Stantec Consulting Services Inc.
1687 114th Avenue SE, Suite 100
Bellevue, Washington 98004

Stantec

November 19, 2024

Attention: Ms. Elise Gronewald and Mr. Erik Gerking
Project Manager
Port of Everett
1205 Craftsman Way #200
Everett, WA 98201

Reference: Stantec Well Replacement Report

TCSystems Site
Facility Site ID: 10587741
Cleanup Site ID: 628
1032 West Marine View Drive
Everett, Washington

Dear Ms. Gronewald and Mr. Gerking,

Stantec Consulting Services Inc. (Stantec) has prepared this report presenting results of replacement of two monitoring wells (MW-7 and MW-10) that occurred in December of 2022, followed by a sampling event in February 2023. These wells had been decommissioned during Interim Action (IA) activities completed from April through June 2019 at the TCSystems Site (the Site). The work completed was based on a memorandum workplan outlining the well installment method, well development and groundwater monitoring and sampling (Work Plan for Replacement Groundwater Monitoring Well Installation and Groundwater Well Sampling (Stantec 2022) 11/15/2022 submitted to Ecology).

The former locations of the two decommissioned monitoring wells (MW-7 and MW-20) and the locations of the replacement wells (MW-7R and MW-20R) are shown on the attached Figure 1. The figure shows the areas previously excavated around the two decommissioned wells. The replacement wells were placed outside of the excavated areas, at locations approved by Ecology prior to installation. Boring logs showing the installation details of MW-7R and MW-20R are also included as an attachment.

Scope of Work

The scope of work included installation of two monitoring wells and follow-up groundwater sampling of the two newly installed wells. The following provides details of the scope of work:

- Clearing the proposed boring locations for the presence of utilities including vacuum truck removal of first four feet of material at each boring.

Reference: Monitoring Well Installation and Groundwater Monitoring Event

- Installation of two soil borings in the locations shown on attached Figure 1. Soil borings were advanced to a depth of 15 feet with split-spoon soil samples collected at 5-foot intervals during drilling. Two soil samples (at 4' and 15' depths) from each boring were submitted for analysis (SVOCs, cPAHs, total copper and arsenic and NWTPH-Dx).

- Construction of two-inch diameter monitoring wells in each soil boring.

- Well gauging, purging, sampling, and analysis of the two newly installed wells (MW-7R and MW-20R) and gauging of all existing wells.

- Well elevation survey of the newly installed wells and tie-in elevations of the new wells with the existing well network.

- Management and disposal of the investigation derived waste (IDW), and;

- Uploading the analytical data from the soil and groundwater sampling to Ecology's Environmental Information Management (EIM) database.

The following summarizes the analytical program:

Groundwater and Soil Analytical Program

Well Identification	SVOCs	cPAHs	Cu/As [1] (Metals)	TPHd	TPHo
Soil					
MW-7R	X	X	Cu & As	X	X
MW-20R	X	X	Cu & As	X	X
Groundwater					
MW-7R	X	X	Cu & As	X	X
MW-20R	X	X	Cu & As	X	X

[1] Dissolved and total concentration.

The following methods were used:

- Cu (copper) and As (Arsenic) Metals (total and dissolved) by EPA Test Method 200.8 (groundwater) and 6020 (soil);

- cPAHs by EPA Test Method 8270 SIM

- SVOCs by EPA Test Method 8270;

- TPHd and TPHo by Ecology Method NWTPH-Dx.

Reference: Monitoring Well Installation and Groundwater Monitoring Event

Soil sampling and groundwater sampling procedures were provided in the Technical Memo (Work Plan for Replacement Groundwater Monitoring Well Installation and Groundwater Well Sampling, Stantec 2022).

Groundwater Monitoring Results

Table 2 summarizes analytical results, depth to groundwater and groundwater elevations from the sampling event conducted on February 2, 2023, along with historical results. Analytical samples were taken for wells MW-7R and MW-20R only, groundwater elevation samples were taken for all wells. Copies of the laboratory analytical report and chain-of-custody document is provided in ***Attachment A***, and field data sheets are included in ***Attachment B***.

The static water level measured in the wells ranged from 3.58 feet below the top of the well casing (TOC) in well TC-MW-19 to 5.80 feet below TOC in well TC-MW-10. Based on static water level data and surveyed TOC elevations, groundwater flowed in a southwesterly direction (***Figure 2***).

Analytical results from groundwater samples collected were compared to preliminary screening levels (PSLs) based on the January 2020 updated Cleanup Levels and Risk Calculation (CLARC) guidance in addition to published Model Toxics Control Act (MTCA) Method A Clean Up Levels (CULs) as summarized in ***Table 1*** and in the following sections:

Dissolved Metals:

Concentrations of dissolved arsenic were 120 ug/L in MW-7R and 18.0 µg/L in TC-MW-20R. These results were above the MTCA Method A CUL of 5 µg/L. Dissolved copper was the only other metal constituent analyzed and concentrations were below the PSL.

Petroleum Hydrocarbons:

Concentrations of Total Petroleum Hydrocarbons quantified as diesel (TPH-D) were reported ranging from 270 micrograms per liter (µg/L) in the sample collected TC-MW-07R to 480 µg/L in MW-20R. Concentrations of Total Petroleum Hydrocarbons quantified as heavy oil (TPH-O) were reported ranging from 300 micrograms per liter (µg/L) in the sample collected TC-MW-07R to 400 µg/L in MW-20R

TPH-D and TPH-O concentrations did not exceed the MTCA Method A CULs of 500 µg/L.

Semi-Volatile Organic Compounds (SVOCs):

Reference: Monitoring Well Installation and Groundwater Monitoring Event

SVOC constituents detected in one or more groundwater sample analyzed this event consisted of cPAHs, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluorene, phenanthrene, 2,4-dimethylnaphthalene, 3,4-methylphenol, dibenzofuran and phenol as summarized in ***Table 1***.

None of the detected SVOC concentrations were reported above MTCA Method A or Method B CULs. cPAHs were reported above both MTCA Method A and B in replacement well MW-7R only.

Soil Sampling Results

Tables 2a, 2b, 2c and 2d summarize analytical results and soil sample depth. Copies of the laboratory analytical report and chain-of-custody document are provided in ***Attachment A***, and field data sheets are included in ***Attachment B***.

All soil constituent concentrations in the soil samples analyzed were below the referenced clean-up levels, except for samples collected from MW-7R at 4' and 15' and MW-20R at 4'. These three samples contained PAH concentrations above the MTCA Method B Direct Contact Cleanup Level.

Data Usability Assessment

Data received from the project laboratory underwent up to a Stage 2 data validation which verified that supporting QA/QC were of a level of quality necessary to support sample results. This included evaluation of the laboratory narrative, laboratory blank results, surrogate recoveries, laboratory control sample and duplicate (LCS/LCSD) results, and the RPD between primary and duplicate samples, and review of all sample results for which data qualifiers were added by the laboratory. Following this, the Stantec data validator may add additional data qualifiers depending on the individual project DQO's, review of field forms and notes, and compliance with field SOPs.

All data were reviewed for accuracy based on the surrogate recovery and spike results. Precision was reviewed based on the relative percent differences (RPDs) of the field duplicate and primary sample pairs. Results were also reviewed for completeness and comparability based on the analytical method requirements, the holding time criteria, and the reporting limits for the samples analyzed. The major findings are as follows:

The laboratory was requested to report data down to the MDL and as such detected data were qualified as estimated ("J"). No other data qualifiers were assigned by the laboratory. The RPDs between the primary and duplicate samples were within acceptance limits for TPH-d, TPH-o, and metals but outside acceptance limits for several semi-volatile organic compounds (e.g.,

Reference: Monitoring Well Installation and Groundwater Monitoring Event

naphthalene and benzo(a)pyrene). Review of all groundwater data indicates that duplicate data (DUP-1) for semi volatile compounds should be qualified as J, FD - estimated values based on field duplicate precision exceeding criteria. Field notes and sampling forms did not indicate any departure from groundwater sampling SOP.

All surrogate recovery was within laboratory and method acceptance limits.

Based on review of analytical reports, all data are of known and acceptable quality as qualified and are considered acceptable for their intended uses.

Summary and Conclusions

Results of the monitoring well installation and groundwater monitoring event indicate the following:

Soil quality along the property line adjacent to the new storm drainage line is consistent with historical results and cPAH concentrations remain above the MTCA Method B Direct Contact Cleanup Level in both replacement wells.

Groundwater flow directions remains consistent with historical results (south and southwest).

Analytical results of groundwater samples collected from newly installed wells MW-7R and MW-20R indicated concentrations of arsenic above MTCA A CULs. Except for cPAHs reported in MW-7R, all other constituents analyzed (copper, SVOCs and TPH) were not detected above either MTCA A or MTCA B CULs.

If you have any questions or require additional information, please contact Marc Sauze at (425) 894-2329.

Regards,

Stantec Consulting Services Inc.

Robert McAlister
Project Geologist, Environmental Services
Phone: 503-220-5458
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Reference: Monitoring Well Installation and Groundwater Monitoring Event

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FIGURES

TC Systems Site

Monitoring Well Replacement and Groundwater Monitoring Event

MW-10

MW-5

TC Systems Site

MW-20
(Decommissioned)

CB102

MW-9

BS-4 (11-12')

MW-8

MW-7 (decommissioned)

MW-7R

MW-20R

MW-6

N

SD-8

Ameron Manufacturing Building

Approximate Location of Historical Grade Difference (Interpreted from aerial photos dated 9/13/73 & 4/11/80)

Data Source: Basemap from LAI Figure 2 included in 2019 LAI Partial Cleanup and Compliance Monitoring Technical Memorandum 2019 AND Topographic and Boundary Survey for TC Systems Site Prepared by Otak Incorporated dated May 10, 2011

Legend

- Catch Basin
- TC Systems Monitoring Wells
- New Monitoring Well
- Approximate Excavation Area. Precise limits shown separately in construction as-built drawings.
- 1976 Pavement Line (Approximate)
- Building
- Storm Line (Current Alignment)
- Storm Line (Historical Alignment)
- Parcel Line

