<100	77	<250	77	<1	<1	<1	<3
	NA	8/14/2013	<100	280	<250	280	<1	<1	<1	<3
	NA	11/25/2013		53	<250	53				
	NA	2/20/2014		<50	<250	<250				
	NA NA	5/15/2014		<50	<250	<250				
	NA	8/14/2014		100	<250	100				
	NA	11/24/2014		<50	<250	<250				
	NA NA	3/31/2015		57	<250	57				
	NA NA	6/29/2015		97 150	<250	97				
	NA NA	9/28/2015		150	<250	150				
	NA	3/3/2016		<50	<250	<250				
	NA NA	6/21/2016		86	<250	86				
	NA NA	9/16/2016		95 -50	<250	95				
	NA	12/20/2016		<50	<250	<250				
	NA	6/19/2017		61	<250	61				
	NA	9/5/2017		100	<250	100				
	NA EW 051719 4	12/20/2017		<50	<250	<250				
	EW-051718-4	5/17/2018		<410	<410	<410				

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx		cology Metho	od	V	SEPA Met	ganic Compounthod 8021B/826	
Well ID	Sample ID	Collection Date	(μg/L) TPH-g	TPH-d	(μg/L) TPH-o	Total TPH (C ₁₂ - C ₃₆₎	Benzene		(µg/L) Ethylbenzene	Total Xylenes
MW-2	NS	8/23/2018								
Continued	NS	11/15/2018								
MW-3	NA	8/12/2011	<100	<250	< 500	< 500	<1	<1	<1	<3
	NA	11/11/2011	<100	65	<250	65	<1	<1	<1	<3
	NA	2/10/2012	<100	100	<250	100	<1	<1	<1	<3
	NA	5/17/2012	<100	53	<250	53	<1	<1	<1	<3
	NA	8/28/2012	<100	130	<250	130	<1	<1	<1	<3
	NA	11/15/2012	<100	120	<280	120	<1	<1	<1	<3
	NA	2/14/2013	<100	150	<250	150	<1	<1	<1	<3
	NA	5/16/2013	<100	200	<250	200	<1	<1	<1	<3
	NA	8/14/2013	<100	140	<250	140	<1	<1	<1	<3
	NA	11/25/2013		170	<250	170				
	NA	2/20/2014		160	<250	160				
	NA	5/15/2014		120	<250	120				
	NA	8/14/2014		140	<250	140				
	NA	11/24/2014		130	<250	130				
	NA	3/31/2015		220	<250	220				
	NA	6/29/2015		130	<250	130				
	NA	9/28/2015		110	<250	110				
	NA	3/3/2016		92	<250	92				
	NA	6/21/2016		85	<250	85				
	NA	9/16/2016		100	<250	100				
	NA	12/20/2016		99	<250	99				
	NA NA	6/19/2017 9/5/2017		310	<250	310				
	NA NA	12/20/2017		210	<250	210 150				
	NA EW-051718-9	5/17/2018		150 520	<250 <400	520				
	NS	8/23/2018		520	<400	520				
	NS EW-111518-1	11/15/2018		<390	<390	<390				
MW-4	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	72	<250	72	<1	<1	<1	<3
	NA	2/10/2012	<100	150	<250	150	<1	<1	<1	<3
	NA	5/17/2012	<100	160	<250	160	<1	<1	<1	<3
	NA	8/28/2012	<100	200	<250	200	<1	<1	<1	<3
	NA	11/15/2012	<100	220	<250	220	<1	<1	<1	<3
	NA NA	2/14/2013	<100	220	<250	220	<1	<1	<1	<3
	NA NA	5/16/2013	<100	210	<250	210	<1	<1	<1	<3
	NA NA	8/14/2013 2/20/2014	<100	200 140	<250 <250	200 140	<1 	<1	<1	<3
	NA NA	5/15/2014		140	<250 <250					
	NA NA	8/14/2014		290	<250 <250	140 290				
	NA NA	11/24/2014		290	<250 <250	290				
	NA NA	3/31/2015		320	<250	320				
	NA NA	6/29/2015		240	<250	240				
	NA NA	9/28/2015		220	<250	220				
	NA NA	3/3/2016		130	<250	130				
	NA	6/21/2016		63	<250	63				
	NA	9/29/2016		68	<250	68				
	NA	12/20/2016		78	<250	78				
	NA	3/24/2017		<50	<250	<250				
	NA	6/19/2017		110	<250	110				
	NA	9/5/2017		150	<250	150				
	NA	1/2/2018		<50	<250	<250				

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx	E	cology Metho			SEPA Met	ganic Compounthod 8021B/826	
			(µg/L)		(µg/L)	·		ı	(μg/L)	
Well ID	Sample ID	Collection Date	ТРН-д	TPH-d	ТРН-о	Total TPH (C ₁₂ - C ₃₆₎	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-4	EW-051718-8	5/17/2018		<400	<400	<400				
Continued	NS	8/23/2018								
	NS	11/15/2018								-
MW-5	NA	6/5/2013	<100	160	<250	160	<1	<1	<1	<3
	NA	8/14/2013	<100	56	<250	56	<1	<1	<1	<3
	NA	11/24/2014	<100	< 50	<250	<250				
	NA	3/31/2015		52	<250	52				
	NA	6/29/2015		< 50	<250	<250				
	NA	9/28/2015		< 50	<250	<250				
	NA	3/3/2016		< 50	<250	<250				
	NA	6/21/2016		< 50	<250	<250				
	NA	9/16/2016		< 50	<250	<250				
	NA	12/20/2016		< 50	<250	<250				
	NA	6/19/2017		55	<250	55				
	NA	9/5/2017		68	<250	68				
	NA	1/2/2018		< 50	<250	<250				
	EW-051718-5	5/17/2018		<380	<380	<380				
	NS	8/23/2018								
	NS	11/15/2018								
MW-6	NA	6/5/2013	<100	680	<250	680	<1	<1	<1	<3
	NA	8/14/2013	<100	790	<250	790	<1	<1	<1	<3
	NA	2/20/2014		740	<250	740				
	NA	5/15/2014		950	<250	950				
	NA	8/14/2014		1,200	<250	1,200				
	NA	11/24/2014		680	<250	680				
	NA	3/31/2015		750	<250	750				
	NA	6/29/2015		750	<250	750				
	NA	9/28/2015		610	<250	610				
	NA	3/3/2016		1,100	390	1,490				
	NA	6/21/2016		650	<250	650				
	NA	9/16/2016		340	<250	340				
	NA	12/20/2016		640	<250	640				
	NA	3/24/2017		580	<250	580				
	NA	6/19/2017		970	280	1,250				
	NA	9/5/2017		320	<250	320				
	NA	1/2/2018		240	<250	240				
	EW-051718-6	5/17/2018		880	<400	880				
	EW-082318-4	8/23/2018		<400	<400	<400				
	EW-082318-3	11/15/2018		<380	<380	<380				
MW-7	NA	9/16/2016		140	<250	140				
	NA	12/20/2016		78	<250	78				
	NA	3/24/2017		< 50	<250	<250				
	NA	6/19/2017		100	<250	100				
	NA	9/5/2017		59	<250	59				
	NA	12/20/2017		99	<250	99				
	EW-051718-7	5/17/2018		<380	<380	<380				
	NS	8/23/2018								
	NS	11/15/2018								
MW-8	NA	10/3/2016		290	<250	290				
	NA	12/20/2016		140	<250	140				
	NA	3/24/2017		< 50	<250	<250				
	NA	6/26/2017		180	<250	180				

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)	PH-Gx NWTPH-Dx (μg/L)				Volatile Organic Compounds USEPA Method 8021B/8260B (µg/L)			
Well ID	Sample ID	Collection Date	ТРН-д	TPH-d	ТРН-о	Total TPH (C ₁₂ - C ₃₆₎	Benzene	Toluene	Ethylbenzene	Total Xylenes	
MW-8	NA	9/5/2017		160	<250	160					
Continued	NA	12/20/2017		140	<250	140					
	EW-051718-10	5/17/2018		1,900	2,800	4,700					
	EW-060518-1	6/5/2018		850	770	1,620					
	EW-082318-5	8/23/2018		450	<380	450	<1.0	<1.0	<1.0	<3.0	
	EW-111518-2	11/15/2018		<400	<400	<400					
MW-9	NA	9/5/2017		4,300	<250	4,300					
	NA	12/20/2017		360	<250	360					
	EW-051718-2	5/17/2018		450	< 400	450					
duplicate	EW-051718-3	5/17/2018		470	< 390	470					
	EW-082318-1	8/23/2018		790	<400	790					
duplicate	EW-0823718-2	8/23/2018		700	<400	700					
	EW-111518-4	11/15/2018		<390	< 390	<390					
duplicate	EW-111518-5	11/15/2018		<400	<400	<400					
MTCA M	Iethod A Cleanu Groundwater ^a		800/1,000 ^b	500	500	500	5 1,000 700		1,000		

 $\mu g/L$ - micrograms per liter

<1 - Not reported at, or above the indicated laboratory method reporting limit

-- - Not Analyzed

NS - Not Sampled

NA - Not Applicable

Notes:

MTCA - Model Toxics Control Act

USEPA - United States Environmental Protection Agency

CCL - Contaminant Cleanup Level

Bold - Value exceeds MTCA Method A cleanup level

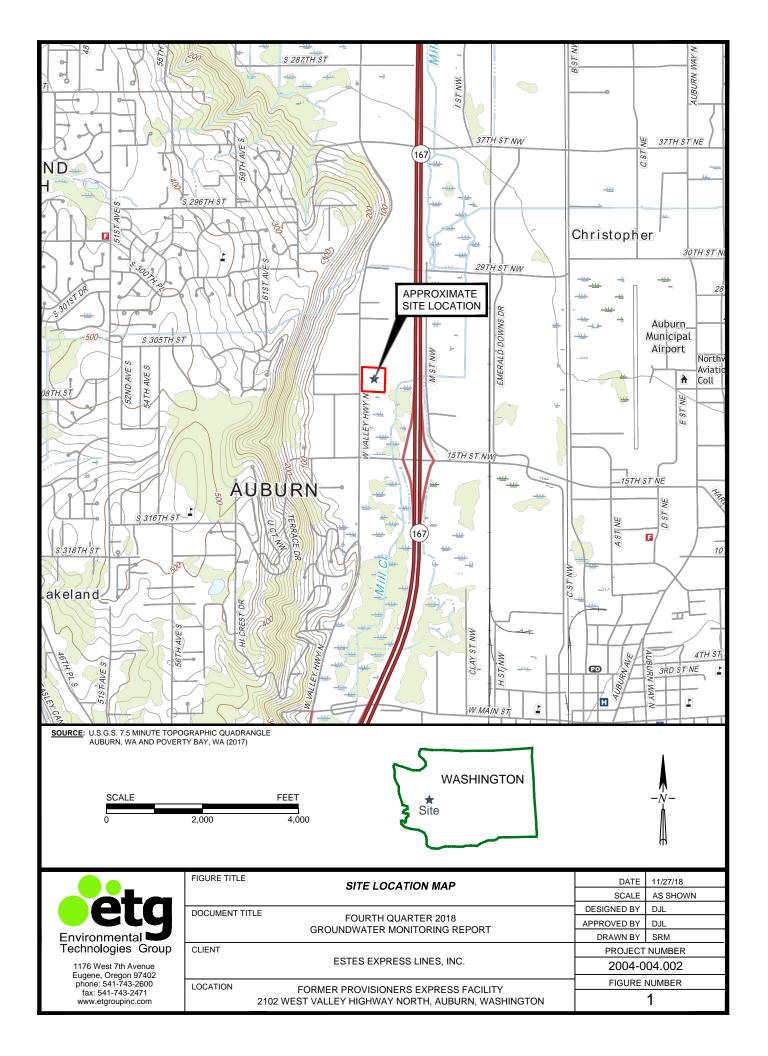
TPH-d - diesel range total petroleum hydrocarbons