Cleanup Excavation Depths

- 1.5' below pipe invert
- 3.5' below pipe invert
- 5' below ground surface

0 30 60

Scale in Feet

G:\Projects\147\029\500\960\F02ExcavationSampleLocations.mxd 8/5/2019

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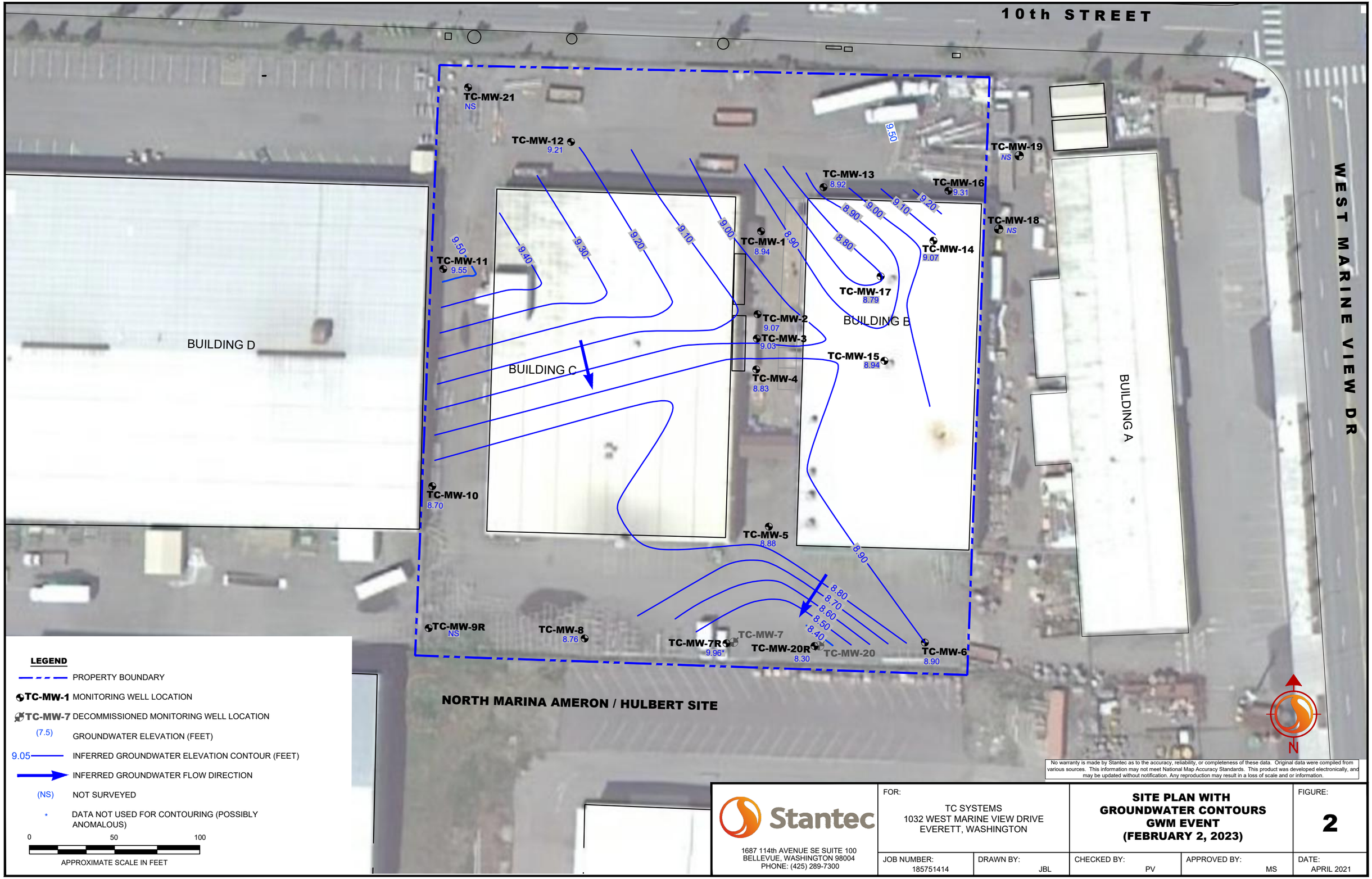
North Marina Ameron/Hulbert Site
Partial Cleanup Action
Everett, Washington

Excavation Area and Proposed Replacement Well Locations

FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185751414	EBL	MS	MS	7/19/2022



LEGEND

- PROPERTY BOUNDARY
- TC-MW-1 MONITORING WELL LOCATION
- TC-MW-7 DECOMMISSIONED MONITORING WELL LOCATION
- (7.5) GROUNDWATER ELEVATION (FEET)
- 9.05 INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- (NS) NOT SURVEYED
- * DATA NOT USED FOR CONTOURING (POSSIBLY ANOMALOUS)

0 50 100

APPROXIMATE SCALE IN FEET

Stantec
1687 114th AVENUE SE SUITE 100
BELLEVUE, WASHINGTON 98004
PHONE: (425) 289-7300

FOR:
TC SYSTEMS
1032 WEST MARINE VIEW DRIVE
EVERETT, WASHINGTON

SITE PLAN WITH GROUNDWATER CONTOURS GWM EVENT (FEBRUARY 2, 2023)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185751414	JBL	PV	MS	APRIL 2021

November 19, 2024

TABLES: GROUNDWATER MONITORING AND ANALYTICAL RESULTS AND SOIL ANALYTICAL RESULTS

TCSystems

Monitoring Well Replacement and Groundwater Monitoring Event

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
TC SYSTEMS
1032 WEST MARINE VIEW DRIVE, EVERETT, WASHINGTON
All results in micrograms per liter (µg/L)**

Well ID (TOC)	Sample Date	Petroleum Hydrocarbons		Metals		SVOCs																										Depth To Water (feet)	Groundwater Elevation (feet)
		TPH-D	TPH-O	Dissolved Copper	Dissolved Arsenic	Naphthalene	1-Methyl Naphthalene	2-Methyl Naphthalene	Acenaphthene	Fluorene	Phenanthrene	cPAHs	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Tyrichlorophenol	2,4-Dimethylphenol	2-Methylphenol	3&4 Methylphenol	Benzoic Acid	Benzyl Butyl Phthalate	bis (2-Ethylhexyl) Adipate	bis (2-Ethylhexyl) phthalate	Carbazole	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Di-n-butylphthalate	Di-n-octylphthalate	Pentachlorophenol	Phenol	All Remaining SVOCs		
TC-MW-1	05/02/11	<50	<100	3.16	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	2.26	<1.00	<1.00	<2.00	<2.00	ND	4.59	9.35
13.94	07/17/12	<50	<100	2.49	4.64	<0.100	<0.100	<0.100	<0.100	<0.100	0.101	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	1.1	1.56	<5.00	<1.00	<1.00	<1.00	1.09	<1.00	<2.00	<2.00	ND	4.71	9.23
	02/14/13	--	--	3.13	2.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.65	9.29
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.30	8.64
	02/24/21	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.97	8.97
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.00	8.94
TC-MW-02	05/03/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.95	9.34
13.29	07/17/12	--	--	<0.500	**42.7**	<0.100	<1.00	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	1.63	<5.00	<1.00	<1.00	<1.00	1.57	<1.00	<2.00	<2.00	ND	4.02	9.27
	02/14/13	--	--	1.58	**30.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.97	9.32
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.55	8.74
	02/26/21	--	--	--	**7.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.22	9.07
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.22	9.07
TC-MW-03	05/03/11	--	--	3.34	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.50	9.31
13.81 DUP	05/03/11	--	--	3.2	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.50	9.31
	07/17/12	--	--	0.668	**33.4**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	1.17	<5.00	<1.00	<1.00	<1.00	1.15	<1.00	<2.00	<2.00	ND	4.56	9.25
	02/15/13	--	--	1.97	**30.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.50	9.31
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.11	8.70
	02/24/21	--	--	4.2	4.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.78	9.03
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.78	9.03
TC-MW-04	05/03/11			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.00	9.29
14.29	07/17/12	--	--	<0.500	<1.00	<0.100	<0.100	<0.100	0.23	<0.100	0.115	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.10	9.19
	02/15/13	--	--	9.81	<0.266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.05	9.24
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.75	8.54
	02/24/21	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.44	8.85
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.46	8.83
TC-MW-05	05/03/11	--	--	6.72	<1.00	3.17	<0.500	<0.500	1.54	0.864	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.63	9.33
13.96	07/17/12	--	--	2.08	**5.20**	0.224	0.314	0.144	1.41	0.758	0.359	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.77	9.19
	02/15/13	--	--	0.847	**6.79**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.70	9.26
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.36	8.60
	02/26/21	--	--	<2.0	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.06	8.90
	02/02/23	--	--	<2.0	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.08	8.88
TC-MW-06	05/03/11	--	--	2.64	**11.1**	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	3.42	9.35
12.77	07/17/12	--	--	<0.500	**31.5**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	1.14	4.52	<5.00	<1.00	<1.00	<1.00	1.17	<1.00	<2.00	<2.00	ND	3.56	9.21
	02/15/13	--	--	4.36	**23.2**	0.0572(J)	<0.00226	<0.00384	0.0453	0.0379	0.0884	0.0175	<0.0208	<0.0268	<0.0339	<0.0210	<0.0376	<0.0245	<0.00568 / <0.0563	0.451	<0.0552	0.703	0.208	<0.0553	<0.0131	0.181	<1.00	0.114	<0.0258	<0.0344	<0.0401	ND	3.50	9.27
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.18	8.59
	02/26/21	--	--	<2.0	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.86	8.91
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.87	8.90
TC-MW-07	05/04/11	--	--	8.22	<1.00	10.0	0.885	<0.500	2.66	1.52	1.01	**0.5055**	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	3.85	9.03
12.88	07/17/12	<50.0	<100	1.54	**14.4**	4.27	1.47	1.44	3.26	2.01	3.57	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	1.19	<5.00	<1.00	<1.00	<1.00	1.12	1.74	<2.00	<2.00	ND	3.93	8.95
	02/15/13	<9.81 / 174	146	0.499	**20.8**	1.57	0.75	0.633	2.27	1.67	2.71	0.0217	<0.0208	<0.0268	<0.0339	<0.0210	<0.0376	<0.0245	<0.0568 / <0.0563	1.09	<0.0552	0.871	1..27	0.481	0.794	<0.0347	0.189	0.204	<0.0258	<0.0344	<0.0401	ND	3.93	8.95
TC-MW-07R	02/02/23	260	290	0.57(J)	**120**	0.14	0.1	0.066	0.13	0.13	0.22	**0.2826**	<1.0	--	<1.5	<0.86	<0.84	<1.2	'<0.78	<2.3	<0.64	--	<0.46(J)	--	0.023	<0.77	<0.66	<0.80	<0.84	<0.015	<1.00	ND	3.77	9.96
13.73	2/2/2023 (DUP)	270	300	0.57(J)	**110**	4.0	3.9	4.7	5.1	3.2	4.4	**1.529**	<1.0	--	<1.5	<0.85	<0.83	4.7	5.6	<2.3	<0.63	--	<0.77	--	2.00	<0.76	<0.65	<0.79	<0.83	<0.015	2.9	ND	3.77	9.96
TC-MW-08	05/04/11	--	--	16.2	<1.00	<1.00	<0.500	<0.500	0.62	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.30	9.28
13.58	07/17/12	--	--	1.72	2.03	<0.100	0.394	0.195	1.45	0.801	0.232	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	1.34	<1.00	<2.00	<2.00	ND	4.96	8.62
	02/15/13	--	--	0.511	<0.266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.33	9.25
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.05	8.53
	02/26/21	--	--	3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.81	8.77
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.82	8.76
TC-MW-09	05/04/11	--	--	27	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.40	9.32
13.72	07/17/12	--	--	1.64	1.71	<0.100	<0.100	<0.100	0.39	0.111	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	1.28	<1.00	<2.00	<2.00	ND	4.58	9.14
	02/14/13	--	--	1.01	<0.266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.50	9.22
TC-MW-09R	03/13/14	--	--	0.292	2.59	0.0587(J)	0.0224	<0.00148	0.297	0.106	0.0378J	**0.0103**	<0.00915	<0.0177	0.0720	0.0559	<0.0101	<0.0209	0.103 / 0.103	<0.0503	0.15	<0.0106	0.502	0.100	0.0532	0.265	0.0267	1.04	<0.00659	<0.109	<0.0111	ND	4.79	--
NS	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.11	--
	02/26/21	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.88	--
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.90	--
TC-MW-10	05/03/11	--	--	20.8	<1.00	<1.00	<0.500	<0.500	1.01	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.22	9.28
14.50	07/19/12	--	--	3.09	1.50	<0.100	<0.100	<0.100	0.483	0.149	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.36	9.14
	02/14/13	--	--	1.21	<0.266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.26	9.24
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.00	8.50
	02/26/21	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.75	8.75
14.8	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.80	9.00
TC-MW-11	05/04/11	--	--	24	<1.00	<1.00	<0.500	<0.500	0.901	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.00	9.46
13.46	07/19/12	--	--	1.81	**7.80**	0.178	1.17	0.105	3.4	1.24	0.289	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	2.54	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	1.04	<2.00	<2.00	ND	4.15	9.31
	02/14/13	--	--	0.945	**5.26**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.09	9.37
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.42	9.04
	02/26/21	--	--	2.0	**10**	<2.0	<2.0	<2.0	3.2	<2.0	<2.0	**1.51**[f]	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	ND	4.00	9.46
DUP	02/26/21	--	--	<2.0	**10**	<2.0	<2.0	<2.0	4.0	2.0	<2.0	**1.51**[f]	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	ND	4.00	9.46
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.91	9.55
MTCA Method A CULs		**500**	**500**	**--**	**5**	**160**[c]			**--**	**--**	**--**	**0.1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**		
MTCA Method B CULs		**--**	**--**	**640**	**4.8**	**160**	**560**	**32**	**480**	**320**	**NE**	**0.023**	**480**	**NE**	**1600**	**--**	**320.00**	**320**	**NE**	**64,000**	**3,200**	**9,600**	**320**	**NE**	**8**	**13,000**	**NE**	**1,600**	**160**	**80**	**4,800**	**--**		
Preliminary Screening Level[b]		**500**	**500**	**2.40**	**5**	**4,938**	**0.5**	**32**	**0.5**	**3,456.8**	**0.5**	**--**	**480**	**1.0**	**3,600**	**2.4**	**552.80**	**400**	**400/40**[d]	**64,000**	**1,260**	**400**	**2.2**	**5.0**	**32**	**28,412**	**1,100,000**	**2,913**	**320**	**2.0**	**1,110,000**	**--**		

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
TC SYSTEMS
1032 WEST MARINE VIEW DRIVE, EVERETT, WASHINGTON
All results in micrograms per liter (µg/L)**

Well ID (TOC)	Sample Date	Petroleum Hydrocarbons		Metals		SVOCs																									Depth To Water (feet)	Groundwater Elevation (feet)
		TPH-D	TPH-O	Dissolved Copper	Dissolved Arsenic	Naphthalene	1-Methyl Naphthalene	2-Methyl Naphthalene	Acenaphthene	Fluorene	Phenanthrene	cPAHs	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Tyrichlorophenol	2,4-Dimethylphenol	2-Methylphenol	3&4 Methylphenol	Benzoic Acid	Benzyl Butyl Phthalate	bis (2-Ethylhexyl) Adipate	bis (2-Ethylhexyl) phthalate	Carbazole	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Di-n-butylphthalate	Di-n-octylphthalate	Pentachlorophenol	Phenol	All Remaining SVOCs		
TC-MW-12	05/04/11	--	--	6.12	**11.8**	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.40	9.40
13.80	07/19/12	--	--	1.89	**81.7**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	2.96	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	4.60	9.20
	02/14/13	--	--	1.26	**77.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.41	9.39
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.95	8.85
	02/26/21	--	--	<2.0	**13**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.61	9.19
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.59	9.21
TC-MW-13	05/05/11	--	--	3.46	<1.00	<1.00	<0.500	<0.500	0.532	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.02	9.41
14.43	07/19/12	<50 / 135[a]	<100	2.34	2.14	<0.100	0.229	<0.100	0.470	0.245	0.178	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.29	9.14
DUP	07/19/12	<50 / 425[a]	**1,190**	1.81	1.78	<0.100	0.232	<0.100	0.479	0.249	0.166	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND		
	02/14/13	<9.81 / 269[a]	217	1.02	4.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.18	9.25
	03/13/14	<10.8 / 236[a]	194	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.50	8.93
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.95	9.48
	02/26/21	380	<250	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.50	8.93
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.51	8.92
TC-MW-14	05/05/11	<50 / 8,100[a]	<100	7.04	<1.00	14.6	4.0	6.55	1.45	0.868	1.71	**0.3775**[f]	2.49	2.49	<2.00	<2.00	2.4	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	16.8	<2.00	ND	5.30	9.32
14.62	07/19/12	<50 / 1,910[a]	**986**	1.72	2.6	1.11	3.76	4.95	0.904	0.845	1.51	**0.0822**	<1.00	<1.00	<2.00	<2.00	11	7.59	-- / 398	42.5	<1.00	<1.00	1.57	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	15.3	ND	5.40	9.22
	02/13/13	<9.81 / 244[a]	119	1.41	0.743	0.930	2.39	3.02	0.557	0.513	0.860	**0.0256**	<0.0208	<0.0268	<0.0339	<0.0210	0.937	0.600	4.12 / 4.12	0.632	0.128	0.624	16.9	0.215	0.198	0.186	--	0.157	<0.0258	0.292	0.125	ND	5.30	9.32
	02/24/21	**3,300**	**1,600**	<2.0	--	<2.0	3.8	4.8	<2.0	<2.0	3.1	**1.51**	<2.0	--	<2.0	<2.0	29	3.9	29	<10	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	ND	5.62	9.00
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.55	9.07
TC-MW-15	05/05/11	--	--	6.15	<1.00	0.777	<0.500	0.513	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.26	9.37
14.63	07/19/12	--	--	0.790	**60.8**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	3.23	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.45	9.18
	02/13/13	--	--	7.73	**61.9**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.31	9.32
	02/24/21	--	--	<2.0	**93**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.59	9.04
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.69	8.94
TC-MW-16	05/05/11	--	--	4.49	**65.6**	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.02	9.43
14.45	07/18/12	<50	<100	<0.500	**121**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	2.43	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	1.1	<1.00	<2.00	<2.00	ND	4.96	9.49
	02/14/13	<9.81 / 52.3[a]	72.5	11.2	**82.3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.91	9.54
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.61	8.84
	02/26/21	--	--	<2.0	**37**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.33	9.12
14.65	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.14	9.51
TC-MW-17	05/05/11	--	--	3.67	<1.00	19.9	1.54	1.55	2.42	0.933	0.655	**0.3775**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.18	9.34
14.52	07/19/12	<9.81 / 172[a]	**1,420**	1.87	**6.39**	2.80	0.596	0.222	0.577	0.313	0.150	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / <1.00	<2.00	<1.00	<1.00	1.15	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	5.35	9.17
	02/13/13	<9.81 / 394[a]	389	3.73	**9.15**	5.03	0.252	0.0870	0.472	0.277	0.149	0.0175	<0.0208	<0.0268	<0.0339	<0.0210	<0.0376	<0.0245	0.0969 / 0.0969	0.946	0.122	0.774	0.271	0.213	0.157	<0.0347	--	0.111	<0.0258	<0.0344	<0.0401	ND	5.30	9.22
	02/24/21	270	<250	<2.0	**32**	9.1	<2.0	<2.0	3.2	<2.0	<2.0	**1.51**	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	ND	5.71	8.81
DUP-2	02/24/21	350	<250	<2.0	**31**	9.5	<2.0	<2.0	3.1	<2.0	<2.0	**1.51**	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	ND	5.71	8.81
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	5.73	8.79
TC-MW-18	07/18/12	<50 / 310	125	3.06	**6.49**	1.95	0.447	0.404	0.214	0.564	0.964	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / 22	7.34	<1.00	<1.00	1.01	<5.00	<1.00	<1.00	<1.00	1.19	<1.00	<2.00	<2.00	ND	4.10	--
NS	02/14/13	<9.81 / 119	<64.0	1.4	4.43	0.413	0.0835	0.0652	0.0503J	0.106	0.206	**0.0510**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.29	--
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.83	--
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.36	--
TC-MW-19	07/18/12	<50	<100	2.07	**425**	0.300	<0.100	0.123	<0.100	<0.100	<0.100	**0.0755**[f]	<1.00	<1.00	<2.00	<2.00	<1.00	<1.00	-- / 1.69	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	ND	3.57	--
NS	02/14/13	22.9J	<64.0	0.782	**271**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.30	--
	03/13/14	--	--	<0.117	**35.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.73	--
	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.19	--
	02/24/21	--	--	--	**220**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.79	--
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.58	--
TC-MW-20	03/13/14	--	--	<0.117	**35.5**	20.8	1.31	1.3	2.74	1.93	2.24	**0.0100**	<0.00915	<0.0177	<0.0452	<0.0171	0.0923	<0.0209	0.0366 / 0.0366	<0.0503	0.26	<0.0106	2.85	0.41	1.35	0.0996	<0.00871	0.894	<0.00659	<0.109	<0.0111	ND	3.90	--
NS																																		
TC-MW-20R	02/02/23	480	400	0.58(J)	**18**	0.14	0.12	0.07	0.16	0.16	0.24	**0.1698**	<1.0	--	<1.5	<0.85	<0.83	<1.2	<0.77	<2.3	<0.63	--	<0.44(J)	--	0.029	<0.76	<0.65	<0.79	<0.83	<0.015	<0.39(J)	ND	4.61	8.30
12.91																																		
TC-MW-21	03/13/14	--	--	1.31	**8.83**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.02	--
NS	07/18/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.31	--
	02/26/21	--	--	--	**24**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.84	--
	02/02/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.14	--
TC-SB-24	03/13/14	--	--	<0.117	2.82	2.45	1.53	0.820	0.669	2.37	2.94	**0.10299**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NS																																		
MTCA Method A CULs [e]		**500**	**500**	**--**	**5**	**160[c]**			**--**	**--**	**--**	**0.1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**			
MTCA Method B CULs [e]		**--**	**--**	**640**	**4.8**	**160**	**560**	**32**	**480**	**320**	**NE**	**0.023**	**480**	**NE**	**1600**	**--**	**320**	**320**	**NE**	**64,000**	**3,200**	**9,600**	**320**	**NE**	**8**	**13,000**	**NE**	**1,600**	**160**	**80**	**4,800**	**--**		
Preliminary Screening Level[b]		**500**	**500**	**2.40**	**5**	**4,938**	**0.5**	**32**	**0.5**	**3,456.8**	**0.5**	**--**	**480**	**1.0**	**3,600**	**2.4**	**552.80**	**400**	**400/40[d]**	**64,000**	**1,260**	**400**	**2.2**	**5.0**	**32**	**28,412**	**1,100,000**	**2,913**	**320**	**2.0**	**1,110,000**	**--**		

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
TC SYSTEMS
1032 WEST MARINE VIEW DRIVE, EVERETT, WASHINGTON
All results in micrograms per liter (µg/L)**

Well ID (TOC)	Sample Date	Petroleum Hydrocarbons		Metals		SVOCs																									Depth To Water (feet)	Groundwater Elevation (feet)
		TPH-D	TPH-O	Dissolved Copper	Dissolved Arsenic	Naphthalene	1-Methyl Naphthalene	2-Methyl Naphthalene	Acenaphthene	Fluorene	Phenanthrene	cPAHs	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Tyrichlorophenol	2,4-Dimethylphenol	2-Methylphenol	3&4 Methylphenol	Benzoic Acid	Benzyl Butyl Phthalate	bis (2-Ethylhexyl) Adipate	bis (2-Ethylhexyl) phthalate	Carbazole	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Di-n-butylphthalate	Di-n-octylphthalate	Pentachlorophenol	Phenol	All Remaining SVOCs		

Abbreviations and Notes:
TOC = Top of Casing Elevation
NS = Not Surveyed
NE = Not Established
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-O = Total Petroleum Hydrocarbons as Oil
SVOCs = Semi-Volatile Organic Compounds
cPAHs = Carcinogenic Polyaromatic Hydrocarbons
ND = Non Detect
< = Less than the specified analytical laboratory practical quantitation limit
-- = Not Measured or Not Sampled
MTCA = Ecology's Model Toxics Control Act
CULs = Cleanup Levels
Bold = Value exceeds the MTCA Method B Cleanup Level
a = Diesel Fuel Concentration / Diesel Range Organics Concentration
b = Based on April 1, 2011 updated CLARC value
c = This is the total value for naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene.
d = 3-Methylphenol Preliminary Screening Level is 400 µg/L; 4-Methylphenol Preliminary Screening Level is 40 µg/L.
e = Method A and cancer Method B CULs are taken directly from Jan 2023 CLARC tables.
f = Concentrations of cPAHs were below laboratory limits and may exceed the Jan 2023 CLARC CULs
J = Estimated Value