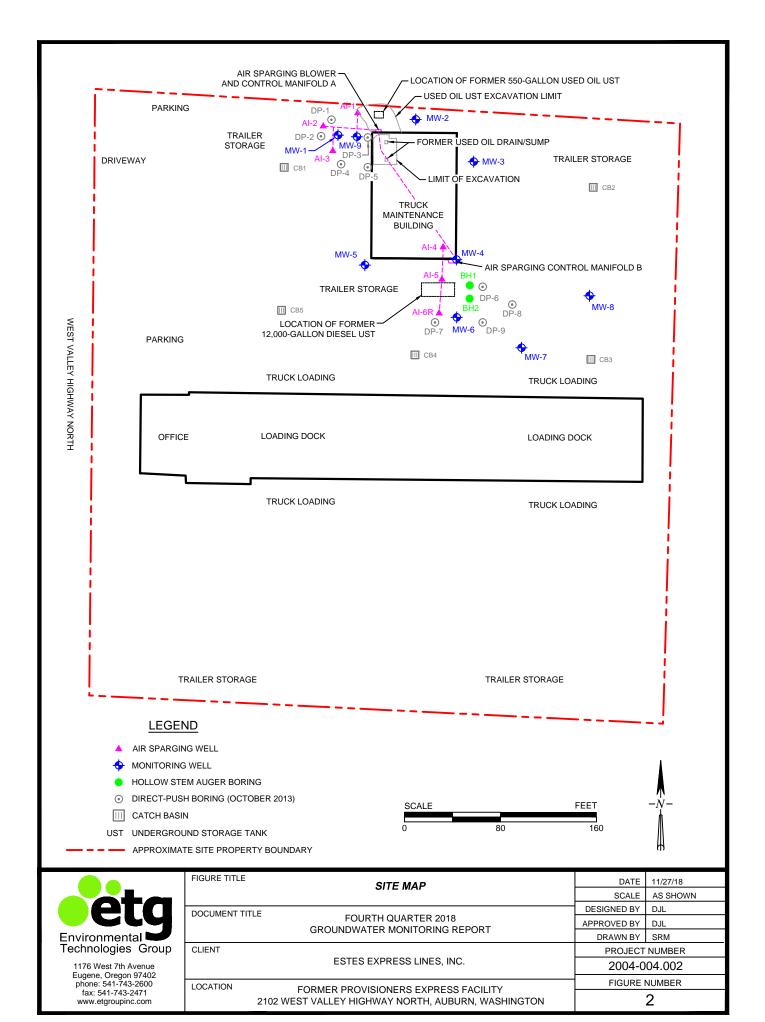
TPH-g - gasoline range total petroleum hydrocarbons TPH-o - total petroleum hydrocarbons in the oil range

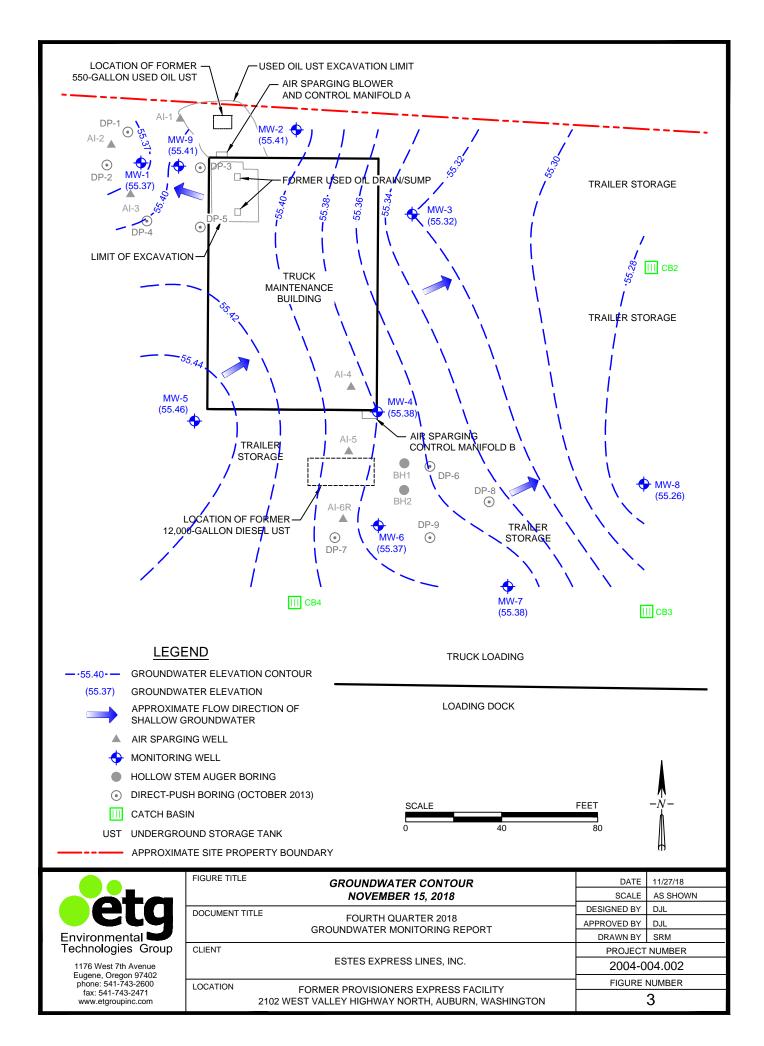
Washington Department of Ecology Model Toxics Control Act Cleanup Regulation Chapter 173-340, Table 720-1.