Table 2a. Laboratory Data for Soil
Semi-volatile organic compounds by EPA Method 8270

Analyte	Soil MRL	Preliminary Screening Level (mg/kg)[5]	Method B Direct Contact Cleanup Level (mg/kg)[a]	Sample ID: MW-7R-(4')	Sample ID: MW-7R-(15')	Sample ID: MW-20R-(4')	Sample ID: MW-20R-(15')
				Date: 12/12/2022	Date: 12/12/2022	Date: 12/12/2022	Date: 12/12/2022
	mg/kg			Time: 9:30	Time: 10:10	Time: 10:15	Time: 11:35
				Depth: 4'	Depth: 15'	Depth: 4'	Depth: 15'
				Comments:	Comments:	Comments:	Comments:
1,2,4-Trichlorobenzene	0.1	2.6	800	**ND(<10)**	ND(<1.1)	ND(<0.11)	ND(<0.10)
1,2-Dichlorobenzene	0.1	15.2	7,200	ND(<10)	ND(<1.0)	ND(<0.10)	ND(<0.10)
1,2-Dinitrobenzene	0.1	32	8	NA	NA	NA	NA
1,3-Dichlorobenzene	0.1	0.1	NE	**ND(<10)**	**ND(<1.0)**	**ND(<0.10)**	**ND(<0.10)**
1,3-Dinitrobenzene	0.5	8	8	NA	NA	NA	NA
1,4-Dichlorobenzene	0.1	0.1	5,600	**ND(<10)**	**ND(<1.0)**	**ND(<0.10)**	**ND(<0.10)**
1,4-Dinitrobenzene	0.5	32	8	NA	NA	NA	NA
1-Methylnaphthalene	0.1	0.1*	34/35**	25.0	5.80	**ND(<0.10)**	**ND(<0.10)**
2,3,4,6-Tetrachlorophenol	0.1	2,400	2,400	ND(<10)	ND(<1.0)	ND(<0.10)	ND(<0.10)
2,3,5,6-Tetrachlorophenol	0.1	0.1	NE	NA	NA	NA	NA
2,4,5-Trichlorophenol	0.2	129.4	8,000	ND(<10)	ND(<1.0)	ND(<0.20)	ND(<0.20)
2,4,6-Trichlorophenol	0.2	0.2	8,000	**ND(<10)**	**ND(<1.0)**	**ND(<0.20)**	**ND(<0.20)**
2,4-Dichlorophenol	0.2	1.3	240	**ND(<50)**	**ND(<5.0)**	ND(<0.37)	ND(<0.31)
2,4-Dimethylphenol	0.1	5	1,600	**ND(<10)**	ND(<1.0)	ND(<0.10)	ND(<0.10)
2,4-Dinitrophenol	0.2	13.8*	NE	ND(<10)	ND(<1.2)	ND(<0.20)	ND(<0.20)
2,4-Dinitrotoluene	0.1	0.1	160	**ND(<10)**	**ND(<1.1)**	**ND(<0.10)**	**ND(<0.10)**
2,6-Dinitrotoluene	0.1	0.1	24	**ND(<10)**	**ND(<1.0)**	**ND(<0.10)**	**ND(<0.10)**
2-Chloronaphthalene	0.1	6,400	6,400	ND(<10)	ND(<1.0)	ND(<0.10)	ND(<0.10)
2-Chlorophenol	0.1	1.1	400	**ND(<25)**	**ND(<2.5)**	ND(<0.15)	ND(<0.12)
2-Methylnaphthalene	0.1	320*	320	37.000	5.900	ND(<0.10)	ND(<0.10)
2-Methylphenol (o-cresol)	0.1	2.3	4,000	**ND(<10)**	ND(<1.2)	ND(<0.10)	ND(<0.10)
2-Nitroaniline	0.5	0.5	800	**ND(<10)**	**ND(<1.0)**	**ND(<0.5)**	**ND(<0.5)**
2-Nitrophenol	0.2	0.2	NE	**ND(<10)**	**ND(<1.2)**	**ND(<0.20)**	**ND(<0.20)**
3-Methylphenol (p-cresol)	0.1	4,000	4,000	ND(<11)	ND(<1.3)	ND(<0.10)	ND(<0.10)
3-Nitroaniline	0.5	0.5	NE	**ND(<100)**	**ND(<10)**	**ND(<0.88)**	**ND(<0.74)**
4,6-Dinitro-2-methylphenol	0.2	5	NE	**ND(<50)**	**ND(<5.0)**	ND(<0.2)	ND(<0.2)
4-Bromophenyl phenyl ether	0.1	0.1	NE	**ND(<10)**	**ND(<1.1)**	**ND(<0.10)**	**ND(<0.10)**
4-Chloro-3-methylphenol	0.5	6,100	8,000	ND(<50)	ND(<5.2)	ND(<0.5)	ND(<0.5)
4-Chloroaniline	0.5	0.5	320	**ND(<100)**	**ND(<10)**	**ND(<0.86)**	**ND(<0.72)**
4-Chlorophenyl phenyl ether	0.1	0.1	NE	**ND(<11)**	**ND(<1.2)**	**ND(<0.1)**	**ND(<0.10)**
4-Methylphenol (m-cresol)	0.1	400	4000	ND(<11)	ND(<1.3)	ND(<0.1)	ND(<0.10)
4-Nitrophenol	0.5	0.5	NE	**ND(<10)**	**ND(<1.1)**	**ND(<0.5)**	**ND(<0.5)**
Aniline	0.2	175	560	ND(<10)	ND(<1.0)	ND(<0.1)	ND(<0.1)
Azobenzene	0.1	9	9.1	**ND(<10)**	ND(<1.0)	ND(<0.1)	ND(<0.1)
Benzoic Acid	0.2	257	320,000	ND(<100)	ND(<12)	ND(<1.1)	ND(<1.0)
Benzyl alcohol	0.1	24,000	8,000	ND(<10)	ND(<1.0)	ND(<0.1)	ND(<0.1)
Butyl Benzyphthalate	0.1	351*	16,000	ND(<10)	ND(<1.1)	ND(<0.1)	ND(<0.1)
bis (2-Ethylhexyl) adipate	0.1	833	48,000	NA	NA	NA	NA
bis (2-Ethylhexyl) phthalate	0.1	4.9	71	ND(<11)	ND(<1.3)	ND(<0.1)	ND(<0.1)
Bis(2-chloroethoxy)methane	0.1	180	240	ND(<25)	ND(<2.5)	ND(<0.18)	ND(<0.15)
Bis(2-chloroethyl)ether	0.2	0.2	0.91	**ND(<25)**	**ND(<2.5)**	**ND(<0.2)**	**ND(<0.2)**
Bis(2-chloroisopropyl)ether	0.1	3,200	NE	ND(<25)	ND(<2.5)	ND(<0.2)	ND(<0.2)
Carbazole	0.5	0.5*	NE	**ND(<25)**	**ND(<5)**	**ND(<0.5)**	**ND(<0.5)**
Dibenzofuran	0.1	160*	80	17.000	3.900	ND(<0.1)	ND(<0.1)
Diethylphthalate	0.1	160.2	64,000	ND(<10)	ND(<1.1)	ND(<0.1)	ND(<0.1)
Dimethylphthalate	0.1	80,000*	NE	ND(<10)	ND(<1.0)	ND(<0.1)	ND(<0.1)
Di-n-butylphthalate	0.1	103	8,000	ND(<10)	ND(<1.0)	ND(<0.1)	ND(<0.1)
Di-n-octyl phthalate	0.1	1,600	800	ND(<10)	ND(<1.1)	ND(<0.1)	ND(<0.1)
Diphenylamine	0.5	2,000	8,000	NA	NA	NA	NA
Hexachlorobenzene	0.1	0.1	64	**ND(<11)**	**ND(<1.3)**	ND(<0.1)	ND(<0.1)
Hexachlorobutadiene	0.1	12.8	80	**ND(<25)**	ND(<2.5)	ND(<0.2)	ND(<0.17)
Hexachlorocyclopentadiene	0.1	480	480	ND(<10)	ND(<1.1)	ND(<0.1)	ND(<0.1)
Hexachloroethane	0.1	0.1	56	**ND(<10)**	**ND(<1.1)**	**ND(<0.1)**	**ND(<0.1)**
Isophorone	0.1	3	16,000	**ND(<10)**	ND(<1.1)	ND(<0.11)	ND(<0.1)
Nitrobenzene	0.2	2.9	160	**ND(<10)**	ND(<1.0)	ND(<0.2)	ND(<0.2)
N-Nitroso-di-n-propylamine	0.1	0.1	0.14	**ND(<25)**	**ND(<2.5)**	**ND(<0.14)**	**ND(<0.12)**
Pentachlorophenol	0.2	0.2*	400	**ND(<25)**	**ND(<2.5)**	ND(<0.22)	ND(<0.2)
Phenol	0.2	5,084.50	24,000	ND(<10)	ND(<1.0)	ND(<0.2)	ND(<0.2)

Notes:

All results expressed in milligrams per kilogram (mg/kg)

* based on April 1, 2011 updated CLARC value

** Based on the cleanup criteria per the 2016 Phase II reports for Parcels A, D and E

a=Based on the January 2023 CLARC non-cancer value, except when noted otherwise

MRL = Laboratory Method Reporting Limit

NA = not analyzed

NE = not established

Bold = Non-detection value of analyte in exceedance of preliminary screening level.

Analyte detected above MRL and Preliminary Screening Level

The following analytes were analyzed by methods SW8270 and SW8270ESIM in samples MW-7R-4' and MW-7R-15': 1-Methylnaphthalene, 2-Methylnaphthalene, Bis(2-Chloroethyl)Ethe
Carbazole,Dibenzofuran, Hexachlorobenzene, Pentachlorophenol. For these analytes, the highest of the two values was reported

Table 2b. Laboratory Data for Soil
Hydrocarbons by NWTPH Methods

Diesel range petroleum hydrocarbons by NWTPH-Dx							
Analyte	**Soil MRL** **mg/kg**	**Preliminary Screening Level (mg/kg)***	**Method A Cleanup Level (mg/kg)**	**Sample ID: MW-7R-(4')**	**Sample ID: MW-7R-(15')**	**Sample ID: MW-20R-(4')**	**Sample ID: MW-20R-(15')**
				Date: 12/12/2022	**Date: 12/12/2022**	**Date: 12/12/2022**	**Date: 12/12/2022**
				Time: 9:30	**Time: 10:10**	**Time: 10:15**	**Time: 11:35**
				Depth: 4'	**Depth: 15'**	**Depth: 4'**	**Depth: 15'**
				Comments:	**Comments:**	**Comments:**	**Comments:**
Heavy Oil	50	2,000	2,000	750	780	130	50.0
Diesel Range Organics	25.1	2,000	2,000	1,500	920	54	23

Notes:
All results expressed in milligrams per kilogram (mg/kg)
* based on April 1, 2011 updated CLARC value
MRL = Laboratory Method Reporting Limit
Bold = Non-detection value of analyte in exceedance of preliminary screening level.
a= MTCA Method A Cleanup Screening Level is 30 mg/kg when benzene is present and 100 mg/kg when benzene is not present.

Table 2c. Laboratory Data for Soil
Metals in soil by EPA Method 6020/200.8

Analyte	Soil MRL mg/kg	Preliminary Screening Level (mg/kg)*	Method B Direct Contact Cleanup Level (mg/kg)[a]	Sample ID: MW-7R-(4')	Sample ID: MW-7R-(15')	Sample ID: MW-20R-(4')	Sample ID: MW-20R-(15')
				Date: 12/12/2022	Date: 12/12/2022	Date: 12/12/2022	Date: 12/12/2022
				Time: 9:30	Time: 10:10	Time: 10:15	Time: 11:35
				Depth: 4'	Depth: 15'	Depth: 4'	Depth: 15'
				Comments:	Comments:	Comments:	Comments:
Antimony	0.2	32	32	NA	NA	NA	NA
Arsenic	0.1	20	24/20**	17	11	11.0	16.0
Beryllium	0.2	160	160	NA	NA	NA	NA
Cadmium	0.2	1.2	80	NA	NA	NA	NA
Chromium	0.1	120,000	120,000	NA	NA	NA	NA
Copper	0.2	36	3,200/3,000**	46	45	58	19
Lead	0.2	250	250***	NA	NA	NA	NA
Mercury	0.2	0.2	24** [1]	NA	NA	NA	NA
Nickel	0.1	47.8	1600 [2]	NA	NA	NA	NA
Selenium	0.5	7.4	400	NA	NA	NA	NA
Silver	0.1	400	400	NA	NA	NA	NA
Thallium	0.2	0.7	0.8 [3]	NA	NA	NA	NA
Zinc	0.4	100.8	24000 **	NA	NA	NA	NA

Notes:
All results expressed in milligrams per kilogram (mg/kg)
* based on April 1, 2011 updated CLARC value
** Based on the cleanup criteria per the 2016 Phase II reports for Parcels A, D and E
NA = not analyzed
MRL = Laboratory Method Reporting Limit
Bold = Non-detection value of analyte in exceedance of preliminary screening level.
Analyte detected above MRL and Preliminary Screening Level

a=Based on the January 2023 CLARC non-cancer value, except when noted otherwise; mostly matches 2016 Parcel A, D, E levels.
*** Method A 2023 CUL (there is no Method B 2023 CUL)
[1] Mercury CUL = Method B CUL for mercuric chloride as there is no 2023 Method B CUL for elemental/metallic mercury.
[2] Nickel CUL = Method B CUL for nickel soluble salts as there is no 2023 Method B CUL for elemental/metallic nickel.
[3] Thallium CUL = Method B CUL for thallium soluable salts as there is no 2023 Method B CUL for elemental/metallic thallium.

Table 2d. Laboratory Data for Soil
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270

Analyte	Soil MRL mg/kg	Preliminary Screening Level (mg/kg)*	Method B Direct Contact Cleanup Level (mg/kg)[b]	Sample ID: MW-7R-(4')	Sample ID: MW-7R-(15')	Sample ID: MW-20R-(4')	Sample ID: MW-20R-(15')
				Date: 12/12/2022	**Date: 12/12/2022**	**Date: 12/12/2022**	**Date: 12/12/2022**
				Time: 9:30	**Time: 10:10**	**Time: 10:15**	**Time: 11:35**
				Depth: 4'	**Depth: 15'**	**Depth: 4'**	**Depth: 15'**
				Comments:	**Comments:**	**Comments:**	**Comments:**
Acenaphthene	0.1	65.5	4,800**	62.0	6.100	ND(<0.1)	ND(<0.1)
Acenaphthylene	0.1	0.1	NE	**ND(<2.0)**	**ND(<1.0)**	**ND(<0.1)**	**ND(<0.1)**
Anthracene	0.1	12,285.40	24,000**	56.0	14.0	0.22	ND(<0.1)
Benzo(a)anthracene	0.08	TEQ	TEQ	55.0	17.0	0.2	ND(<0.08)
benzo(a)pyrene	0.08	TEQ	TEQ	47.0	16.0	0.29	ND(<0.08)
benzo(b)fluoranthene	0.08	TEQ	TEQ	5.2	16.0	0.3	ND(<0.08)
Benzo(g,h,i)perylene	0.08	0.08	TEQ	ND(<2.0)	9.5	0.32	ND(<0.1)
benzo(k)fluoranthene	0.08	TEQ	TEQ	12.0	9.8	0.21	ND(<0.08)
Chrysene	0.08	TEQ	TEQ	64.0	19.0	0.23	ND(<0.08)
Dibenzo(a,h)anthracene	0.08	TEQ	TEQ	ND(<2.0)	2.2	ND(<0.08)	ND(<0.08)
Fluoranthene	0.1	88.9	3,200**	150.0	30.0	0.400	ND(<0.1)
Fluorene	0.1	546.7	3,200**	39.0	7.3	ND(<0.1)	ND(<0.1)
Indeno(1,2,3-cd)pyrene	0.08	TEQ	TEQ	ND(<2.0)	9.1	0.23	ND(<0.08)
Naphthalene	0.1	138	1,600**	52.0	17.0	ND(<0.1)	ND(<0.1)
Phenanthrene	0.1	0.1	24,000**	220.0	35.0	0.23	**ND(<0.1)**
Pyrene	0.1	2,400	2,400**	170.0	33.0	0.470	ND(<0.1)
TEQ[a]	--	--	0.19	55.1	21.60	0.3903	0.0604

Notes:

All results expressed in milligrams per kilogram (mg/kg)

* based on April 1, 2011 updated CLARC value

** Based on the cleanup criteria per the 2016 Phase II reports for Parcels A, D and E. The TEQ from that report is 0.14 mg/kg; applying this lower criteria will increase the number of sample exceedances for Parcels B and C by 9.

MRL = Laboratory Method Reporting Limit

Bold = Non-detection value of analyte in exceedance of preliminary screening level.

Analyte detected above MRL and Preliminary Screening Level

Analyte detected above Method B Cleanup Level

[a] = TEQ values calculated using Ecology's published guidance "Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures Using Toxicity Equivalency Factors." Available at https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf. For ND values, one-half of the detection limit was used for calculation of the TEQ.

b= Based on the January 2023 CLARC non-cancer value, except when noted otherwise

All PAHs were analyzed by methods SW8270 and SW8270ESIM in samples MW-7R-(4') and MW-7R-(15'). The highest of the two values was reported

November 19, 2024

ATTACHMENT A

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY DOCUMENTATION

TC Systems Site

Monitoring Well Replacement and Groundwater Monitoring Event

January 16, 2023

Mr. Marc Sauze
Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

Dear Mr. Sauze,

On December 12th, 4 samples were received by our laboratory and assigned our laboratory project number EV22120074. The project was identified as your 185751414 - TC Systems. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-01
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 9:30:00 AM
CLIENT SAMPLE ID	MW-7R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**1500**	200	10	MG/KG	12/16/2022	DHM
TPH-Oil Range	NWTPH-DX	**750**	500	10	MG/KG	12/16/2022	DHM
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	**12000**	2000	100	UG/KG	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	**6600**	2000	100	UG/KG	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	**8700**	2000	100	UG/KG	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	10000	100	UG/KG	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	**18000**	2000	100	UG/KG	01/04/2023	DBA
Anthracene	EPA-8270 SIM	**23000**	2000	100	UG/KG	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	5000	100	UG/KG	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	**24000**	2000	100	UG/KG	01/04/2023	DBA
Pyrene	EPA-8270 SIM	**22000**	2000	100	UG/KG	01/04/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**14000**	2000	100	UG/KG	01/04/2023	DBA
Chrysene	EPA-8270 SIM	**17000**	2000	100	UG/KG	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**5200**	2000	100	UG/KG	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**12000**	2000	100	UG/KG	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**4800**	2000	100	UG/KG	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	**17000**	2000	100	UG/KG	01/04/2023	DBA
Total PAH	EPA-8270 SIM	**170000**	2000	100	UG/KG	01/04/2023	DBA
Pyridine	EPA-8270	U	20000	100	UG/KG	01/13/2023	DBA
N-Nitrosodimethylamine	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Phenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Aniline	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
2-Chlorophenol	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
1,3-Dichlorobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
1,4-Dichlorobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzyl Alcohol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
1,2-Dichlorobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2-Methylphenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

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CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-01
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 9:30:00 AM
CLIENT SAMPLE ID	MW-7R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
3&4-Methylphenol	EPA-8270	U	11000	100	UG/KG	01/13/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
Hexachloroethane	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Nitrobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Isophorone	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2-Nitrophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2,4-Dimethylphenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzoic Acid	EPA-8270	U	1.00E+05	100	UG/KG	01/13/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
2,4-Dichlorophenol	EPA-8270	U	50000	100	UG/KG	01/13/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Naphthalene	EPA-8270	**52000**	10000	100	UG/KG	01/13/2023	DBA
4-Chloroaniline	EPA-8270	U	1.00E+05	100	UG/KG	01/13/2023	DBA
2,6-Dichlorophenol	EPA-8270	U	26000	100	UG/KG	01/13/2023	DBA
Hexachlorobutadiene	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	U	50000	100	UG/KG	01/13/2023	DBA
2-Methylnaphthalene	EPA-8270	**37000**	25000	100	UG/KG	01/13/2023	DBA
1-Methylnaphthalene	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2-Chloronaphthalene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2-Nitroaniline	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Acenaphthylene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Dimethylphthalate	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2,6-Dinitrotoluene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Acenaphthene	EPA-8270	**62000**	10000	100	UG/KG	01/13/2023	DBA
3-Nitroaniline	EPA-8270	U	1.00E+05	100	UG/KG	01/13/2023	DBA
2,4-Dinitrophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
4-Nitrophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Dibenzofuran	EPA-8270	**17000**	11000	100	UG/KG	01/13/2023	DBA
2,4-Dinitrotoluene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Diethylphthalate	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Fluorene	EPA-8270	**39000**	10000	100	UG/KG	01/13/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	U	11000	100	UG/KG	01/13/2023	DBA
4-Nitroaniline	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	U	50000	100	UG/KG	01/13/2023	DBA

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CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 9:30:00 AM
CLIENT SAMPLE ID	MW-7R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
N-Nitrosodiphenylamine	EPA-8270	U	57000	100	UG/KG	01/13/2023	DBA
Azobenzene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Hexachlorobenzene	EPA-8270	U	11000	100	UG/KG	01/13/2023	DBA
Pentachlorophenol	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
Phenanthrene	EPA-8270	**220000**	11000	100	UG/KG	01/13/2023	DBA
Anthracene	EPA-8270	**56000**	10000	100	UG/KG	01/13/2023	DBA
Carbazole	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
Di-N-Butylphthalate	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Fluoranthene	EPA-8270	**150000**	11000	100	UG/KG	01/13/2023	DBA
Pyrene	EPA-8270	**170000**	20000	100	UG/KG	01/13/2023	DBA
Butylbenzylphthalate	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
3,3-Dichlorobenzidine	EPA-8270	U	25000	100	UG/KG	01/13/2023	DBA
Benzo[A]Anthracene	EPA-8270	**55000**	10000	100	UG/KG	01/13/2023	DBA
Chrysene	EPA-8270	**64000**	10000	100	UG/KG	01/13/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	11000	100	UG/KG	01/13/2023	DBA
Di-N-Octylphthalate	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzo[B]Fluoranthene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzo[K]Fluoranthene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzo[A]Pyrene	EPA-8270	**47000**	10000	100	UG/KG	01/13/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270	U	10000	100	UG/KG	01/13/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270	U	11000	100	UG/KG	01/13/2023	DBA
Arsenic	EPA-6020	**17**	0.10	1	MG/KG	12/19/2022	EBS
Copper	EPA-6020	**46**	0.20	1	MG/KG	12/19/2022	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 10X Dilution	NWTPH-DX	**1010 SUR08**	12/16/2022	DHM
2,4,6-Tribromophenol 100X Dilution	EPA-8270 SIM	U, S	01/04/2023	DBA
Terphenyl-d14 100X Dilution	EPA-8270 SIM	**43.3**	01/04/2023	DBA
2-Fluorophenol 100X Dilution	EPA-8270	**134 S**	01/13/2023	DBA
Phenol-d5 100X Dilution	EPA-8270	**135**	01/13/2023	DBA
Nitrobenzene-d5 100X Dilution	EPA-8270	**109**	01/13/2023	DBA
2-Fluorobiphenyl 100X Dilution	EPA-8270	**141 S**	01/13/2023	DBA
2,4,6-Tribromophenol 100X Dilution	EPA-8270	**88.9**	01/13/2023	DBA
Terphenyl-d14 100X Dilution	EPA-8270	**161 S**	01/13/2023	DBA