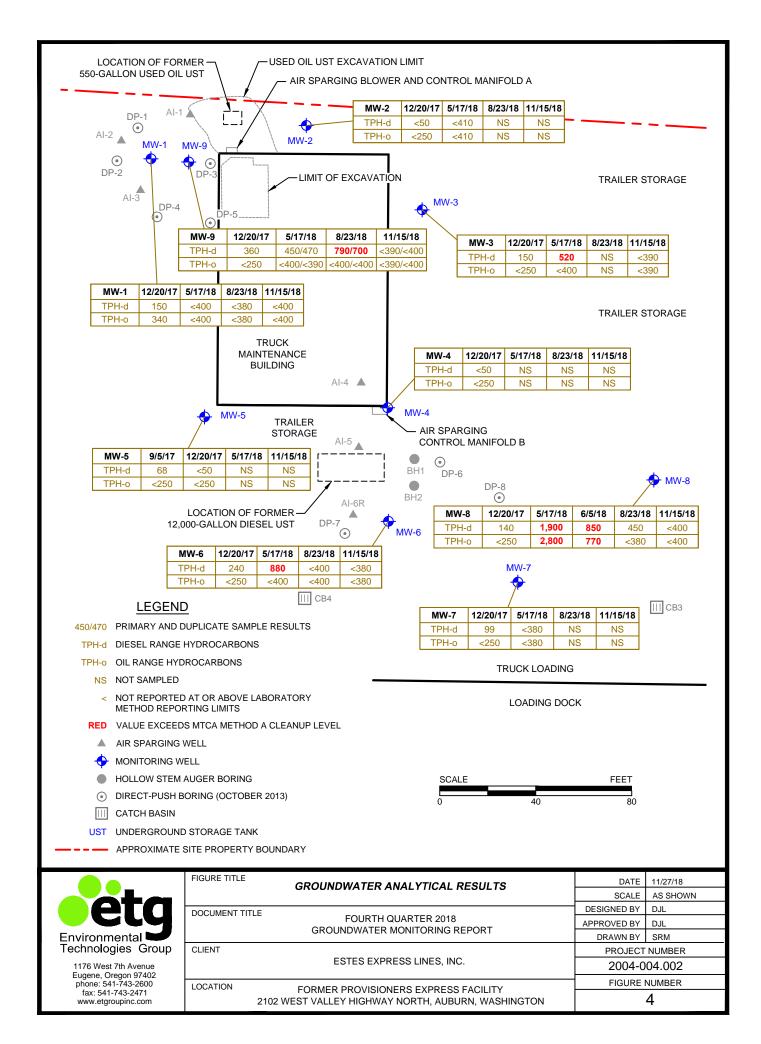
^a MTCA Method A Groundwater Cleanup Levels for Unrestricted Land Uses are referenced from the February 12, 2001.

 $[^]b$ 800 µg/L if benzene has been detected in groundwater; 1,000 µg/L if benzene has not been detected in groundwater.









ATTACHMENT A FIELD SAMPLING DATA SHEETS

PROJEC.	I NAME: _ <u>I</u>	ESTES West			WELL ID:/	nw-	3	
SITE AD	DRESS: Aubi	ırn, WA			ABEL CODE:			10 /
				1	DUPLIC			18-
			Ų		BOTER)	
Wind From	N NE	E SE	S SW	WN	W Light	t [Medium	n Heavy
Weather	Sunny	Cloudy	Rain		? Temperar	ture:	ºF	
WELL D	ATA							
Date	Time	Casing	Diameter	DT-Product	DT-Water	r	Product '	Thickness
11/15/1	8		2	-	5.48			- Inckness
,				10.	770			
PUMP/IN	TAKE DEP	IH (ft btoc):						
WATED	OHALITYD	A 777 A						
Time	QUALITY D Liters	PH	T	D.O.	C			
0800	1	6.20	Temp	DO	Spec. Cond.	Red	Chicago to Sall Port Person	Turbidity
0802	1.8	6.20	15.0	1.85	654	-49	4 4	CLEAR
0804	2.6	6.20	15.0	1.92	649	-4		""
0806	3,2	6.20	15.0	1.91	642	-49		11
	2, -		17.0	7.97	671	-49	1,7	"
Sample Da	WATER SA ate: 11/15/ me: 08/	1,8	'A					
Bottle Type	\[\]	Amount &	v Volume	Preservative	Filter			
VOA Glass			40 ml	HC1	No			
Amber Glass	/	2	250 ml	HC1	No			
Poly			250 ml	X		SWEET SALVES		
Total Bottles		2						
our Boures	Į							
Notes:	Pumpe	- 0.4	LPM T	NO DAGE	DOWN			
							-	
*,,44							1800 - 20095	
		2	1			14	/	

PROJEC'	T NAME:]	ESTES West			WELL ID:_	MW-	- 8	
SITE AD	DRESS: Aub	urn, WA			LABEL COI			10 7
	182							18-2
							<u> </u>	
Wind From	N NE	E SE	S SW	WN	W L	ight	Mediur	n Heavy
Weather	Sunny	Cloudy	Rain		? Temp	erature:	0	F°C
								
WELL D			D: 1					E.
Date 11/15/	Time		Diameter	DT-Produc		,	Product	Thickness
11/15/	18		2		4.49	1		
PUMP/IN	NTAKE DEP	TH (ft btoc):						
	E RAN CENTER	(0.00).						
Made the property of the property of the party of the par	QUALITY I	DATA						
Time	Liters	PH	Temp	DO	Spec. Con	d. Re	edox	Turbidity
0825	0.5	6.36	16.3	1.97	7/1	- 4	15.9	CUEAR
0827	1.100	6.36	16.4	2.01	710		16.7	
0829	2.3	6.37	16.4	2.02	710	A Miles of the second	47.7	
00)	4.3	6.36	16.4	2.03	710		13.0	
		***	10.00					
CDOUNT		MOVERNIE						
	DWATER SA	/	T A					
Sample D	ate: 11/15	118		Aryla -	•			
Sample T	ime: <u>083</u>	5						
Bottle Type	e \[Amount &	& Volume	Preservative	Filter			
VOA Glass			40 ml	HC1	No			
Amber Glass	s	2	250 ml	HC1	No			
Poly			250 ml					
Total Bottles	<u> </u>	7						
	**							
Notes:	Pump Ra	TE 0,3	LPM					
	2					*		
		400				A		
							,	***
Sampled F	By: Steve McC	`rav		Sig	nature:	16	My	
P.204 L	J. 235.5 1710C			big		Jun	//	

PROJECT	NAME:I	ESTES West			WELL ID:	16-6	
	ORESS: Aubi						10 7
le contraction to the contraction of the contractio		overità AATF			ABEL CODE	EW-11 / EATE ID:	> 18- 5
					DOLLIC	AIEID:	
Wind From	N NE	E SE	S SW	W N'	W Light	t Med	ium Heavy
Weather	Sunny	Cloudy	Rain		? Tempera	ture:	°F°C
WELL DA	ATA		Life				
Date	Time	Casing	Diameter	DT-Product	DT-Wate	r Produ	ct Thickness
11/15/18			_		5.39	1 11000	- Ct Thickness
' / PHMP/IN'	TAKE DED	TH (A b4)					
t OMITAIN.	TAKE DEP	1H (11 bloc):					
WATER (QUALITY D	ATA					
Гіте	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity
0848		6.38	17.6	1.22	488	-40.6	CLEAR
1850	2	6.32	17.7	1.21	486	-40.4	11
0852	3	6.32	17.8	1.21	486	-41.0	11
0854	4	6.31	17.9	1.22	485	-41.4	11
			-				1
Sample Da	WATER SA te: 11/15, ne: 0900	118	`A			7 -	
Bottle Type	1	Amount &	& Volume	Preservative	Filter		
OA Glass		, u	40 ml	HC1	No		
Amber Glass	V	2	250 ml	HC1	No		~
oly	-		250 ml				
otal Bottles		2		in .			
Notes:	o DNAW	Down.	e 0.5	LPM	9		
				1			
Sampled By	: Steve McC	ray		Sign	nature:	HORY	9/

PROJECT	NAME:	ESTES West			WELL ID:	MW-	9	
SITE ADI	ORESS: Aub	urn. WA			LABEL CODE		50.37%	ef
	(i)			1				- 1 111518-5
\		- 10 TO			DOTER		· PW-	17376~>
Wind From	N NE	E SE	S SW	WN	W Ligh	nt	Medium	Heavy
Weather	Sunny	Cloudy	Rain		? Tempera	ature:	°F	°C
		A STATE OF THE STA						
WELL DA			6 4					
Date	Time		Diameter	DT-Produc	t DT-Wate	er P	roduct Th	ickness
11/15/18	3		2		5,50)		
DIIMD/IN	TABE DED	Triti (O.1)						
I UNIF/IN	TAKE DEP	TH (ft btoc):	· · · · · · · · · · · · · · · · · · ·					
WATER	QUALITY I	DATA						
Time	Liters	PH	Temp	DO	Spec. Cond.	Redo	ov T	urbidity
0926	0.4	6.14	15.0	0.86	402	140		How TINT
0928	0.6	6.14	15,0	0.86	402	140		11
0930	0.8	6.13	15.0	0.84	402	140		CLEAR
		77 M						1
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le le		W. W						
					 	L		
GROUND	WATER SA	MPLE DAT	ΓΑ					
Sample Da	ite: 11/15/	18						
	, ,		CHATE 7		7935			
						-		
VOA Glass		Amount			Filter			
Amber Glass	- /	2×2	40 ml	HCl	No	*		
Poly	V	a x d	250 ml 250 ml	HCl	No			
•			230 III					
							-	
Total Bottles		4	L					
V			, /	*				
Notes:	mp NA.	TR 100	M/m.	~				
	1							
						. /		4 10 10
Sampled By	y: Steve McC	Cray		Sign	nature:	1501	12/4	
				C			111	4