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CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 9:30:00 AM
CLIENT SAMPLE ID	MW-7R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
SUR08 -Surrogate recoveries were outside of the control limits due to matrix interference.
S - Outside of control limits.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-02
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:10:00 AM
CLIENT SAMPLE ID	MW-7R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**920**	200	10	MG/KG	12/16/2022	DHM
TPH-Oil Range	NWTPH-DX	**780**	500	10	MG/KG	12/16/2022	DHM
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	**14000**	2000	100	UG/KG	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	**4200**	2000	100	UG/KG	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	**5800**	2000	100	UG/KG	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	10000	100	UG/KG	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	**7800**	2000	100	UG/KG	01/04/2023	DBA
Anthracene	EPA-8270 SIM	**14000**	2000	100	UG/KG	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	5000	100	UG/KG	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	**16000**	2000	100	UG/KG	01/04/2023	DBA
Pyrene	EPA-8270 SIM	**17000**	2000	100	UG/KG	01/04/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**13000**	2000	100	UG/KG	01/04/2023	DBA
Chrysene	EPA-8270 SIM	**16000**	2000	100	UG/KG	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**5900**	2000	100	UG/KG	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**9800**	2000	100	UG/KG	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**4600**	2000	100	UG/KG	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	2000	100	UG/KG	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	**16000**	2000	100	UG/KG	01/04/2023	DBA
Total PAH	EPA-8270 SIM	**130000**	2000	100	UG/KG	01/04/2023	DBA
Pyridine	EPA-8270	U	2000	10	UG/KG	01/13/2023	DBA
N-Nitrosodimethylamine	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Phenol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Aniline	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
2-Chlorophenol	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
1,3-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
1,4-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Benzyl Alcohol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
1,2-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
2-Methylphenol	EPA-8270	U	1200	10	UG/KG	01/13/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-02
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:10:00 AM
CLIENT SAMPLE ID	MW-7R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3&4-Methylphenol	EPA-8270	U	1300	10	UG/KG	01/13/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
Hexachloroethane	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Nitrobenzene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Isophorone	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
2-Nitrophenol	EPA-8270	U	1200	10	UG/KG	01/13/2023	DBA
2,4-Dimethylphenol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Benzoic Acid	EPA-8270	U	12000	10	UG/KG	01/13/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
2,4-Dichlorophenol	EPA-8270	U	5000	10	UG/KG	01/13/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Naphthalene	EPA-8270	**17000**	1000	10	UG/KG	01/13/2023	DBA
4-Chloroaniline	EPA-8270	U	10000	10	UG/KG	01/13/2023	DBA
2,6-Dichlorophenol	EPA-8270	U	3000	10	UG/KG	01/13/2023	DBA
Hexachlorobutadiene	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	U	5200	10	UG/KG	01/13/2023	DBA
2-Methylnaphthalene	EPA-8270	**5900**	2500	10	UG/KG	01/13/2023	DBA
1-Methylnaphthalene	EPA-8270	**4200**	2800	10	UG/KG	01/13/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
2-Chloronaphthalene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
2-Nitroaniline	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Acenaphthylene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Dimethylphthalate	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
2,6-Dinitrotoluene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Acenaphthene	EPA-8270	**6100**	1000	10	UG/KG	01/13/2023	DBA
3-Nitroaniline	EPA-8270	U	10000	10	UG/KG	01/13/2023	DBA
2,4-Dinitrophenol	EPA-8270	U	1200	10	UG/KG	01/13/2023	DBA
4-Nitrophenol	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Dibenzofuran	EPA-8270	**3900**	1200	10	UG/KG	01/13/2023	DBA
2,4-Dinitrotoluene	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Diethylphthalate	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Fluorene	EPA-8270	**7300**	1200	10	UG/KG	01/13/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	U	1200	10	UG/KG	01/13/2023	DBA
4-Nitroaniline	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	U	5000	10	UG/KG	01/13/2023	DBA
N-Nitrosodiphenylamine	EPA-8270	U	6500	10	UG/KG	01/13/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-02
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:10:00 AM
CLIENT SAMPLE ID	MW-7R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Azobenzene	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Hexachlorobenzene	EPA-8270	U	1300	10	UG/KG	01/13/2023	DBA
Pentachlorophenol	EPA-8270	U	2500	10	UG/KG	01/13/2023	DBA
Phenanthrene	EPA-8270	**35000**	1300	10	UG/KG	01/13/2023	DBA
Anthracene	EPA-8270	**9700**	1100	10	UG/KG	01/13/2023	DBA
Carbazole	EPA-8270	**3900**	2500	10	UG/KG	01/13/2023	DBA
Di-N-Butylphthalate	EPA-8270	U	1000	10	UG/KG	01/13/2023	DBA
Fluoranthene	EPA-8270	**30000**	1300	10	UG/KG	01/13/2023	DBA
Pyrene	EPA-8270	**33000**	2000	10	UG/KG	01/13/2023	DBA
Butylbenzylphthalate	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
3,3-Dichlorobenzidine	EPA-8270	U	2700	10	UG/KG	01/13/2023	DBA
Benzo[A]Anthracene	EPA-8270	**17000**	1000	10	UG/KG	01/13/2023	DBA
Chrysene	EPA-8270	**19000**	1200	10	UG/KG	01/13/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	1300	10	UG/KG	01/13/2023	DBA
Di-N-Octylphthalate	EPA-8270	U	1100	10	UG/KG	01/13/2023	DBA
Benzo[B]Fluoranthene	EPA-8270	**16000**	1100	10	UG/KG	01/13/2023	DBA
Benzo[K]Fluoranthene	EPA-8270	**6100**	1100	10	UG/KG	01/13/2023	DBA
Benzo[A]Pyrene	EPA-8270	**16000**	1000	10	UG/KG	01/13/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270	**9100**	1000	10	UG/KG	01/13/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270	**2200**	1000	10	UG/KG	01/13/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270	**9500**	1200	10	UG/KG	01/13/2023	DBA
Arsenic	EPA-6020	**11**	0.10	1	MG/KG	12/19/2022	EBS
Copper	EPA-6020	**45**	0.20	1	MG/KG	12/19/2022	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 10X Dilution	NWTPH-DX	**340 SUR08**	12/16/2022	DHM
2,4,6-Tribromophenol 100X Dilution	EPA-8270 SIM	U, S	01/04/2023	DBA
Terphenyl-d14 100X Dilution	EPA-8270 SIM	**45.4**	01/04/2023	DBA
2-Fluorophenol 10X Dilution	EPA-8270	**83.9**	01/13/2023	DBA
Phenol-d5 10X Dilution	EPA-8270	**95.5**	01/13/2023	DBA
Nitrobenzene-d5 10X Dilution	EPA-8270	**69.4**	01/13/2023	DBA
2-Fluorobiphenyl 10X Dilution	EPA-8270	**80.3**	01/13/2023	DBA
2,4,6-Tribromophenol 10X Dilution	EPA-8270	**67.3**	01/13/2023	DBA
Terphenyl-d14 10X Dilution	EPA-8270	**81.5**	01/13/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.
SUR08 -Surrogate recoveries were outside of the control limits due to matrix interference.
S - Outside of control limits.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-03
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:15:00 AM
CLIENT SAMPLE ID	MW-20R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**54**	20	1	MG/KG	12/16/2022	DHM
TPH-Oil Range	NWTPH-DX	**130**	50	1	MG/KG	12/16/2022	DHM
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	**230**	100	1	UG/KG	01/04/2023	DBA
Anthracene	EPA-8270 SIM	**220**	100	1	UG/KG	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	50	1	UG/KG	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	**400**	100	1	UG/KG	01/04/2023	DBA
Pyrene	EPA-8270 SIM	**470**	100	1	UG/KG	01/04/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**200**	80	1	UG/KG	01/04/2023	DBA
Chrysene	EPA-8270 SIM	**230**	80	1	UG/KG	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**300**	80	1	UG/KG	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**210**	80	1	UG/KG	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**290**	80	1	UG/KG	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**230**	80	1	UG/KG	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	**320**	100	1	UG/KG	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	**520**	3.8	1	UG/KG	01/04/2023	DBA
Total PAH	EPA-8270 SIM	**3300**	0	1	UG/KG	01/04/2023	DBA
Phenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Aniline	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2-Chlorophenol	EPA-8270	U	150	1	UG/KG	01/16/2023	DBA
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2-Methylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	U	140	1	UG/KG	01/16/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-03
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:15:00 AM
CLIENT SAMPLE ID	MW-20R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachloroethane	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Nitrobenzene	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Isophorone	EPA-8270	U	110	1	UG/KG	01/16/2023	DBA
2-Nitrophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Benzoic Acid	EPA-8270	U	1100	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	U	180	1	UG/KG	01/16/2023	DBA
2,4-Dichlorophenol	EPA-8270	U	370	1	UG/KG	01/16/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	U	110	1	UG/KG	01/16/2023	DBA
4-Chloroaniline	EPA-8270	U	860	1	UG/KG	01/16/2023	DBA
Hexachlorobutadiene	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2-Nitroaniline	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
3-Nitroaniline	EPA-8270	U	880	1	UG/KG	01/16/2023	DBA
2,4-Dinitrophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Dibenzofuran	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Diethylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Azobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Pentachlorophenol	EPA-8270	U	220	1	UG/KG	01/16/2023	DBA
Carbazole	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Arsenic	EPA-6020	**11**	0.10	1	MG/KG	12/19/2022	EBS
Copper	EPA-6020	**58**	0.20	1	MG/KG	12/19/2022	EBS

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-03
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 10:15:00 AM
CLIENT SAMPLE ID	MW-20R-(4')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**122**	12/16/2022	DHM
2,4,6-Tribromophenol	EPA-8270 SIM	**103**	01/04/2023	DBA
Terphenyl-d14	EPA-8270 SIM	**87.2**	01/04/2023	DBA
2-Fluorophenol	EPA-8270	**117**	01/16/2023	DBA
Phenol-d5	EPA-8270	**104**	01/16/2023	DBA
Nitrobenzene-d5	EPA-8270	**78.6**	01/16/2023	DBA
2-Fluorobiphenyl	EPA-8270	**63.5**	01/16/2023	DBA
2,4,6-Tribromophenol	EPA-8270	**58.0**	01/16/2023	DBA
Terphenyl-d14	EPA-8270	**57.0**	01/16/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-04
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 11:35:00 AM
CLIENT SAMPLE ID	MW-20R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**23**	20	1	MG/KG	12/16/2022	DHM
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	12/16/2022	DHM
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	20	1	UG/KG	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Anthracene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	50	1	UG/KG	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Pyrene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Chrysene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	80	1	UG/KG	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	100	1	UG/KG	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	U	3.4	1	UG/KG	01/04/2023	DBA
Total PAH	EPA-8270 SIM	**310**	0	1	UG/KG	01/04/2023	DBA
Phenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Aniline	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2-Chlorophenol	EPA-8270	U	120	1	UG/KG	01/16/2023	DBA
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2-Methylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	U	120	1	UG/KG	01/16/2023	DBA