PROJECT	Γ NAME:I	ESTES West			WELL ID:/	nw-1			
SITE AD	DRESS: Aub	urn WA							
	LABEL CODE: EW-11 15 18- 6 DUPLICATE ID:								
					DOLLIC	AILID			
Wind From	N NE	E SE	S SW	WN	W Ligh	t I	Medium	Heavy	
Weather									
WELL D									
Date	Time	Casing	Diameter	DT-Produc	t DT-Wate	r Pro	oduct Thi	ickness	
11/15/	18	8	2		5.40				
DITTE						3			
PUMP/IN	TAKE DEP	TH (ft btoc):							
WATED		NA TO A							
Time	QUALITY D								
0950		PH	Temp	DO	Spec. Cond.	Redox		urbidity	
0952	0.5	6.39	15.1	7.79	198	/31.		ise	
0954	0.7	6.89	15.1	7,80	197	131,	The second secon	11	
0///	I.T.	0.09	13:1	7.77	193	131.	99	1,	
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	****		100						
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					- N			- compression	
				3					
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GROUND	WATER SA	MPLE DAT	A						
Sample Da	ate: 11/15	/18							
	me: /000								
Bottle Type	. \	Amount &	& Volume	Preservative	Filter				
VOA Glass			40 ml	HCl	No				
Amber Glass	V	2	250 ml	HCl	No				
Poly		.v	250 ml						
- first a constant of the cons									
			married House of the Salary Sa						
Total Bottles	1944	2							
M.4									
Notes: p	IMP RATE	_ 100 MI	-/MIN						
		7.00 - Andrews							
		**		1		1	************		
Sampled B	y: Steve McC	ray		Sign	nature:	the 1.	14		

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ATTACHMENT B LABORATORY ANALYTICAL REPORTS



November 21, 2018

Dan Landry Environmental Technologies Group, Inc 1176 West 7th Avenue Eugene, OR 97402

RE: Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Dear Dan Landry:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com (206)957-2426 Project Manager

ENNI (TROSS

Enclosures

cc: Steve McCray, ETG

Dave Seaver, Environmental Technologies Group, Inc.







CERTIFICATIONS

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064

Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382 Wisconsin Certification #: 999407970

Virginia Certification #: 460163

Wyoming UST Certification #: via A2LA 2926.01





SAMPLE SUMMARY

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10455808001	EW-111518-1	Water	11/15/18 08:10	11/16/18 11:30
10455808002	EW-111518-2	Water	11/15/18 08:35	11/16/18 11:30
10455808003	EW-111518-3	Water	11/15/18 09:00	11/16/18 11:30
10455808004	EW-111518-4	Water	11/15/18 09:10	11/16/18 11:30
10455808005	EW-111518-5	Water	11/15/18 09:35	11/16/18 11:30
10455808006	EW-111518-6	Water	11/15/18 10:00	11/16/18 11:30



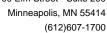


SAMPLE ANALYTE COUNT

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10455808001	EW-111518-1	NWTPH-Dx	EC2	4	PASI-M
10455808002	EW-111518-2	NWTPH-Dx	EC2	4	PASI-M
10455808003	EW-111518-3	NWTPH-Dx	EC2	4	PASI-M
10455808004	EW-111518-4	NWTPH-Dx	EC2	4	PASI-M
10455808005	EW-111518-5	NWTPH-Dx	EC2	4	PASI-M
10455808006	EW-111518-6	NWTPH-Dx	EC2	4	PASI-M





ANALYTICAL RESULTS

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Date: 11/21/2018 03:40 PM

Sample: EW-111518-1	Lab ID: 104	Lab ID: 10455808001 Collected: 11/15/18 08:10 Received: 11/16/18 11:30 Matrix: Water						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS LV	Analytical Meth	nod: NWTP	H-Dx Preparation Me	Dx Preparation Method: EPA Mod. 3510C				
Diesel Fuel Range	ND	mg/L	0.39	1	11/19/18 18:03	11/20/18 11:31	l 68334-30-5	
Motor Oil Range Surrogates	ND	mg/L	0.39	1	11/19/18 18:03	11/20/18 11:31	I	
o-Terphenyl (S)	81	%.	50-150	1	11/19/18 18:03	11/20/18 11:31	l 84-15-1	
n-Triacontane (S)	83	%.	50-150	1	11/19/18 18:03	11/20/18 11:31	l 638-68-6	
Sample: EW-111518-2	Lab ID: 104	55808002	Collected: 11/15/1	8 08:35	Received: 11	/16/18 11:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS LV	Analytical Meth	nod: NWTP	H-Dx Preparation Me	ethod: E	PA Mod. 3510C			
Diesel Fuel Range	ND	mg/L	0.40	1	11/19/18 18:03	11/20/18 11:42	2 68334-30-5	
Motor Oil Range Surrogates	ND	mg/L	0.40	1	11/19/18 18:03	11/20/18 11:42	2	
o-Terphenyl (S)	78	%.	50-150	1	11/19/18 18:03	11/20/18 11:42	2 84-15-1	
n-Triacontane (S)	80	%.	50-150	1	11/19/18 18:03	11/20/18 11:42	2 638-68-6	
Sample: EW-111518-3	Lab ID: 104	55808003	Collected: 11/15/1	8 09:00	Received: 11	/16/18 11:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS LV	Analytical Meth	nod: NWTP	H-Dx Preparation Me	ethod: E	PA Mod. 3510C			
Diesel Fuel Range	ND	mg/L	0.38	1	11/19/18 18:03	11/20/18 11:54	1 68334-30-5	
Motor Oil Range Surrogates	ND	mg/L	0.38	1	11/19/18 18:03	11/20/18 11:54	1	
o-Terphenyl (S)	80	%.	50-150	1	11/19/18 18:03	11/20/18 11:54	4 84-15-1	
n-Triacontane (S)	83	%.	50-150	1	11/19/18 18:03	11/20/18 11:54	1 638-68-6	
Sample: EW-111518-4	Lab ID: 104	55808004	Collected: 11/15/1	8 09:10	Received: 11	/16/18 11:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS LV	Analytical Meth	nod: NWTP	H-Dx Preparation Me	ethod: E	PA Mod. 3510C			
Diesel Fuel Range	ND	mg/L	0.39	1	11/19/18 18:03	11/20/18 12:05	5 68334-30-5	
Motor Oil Range Surrogates	ND	mg/L	0.39	1	11/19/18 18:03			
•	65	%.	50-150	1	11/19/18 18:03	11/20/18 12:05	5 84-15-1	
o-Terphenyl (S)	05	70.	00 100	•	11/10/10 10:00	11/20/10 12:00	0.10.	



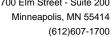
ANALYTICAL RESULTS

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Date: 11/21/2018 03:40 PM

Sample: EW-111518-5	Lab ID: 104	Lab ID: 10455808005		Collected: 11/15/18 09:35		/16/18 11:30 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS LV	Analytical Meth	od: NWTP	H-Dx Preparation Me	ethod: E	PA Mod. 3510C			
Diesel Fuel Range	ND	mg/L	0.40	1	11/19/18 18:03	11/20/18 12:16	68334-30-5	
Motor Oil Range Surrogates	ND	mg/L	0.40	1	11/19/18 18:03	11/20/18 12:16	j	
o-Terphenyl (S)	76	%.	50-150	1	11/19/18 18:03	11/20/18 12:16	84-15-1	
n-Triacontane (S)	80	%.	50-150	1	11/19/18 18:03	11/20/18 12:16	638-68-6	
Sample: EW-111518-6	Lab ID: 104	55808006	Collected: 11/15/1	8 10:00	Received: 11	/16/18 11:30 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Parameters NWTPH-Dx GCS LV			Report Limit H-Dx Preparation Me		· ·	Analyzed	CAS No.	Qua
					· ·			Qua
NWTPH-Dx GCS LV	Analytical Meth	nod: NWTP	H-Dx Preparation Me	ethod: E	PA Mod. 3510C	11/20/18 12:28	68334-30-5	Qua
NWTPH-Dx GCS LV Diesel Fuel Range Motor Oil Range	Analytical Meth	nod: NWTP mg/L	H-Dx Preparation Me	ethod: E	PA Mod. 3510C 11/19/18 18:03	11/20/18 12:28 11/20/18 12:28	68334-30-5	Qua





QUALITY CONTROL DATA

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

QC Batch: 576472 Analysis Method: NWTPH-Dx

QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV

Associated Lab Samples: 10455808001, 10455808002, 10455808003, 10455808004, 10455808005, 10455808006

METHOD BLANK: 3128264 Matrix: Water

Associated Lab Samples: 10455808001, 10455808002, 10455808003, 10455808004, 10455808005, 10455808006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range	 mg/L	ND	0.40	11/20/18 10:12	
Motor Oil Range	mg/L	ND	0.40	11/20/18 10:12	
n-Triacontane (S)	%.	85	50-150	11/20/18 10:12	
o-Terphenyl (S)	%.	84	50-150	11/20/18 10:12	

LABORATORY CONTROL SAMPLE & LCSD: 3128265 3128266										
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Diesel Fuel Range	mg/L	2	1.6	1.6	78	78	50-150	1	20	
Motor Oil Range	mg/L	2	1.6	1.7	81	83	50-150	2	20	
n-Triacontane (S)	%.				84	80	50-150			
o-Terphenyl (S)	%.				81	83	50-150			

SAMPLE DUPLICATE: 3128267

Date: 11/21/2018 03:40 PM

Parameter	Units	10455695001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/L	0.56	0.55		30	
Motor Oil Range	mg/L	ND	ND		30	
n-Triacontane (S)	%.	80	83	8		
o-Terphenyl (S)	%.	77	80	8		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Minneapolis, MN 55414 (612)607-1700

QUALIFIERS

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

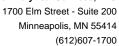
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 11/21/2018 03:40 PM

PASI-M Pace Analytical Services - Minneapolis





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2004-004.002 Estes West Trucki

Pace Project No.: 10455808

Date: 11/21/2018 03:40 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10455808001	EW-111518-1	EPA Mod. 3510C	576472	NWTPH-Dx	576634
10455808002	EW-111518-2	EPA Mod. 3510C	576472	NWTPH-Dx	576634
10455808003	EW-111518-3	EPA Mod. 3510C	576472	NWTPH-Dx	576634
10455808004	EW-111518-4	EPA Mod. 3510C	576472	NWTPH-Dx	576634
10455808005	EW-111518-5	EPA Mod. 3510C	576472	NWTPH-Dx	576634
10455808006	EW-111518-6	EPA Mod. 3510C	576472	NWTPH-Dx	576634

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Face Analytical "
www.pacelabs.com

Pace Project No./ Lab I.D. DRINKING WATER (N/A) Samples Intac SAMPLE CONDITIONS 00% Se S Sc 22 OTHER 3 301 C Custody Sealed Cooler (Y/N) 0#: 1045500 Ice (Y/N) GROUND WATER Песеіуед оп Resi <u>۵</u> O° ni qmeT Page: 5 REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) 11 W/B/1/30 H H Site Location STATE NPDES DATE UST ACCEPTED BY I AFFILIATION BAG 6,2055 47.6 TATELLOW) XG-HOTWO Analysis Test **†** N // Address: Other Reference:
Pace Project