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-04
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 11:35:00 AM
CLIENT SAMPLE ID	MW-20R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachloroethane	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Nitrobenzene	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Isophorone	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2-Nitrophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	01/16/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	U	150	1	UG/KG	01/16/2023	DBA
2,4-Dichlorophenol	EPA-8270	U	310	1	UG/KG	01/16/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4-Chloroaniline	EPA-8270	U	720	1	UG/KG	01/16/2023	DBA
Hexachlorobutadiene	EPA-8270	U	170	1	UG/KG	01/16/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2-Nitroaniline	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
3-Nitroaniline	EPA-8270	U	740	1	UG/KG	01/16/2023	DBA
2,4-Dinitrophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Dibenzofuran	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Diethylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Azobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Pentachlorophenol	EPA-8270	U	200	1	UG/KG	01/16/2023	DBA
Carbazole	EPA-8270	U	500	1	UG/KG	01/16/2023	DBA
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	01/16/2023	DBA
Arsenic	EPA-6020	**16**	0.10	1	MG/KG	12/19/2022	EBS
Copper	EPA-6020	**19**	0.20	1	MG/KG	12/19/2022	EBS

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	1/16/2023 EV22120074 EV22120074-04
CLIENT CONTACT:	Marc Sauze	DATE RECEIVED:	12/12/2022
CLIENT PROJECT:	185751414 - TC Systems	COLLECTION DATE:	12/12/2022 11:35:00 AM
CLIENT SAMPLE ID	MW-20R-(15')	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**108**	12/16/2022	DHM
2,4,6-Tribromophenol	EPA-8270 SIM	**130**	01/04/2023	DBA
Terphenyl-d14	EPA-8270 SIM	**97.0**	01/04/2023	DBA
2-Fluorophenol	EPA-8270	**123 S**	01/16/2023	DBA
Phenol-d5	EPA-8270	**147 S**	01/16/2023	DBA
Nitrobenzene-d5	EPA-8270	**107**	01/16/2023	DBA
2-Fluorobiphenyl	EPA-8270	**113**	01/16/2023	DBA
2,4,6-Tribromophenol	EPA-8270	**104**	01/16/2023	DBA
Terphenyl-d14	EPA-8270	**103**	01/16/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.
S - Outside of control limits.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.

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CERTIFICATE OF ANALYSIS

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11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004
CLIENT CONTACT: Marc Sauze
CLIENT PROJECT: 185751414 - TC Systems

DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-121622S - Batch 187543 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	20	12/16/2022	DHM
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	12/16/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122322S - Batch 188143 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Naphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Acenaphthylene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Acenaphthene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Dibenzofuran	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Fluorene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Hexachlorobenzene	EPA-8270 SIM	U	UG/KG	20	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Pentachlorophenol	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Phenanthrene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Anthracene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Anthracene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	UG/KG	50	01/04/2023	DBA
Carbazole	EPA-8270 SIM	U	UG/KG	50	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Fluoranthene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Pyrene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Pyrene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT: Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004
CLIENT CONTACT: Marc Sauze
CLIENT PROJECT: 185751414 - TC Systems

DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-122322S - Batch 188143 - Soil by EPA-8270 SIM

Benzo[A]Anthracene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Chrysene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Chrysene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	UG/KG	80	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	UG/KG	100	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	U	UG/KG	3.6	01/04/2023	DBA
Total Benzofluoranthenes	EPA-8270 SIM	U	UG/KG	3.6	01/04/2023	DBA
Total PAH	EPA-8270 SIM	U	UG/KG	0.0	01/04/2023	DBA
Total PAH	EPA-8270 SIM	U	UG/KG	0.0	01/04/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122322S - Batch 188456 - Soil by EPA-8270

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	UG/KG	200	01/13/2023	DBA
N-Nitrosodimethylamine	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Phenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
Aniline	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	U	UG/KG	200	01/13/2023	DBA
2-Chlorophenol	EPA-8270	U	UG/KG	120	01/13/2023	DBA
1,3-Dichlorobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
1,4-Dichlorobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzyl Alcohol	EPA-8270	U	UG/KG	100	01/13/2023	DBA
1,2-Dichlorobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2-Methylphenol	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	UG/KG	200	01/13/2023	DBA
3&4-Methylphenol	EPA-8270	U	UG/KG	100	01/13/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	U	UG/KG	120	01/13/2023	DBA
Hexachloroethane	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Nitrobenzene	EPA-8270	U	UG/KG	200	01/13/2023	DBA
Isophorone	EPA-8270	U	UG/KG	100	01/13/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT: Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004
CLIENT CONTACT: Marc Sauze
CLIENT PROJECT: 185751414 - TC Systems

DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-122322S - Batch 188456 - Soil by EPA-8270

2-Nitrophenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
2,4-Dimethylphenol	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzoic Acid	EPA-8270	U	UG/KG	1000	01/13/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	U	UG/KG	150	01/13/2023	DBA
2,4-Dichlorophenol	EPA-8270	U	UG/KG	310	01/13/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Naphthalene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
4-Chloroaniline	EPA-8270	U	UG/KG	710	01/13/2023	DBA
2,6-Dichlorophenol	EPA-8270	U	UG/KG	250	01/13/2023	DBA
Hexachlorobutadiene	EPA-8270	U	UG/KG	160	01/13/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	U	UG/KG	500	01/13/2023	DBA
2-Methylnaphthalene	EPA-8270	U	UG/KG	190	01/13/2023	DBA
1-Methylnaphthalene	EPA-8270	U	UG/KG	220	01/13/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
2-Chloronaphthalene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2-Nitroaniline	EPA-8270	U	UG/KG	500	01/13/2023	DBA
Acenaphthylene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Dimethylphthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2,6-Dinitrotoluene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Acenaphthene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
3-Nitroaniline	EPA-8270	U	UG/KG	720	01/13/2023	DBA
2,4-Dinitrophenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
4-Nitrophenol	EPA-8270	U	UG/KG	500	01/13/2023	DBA
Dibenzofuran	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2,4-Dinitrotoluene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Diethylphthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Fluorene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	U	UG/KG	100	01/13/2023	DBA
4-Nitroaniline	EPA-8270	U	UG/KG	250	01/13/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	U	UG/KG	290	01/13/2023	DBA
N-Nitrosodiphenylamine	EPA-8270	U	UG/KG	500	01/13/2023	DBA
Azobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Hexachlorobenzene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Pentachlorophenol	EPA-8270	U	UG/KG	200	01/13/2023	DBA
Phenanthrene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Anthracene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Carbazole	EPA-8270	U	UG/KG	500	01/13/2023	DBA

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LABORATORY BLANK RESULTS

MB-122322S - Batch 188456 - Soil by EPA-8270

Di-N-Butylphthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Fluoranthene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Pyrene	EPA-8270	U	UG/KG	150	01/13/2023	DBA
Butylbenzylphthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
3,3-Dichlorobenzidine	EPA-8270	U	UG/KG	250	01/13/2023	DBA
Benzo[A]Anthracene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Chrysene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Di-N-Octylphthalate	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzo[B]Fluoranthene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzo[K]Fluoranthene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzo[A]Pyrene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270	U	UG/KG	100	01/13/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270	U	UG/KG	100	01/13/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121722S - Batch 187518 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.10	12/19/2022	EBS
Copper	EPA-6020	U	MG/KG	0.20	12/19/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	1/16/2023
		ALS SDG#:	EV22120074
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Marc Sauze		
CLIENT PROJECT:	185751414 - TC Systems		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 187543 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**103**			75.5	122.1	12/16/2022	DHM
TPH-Diesel Range - BSD	NWTPH-DX	**101**	**1**		75.5	122.1	12/16/2022	DHM

ALS Test Batch ID: 188143 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Bis(2-Chloroethyl)Ether - BS	EPA-8270 SIM	**105**			20	150	01/04/2023	DBA
Bis(2-Chloroethyl)Ether - BSD	EPA-8270 SIM	**132**	**22**		20	150	01/04/2023	DBA
Naphthalene - BS	EPA-8270 SIM	**112**			20	150	01/04/2023	DBA
Naphthalene - BSD	EPA-8270 SIM	**119**	**7**		20	150	01/04/2023	DBA
2-Methylnaphthalene - BS	EPA-8270 SIM	**101**			20	150	01/04/2023	DBA
2-Methylnaphthalene - BSD	EPA-8270 SIM	**110**	**8**		20	150	01/04/2023	DBA
1-Methylnaphthalene - BS	EPA-8270 SIM	**109**			20	150	01/04/2023	DBA
1-Methylnaphthalene - BSD	EPA-8270 SIM	**116**	**6**		20	150	01/04/2023	DBA
Acenaphthylene - BS	EPA-8270 SIM	**113**			20	150	01/04/2023	DBA
Acenaphthylene - BSD	EPA-8270 SIM	**116**	**3**		20	150	01/04/2023	DBA
Acenaphthene - BS	EPA-8270 SIM	**101**			41	107	01/04/2023	DBA
Acenaphthene - BSD	EPA-8270 SIM	**106**	**4**		41	107	01/04/2023	DBA
Dibenzofuran - BS	EPA-8270 SIM	**109**			20	150	01/04/2023	DBA
Dibenzofuran - BSD	EPA-8270 SIM	**113**	**4**		20	150	01/04/2023	DBA
Fluorene - BS	EPA-8270 SIM	**111**			20	150	01/04/2023	DBA
Fluorene - BSD	EPA-8270 SIM	**113**	**2**		20	150	01/04/2023	DBA
Hexachlorobenzene - BS	EPA-8270 SIM	**116**			20	150	01/04/2023	DBA
Hexachlorobenzene - BSD	EPA-8270 SIM	**119**	**3**		20	150	01/04/2023	DBA
Pentachlorophenol - BS	EPA-8270 SIM	**59.9**			33	124	01/04/2023	DBA
Pentachlorophenol - BSD	EPA-8270 SIM	**76.1**	**24**		33	124	01/04/2023	DBA
Phenanthrene - BS	EPA-8270 SIM	**100**			20	150	01/04/2023	DBA
Phenanthrene - BSD	EPA-8270 SIM	**106**	**6**		20	150	01/04/2023	DBA
Anthracene - BS	EPA-8270 SIM	**109**			20	150	01/04/2023	DBA
Anthracene - BSD	EPA-8270 SIM	**104**	**4**		20	150	01/04/2023	DBA
Carbazole - BS	EPA-8270 SIM	**109**			20	150	01/04/2023	DBA
Carbazole - BSD	EPA-8270 SIM	**123**	**12**		20	150	01/04/2023	DBA
Fluoranthene - BS	EPA-8270 SIM	**121**			20	150	01/04/2023	DBA
Fluoranthene - BSD	EPA-8270 SIM	**126**	**3**		20	150	01/04/2023	DBA
Pyrene - BS	EPA-8270 SIM	**112**			18	136	01/04/2023	DBA
Pyrene - BSD	EPA-8270 SIM	**117**	**4**		18	136	01/04/2023	DBA
Benzo[A]Anthracene - BS	EPA-8270 SIM	**87.6**			20	150	01/04/2023	DBA
Benzo[A]Anthracene - BSD	EPA-8270 SIM	**93.1**	**6**		20	150	01/04/2023	DBA
Chrysene - BS	EPA-8270 SIM	**118**			20	150	01/04/2023	DBA

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Bellevue, WA 98004
CLIENT CONTACT: Marc Sauze
CLIENT PROJECT: 185751414 - TC Systems

DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Chrysene - BSD	EPA-8270 SIM	**121**	**3**		20	150	01/04/2023	DBA
Benzo[B]Fluoranthene - BS	EPA-8270 SIM	**77.4**			20	150	01/04/2023	DBA
Benzo[B]Fluoranthene - BSD	EPA-8270 SIM	**92.1**	**17**		20	150	01/04/2023	DBA
Benzo[K]Fluoranthene - BS	EPA-8270 SIM	**136**			20	150	01/04/2023	DBA
Benzo[K]Fluoranthene - BSD	EPA-8270 SIM	**148**	**8**		20	150	01/04/2023	DBA
Benzo[A]Pyrene - BS	EPA-8270 SIM	**104**			20	150	01/04/2023	DBA
Benzo[A]Pyrene - BSD	EPA-8270 SIM	**110**	**6**		20	150	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270 SIM	**86.4**			20	150	01/04/2023	DBA
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270 SIM	**87.3**	**1**		20	150	01/04/2023	DBA
Dibenz[A,H]Anthracene - BS	EPA-8270 SIM	**82.6**			20	150	01/04/2023	DBA
Dibenz[A,H]Anthracene - BSD	EPA-8270 SIM	**81.9**	**1**		20	150	01/04/2023	DBA
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	**81.6**			20	150	01/04/2023	DBA
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	**84.0**	**3**		20	150	01/04/2023	DBA

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14 - BS	EPA-8270 SIM	**142**		S	58	132	01/04/2023	DBA
Terphenyl-d14 - BSD	EPA-8270 SIM	**147**		S	58	132	01/04/2023	DBA

S - Outside of control limits.