Anni FRA MCCAGA Methanol 27530 Preservatives Na₂S₂O₃ OTG NaOH HCI K × Invoice Information: Company Name: PRINT Name of SAMPLER: 5778 U.E. Unpreserved 4.5O₄ Section C 080/ Attention: 뿔 # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 15/18 0810 0001 DATE 0835 0000 060 2860 IME Troject Name: COMPOSITE END/GRAB 30 DATE COLLECTED Project Number. 12/4 RELINQUISHED BY / AFFILIATION TIME COMPOSITE START Mccasy DATE Required Project Information: urchase Order No.: (G=GRAB C=COMP) SAMPLE TYPE Signe (see valid codes to left) MATRIX CODE Section B Report To: ORIGINAL. Copy To: ~ 꼭 요즘 몫 당 P Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oit Wipe Affr A Email To: Cataras Pinc, con 1176 W. 7th Aug Requested Due Date/TAT: アー・ころの アープ M Ew- 111518-1 62-11-58-6 S P-315111, CA ADDITIONAL COMMENTS "るの」 こうのい EW-111518-(A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE GUGARAE SAMPLE ID Section A Required Client Information: Required Client Information 541-743-2600 Company: ETC Section D f ₱age 10 of 11 # MHTI 7 2 10 6

F-ALL-C-010-rev.00, 09Nov2017

S

DATE Signed

(MM/DD/YY):

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SIGNATURE of SAMPLER:

Pace Analytical*

Document Name: Sample Condition Upon Receipt Form

Document No.: F-MN-L-213-rev.24

Document Revised: 310ct2018 Page 1 of 2

Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt Client Name:			Proje	WO#: 10455808
Courier: Fed Ex UPS Commercial Pace SpeeDee	USPS Other		-]Client	PM: JMG Due Date: 11/27/18 CLIENT: ET Group
Tracking Number: 4U86779004		 .		
Custody Seal on Cooler/Box Present? Yes No Packing Material: Bubble Wrap Bubble Bags			itact?	
Thermometer	∏Nor Tvr	e of Ice:	_Other:_ w	Temp Blank? Yes No
Used: G87A9155100842 Cooler Temp Read (°C): Cooler Temp Cor Temp should be above freezing to 6°C Correction Fact USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the United S NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? If Yes to either question, fill out a Reg	rected (°C or: States: AL, ,): <u>2.</u> Yue AR, CA, F	Da L, GA, ID,	Biological Tissue Frozen? Yes No PA
				COMMENTS:
Chain of Custody Present?	Yes	□No		1.
Chain of Custody Filled Out?	Yes	□No		2.
Chain of Custody Relinquished?	Yes	□No		3.
Sampler Name and/or Signature on COC?	Ves	□No	□N/A	4.
Samples Arrived within Hold Time?	Yes	□No		5.
Short Hold Time Analysis (<72 hr)?	□Yes	₩o	-	6.
Rush Turn Around Time Requested?	Yes	□ ₩6		7.
Sufficient Volume?	Yes	□No		8.
Correct Containers Used?	Yes	□No		9.
-Pace Containers Used?	Yes) -
Containers Intact?	Yes	□No		
Filtered Volume Received for Dissolved Tests?	-	No_		10.
Is sufficient information available to reconcile the samples to the COC? Matrix:	Yes ✓Yes	□No	M/A	11. Note if sediment is visible in the dissolved container 12.
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation?	∐Yes	□No	N/A	13. \square HNO $_3$ \square H $_2$ SO $_4$ \square NaOH Positive for Res. Chlorine? Y N
(HNO₃, H₂SO₄, <2pH, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oll and Grease, DRO/8015 (water) and Dioxin/PFAS	Yes	∏No	.₽N/A	Initial when Lot # of added
Headspace in VOA Vials (>6mm)?	Yes	□No	□N/A	completed: preservative:
Trip Blank Present?	Yes	No		14.
Trip Blank Custody Seals Present?	∐Yes	□No		15.
Pace Trip Blank Lot # (if purchased): N	□Yes	No		
CLIENT NOTIFICATION/RESOLUTION Person Contacted:				Field Data Required?
omments/Resolution:				
Project Manager Review: ote: Whenever there is a discrepancy the ling North Carolina com old, incorrect preservative, out (Ttemp, incorrect containers).	pliance sam	ples, a co	opy of this	Date: / 6/20 8 form will be sent to the North Carolina DEHNR Certification Office (i.e. out of Labeled by:

ATTACHMENT C TREATMENT SYSTEM DATA SHEETS

Air Sparging Treatment System Data Sheet Former Provisioners Express Facility Auburn, Washington

Date: 11/15/18	Time: <u>/o:40</u>			
Operation Parameters:				
	AS Blower Pressure	11.75 psi	*	
		Pressure	Flow Rate	
Air Sparging Wells:	AS Well ID	(psi)	(cfm)	
Manifold A	AS-1		10,5	
	AS-2		< 0.5	
	AS-3	11.5	20.5	
Manifold B	AS-3	11.75	12	
*	AS-4	19	42	
	AS-5	16	42	
System Inspection Checks:	Condensate Drain Blo Condensate Drain Blo Inspect AS Blower Fi Inspect AS Blower En	w Down (Manifo	ld B)	
Comments: * EXTENNAL		(1 76)		
Comments: EXTARNAL	ISLOWIN FILTRE	- APPRALS C	JEAN	