ALS Test Batch ID: 188456 - Soil by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Pyridine - BS	EPA-8270	**81.6**			20	150	01/13/2023	DBA
Pyridine - BSD	EPA-8270	**76.6**	**6**		20	150	01/13/2023	DBA
N-Nitrosodimethylamine - BS	EPA-8270	**115**			20	150	01/13/2023	DBA
N-Nitrosodimethylamine - BSD	EPA-8270	**113**	**2**		20	150	01/13/2023	DBA
Phenol - BS	EPA-8270	**85.3**			36.1	131	01/13/2023	DBA
Phenol - BSD	EPA-8270	**92.1**	**8**		36.1	131	01/13/2023	DBA
Aniline - BS	EPA-8270	**110**			20	150	01/13/2023	DBA
Aniline - BSD	EPA-8270	**125**	**14**		20	150	01/13/2023	DBA
Bis(2-Chloroethyl)Ether - BS	EPA-8270	**116**			20	150	01/13/2023	DBA
Bis(2-Chloroethyl)Ether - BSD	EPA-8270	**107**	**8**		20	150	01/13/2023	DBA
2-Chlorophenol - BS	EPA-8270	**89.4**			59.9	111	01/13/2023	DBA
2-Chlorophenol - BSD	EPA-8270	**94.0**	**5**		59.9	111	01/13/2023	DBA
1,3-Dichlorobenzene - BS	EPA-8270	**80.0**			20	150	01/13/2023	DBA
1,3-Dichlorobenzene - BSD	EPA-8270	**81.2**	**1**		20	150	01/13/2023	DBA
1,4-Dichlorobenzene - BS	EPA-8270	**79.0**			44.3	122	01/13/2023	DBA
1,4-Dichlorobenzene - BSD	EPA-8270	**80.8**	**2**		44.3	122	01/13/2023	DBA
Benzyl Alcohol - BS	EPA-8270	**90.4**			20	150	01/13/2023	DBA

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CLIENT PROJECT: 185751414 - TC Systems

DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Benzyl Alcohol - BSD	EPA-8270	**97.2**	**7**		20	150	01/13/2023	DBA
1,2-Dichlorobenzene - BS	EPA-8270	**76.7**			20	150	01/13/2023	DBA
1,2-Dichlorobenzene - BSD	EPA-8270	**80.4**	**5**		20	150	01/13/2023	DBA
2-Methylphenol - BS	EPA-8270	**83.6**			20	150	01/13/2023	DBA
2-Methylphenol - BSD	EPA-8270	**89.6**	**7**		20	150	01/13/2023	DBA
Bis(2-Chloroisopropyl)Ether - BS	EPA-8270	**76.4**			20	150	01/13/2023	DBA
Bis(2-Chloroisopropyl)Ether - BSD	EPA-8270	**80.9**	**6**		20	150	01/13/2023	DBA
3&4-Methylphenol - BS	EPA-8270	**81.6**			20	150	01/13/2023	DBA
3&4-Methylphenol - BSD	EPA-8270	**88.0**	**8**		20	150	01/13/2023	DBA
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**80.6**			31.6	134	01/13/2023	DBA
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**86.2**	**7**		31.6	134	01/13/2023	DBA
Hexachloroethane - BS	EPA-8270	**73.4**			20	150	01/13/2023	DBA
Hexachloroethane - BSD	EPA-8270	**74.9**	**2**		20	150	01/13/2023	DBA
Nitrobenzene - BS	EPA-8270	**96.3**			20	150	01/13/2023	DBA
Nitrobenzene - BSD	EPA-8270	**89.8**	**7**		20	150	01/13/2023	DBA
Isophorone - BS	EPA-8270	**74.9**			20	150	01/13/2023	DBA
Isophorone - BSD	EPA-8270	**70.7**	**6**		20	150	01/13/2023	DBA
2-Nitrophenol - BS	EPA-8270	**82.9**			20	150	01/13/2023	DBA
2-Nitrophenol - BSD	EPA-8270	**77.9**	**6**		20	150	01/13/2023	DBA
2,4-Dimethylphenol - BS	EPA-8270	**86.6**			20	150	01/13/2023	DBA
2,4-Dimethylphenol - BSD	EPA-8270	**82.9**	**4**		20	150	01/13/2023	DBA
Bis(2-Chloroethoxy)Methane - BS	EPA-8270	**92.4**			20	150	01/13/2023	DBA
Bis(2-Chloroethoxy)Methane - BSD	EPA-8270	**87.2**	**6**		20	150	01/13/2023	DBA
2,4-Dichlorophenol - BS	EPA-8270	**94.7**			20	150	01/13/2023	DBA
2,4-Dichlorophenol - BSD	EPA-8270	**90.5**	**4**		20	150	01/13/2023	DBA
1,2,4-Trichlorobenzene - BS	EPA-8270	**87.4**			44.6	122	01/13/2023	DBA
1,2,4-Trichlorobenzene - BSD	EPA-8270	**83.0**	**5**		44.6	122	01/13/2023	DBA
Naphthalene - BS	EPA-8270	**84.2**			20	150	01/13/2023	DBA
Naphthalene - BSD	EPA-8270	**79.0**	**6**		20	150	01/13/2023	DBA
4-Chloroaniline - BS	EPA-8270	**47.2**			20	150	01/13/2023	DBA
4-Chloroaniline - BSD	EPA-8270	**48.0**	**2**		20	150	01/13/2023	DBA
Hexachlorobutadiene - BS	EPA-8270	**83.3**			20	150	01/13/2023	DBA
Hexachlorobutadiene - BSD	EPA-8270	**78.9**	**5**		20	150	01/13/2023	DBA
4-Chloro-3-Methylphenol - BS	EPA-8270	**93.3**			49.2	135	01/13/2023	DBA
4-Chloro-3-Methylphenol - BSD	EPA-8270	**89.5**	**4**		49.2	135	01/13/2023	DBA
2-Methylnaphthalene - BS	EPA-8270	**81.7**			20	150	01/13/2023	DBA
2-Methylnaphthalene - BSD	EPA-8270	**78.0**	**5**		20	150	01/13/2023	DBA
1-Methylnaphthalene - BS	EPA-8270	**75.9**			20	150	01/13/2023	DBA
1-Methylnaphthalene - BSD	EPA-8270	**73.6**	**3**		20	150	01/13/2023	DBA
Hexachlorocyclopentadiene - BS	EPA-8270	**127**			20	150	01/13/2023	DBA

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DATE: 1/16/2023
ALS SDG#: EV22120074
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene - BSD	EPA-8270	**124**	**3**		20	150	01/13/2023	DBA
2,4,6-Trichlorophenol - BS	EPA-8270	**92.5**			20	150	01/13/2023	DBA
2,4,6-Trichlorophenol - BSD	EPA-8270	**87.3**	**6**		20	150	01/13/2023	DBA
2,4,5-Trichlorophenol - BS	EPA-8270	**107**			20	150	01/13/2023	DBA
2,4,5-Trichlorophenol - BSD	EPA-8270	**99.2**	**7**		20	150	01/13/2023	DBA
2-Chloronaphthalene - BS	EPA-8270	**95.7**			20	150	01/13/2023	DBA
2-Chloronaphthalene - BSD	EPA-8270	**91.3**	**5**		20	150	01/13/2023	DBA
2-Nitroaniline - BS	EPA-8270	**93.6**			20	150	01/13/2023	DBA
2-Nitroaniline - BSD	EPA-8270	**86.5**	**8**		20	150	01/13/2023	DBA
Acenaphthylene - BS	EPA-8270	**93.7**			20	150	01/13/2023	DBA
Acenaphthylene - BSD	EPA-8270	**89.3**	**5**		20	150	01/13/2023	DBA
Dimethylphthalate - BS	EPA-8270	**93.5**			20	150	01/13/2023	DBA
Dimethylphthalate - BSD	EPA-8270	**86.5**	**8**		20	150	01/13/2023	DBA
2,6-Dinitrotoluene - BS	EPA-8270	**90.0**			20	150	01/13/2023	DBA
2,6-Dinitrotoluene - BSD	EPA-8270	**84.1**	**7**		20	150	01/13/2023	DBA
Acenaphthene - BS	EPA-8270	**89.9**			49.3	117	01/13/2023	DBA
Acenaphthene - BSD	EPA-8270	**85.2**	**5**		49.3	117	01/13/2023	DBA
3-Nitroaniline - BS	EPA-8270	**58.6**			20	150	01/13/2023	DBA
3-Nitroaniline - BSD	EPA-8270	**62.9**	**7**		20	150	01/13/2023	DBA
2,4-Dinitrophenol - BS	EPA-8270	**112**			20	150	01/13/2023	DBA
2,4-Dinitrophenol - BSD	EPA-8270	**105**	**6**		20	150	01/13/2023	DBA
4-Nitrophenol - BS	EPA-8270	**99.8**			29.8	137	01/13/2023	DBA
4-Nitrophenol - BSD	EPA-8270	**93.8**	**6**		29.8	137	01/13/2023	DBA
Dibenzofuran - BS	EPA-8270	**89.8**			20	150	01/13/2023	DBA
Dibenzofuran - BSD	EPA-8270	**85.4**	**5**		20	150	01/13/2023	DBA
2,4-Dinitrotoluene - BS	EPA-8270	**89.7**			55.3	130	01/13/2023	DBA
2,4-Dinitrotoluene - BSD	EPA-8270	**82.5**	**8**		55.3	130	01/13/2023	DBA
2,3,4,6-Tetrachlorophenol - BS	EPA-8270	**83.3**			20	150	01/13/2023	DBA
2,3,4,6-Tetrachlorophenol - BSD	EPA-8270	**78.9**	**5**		20	150	01/13/2023	DBA
Diethylphthalate - BS	EPA-8270	**92.2**			20	150	01/13/2023	DBA
Diethylphthalate - BSD	EPA-8270	**84.2**	**9**		20	150	01/13/2023	DBA
Fluorene - BS	EPA-8270	**91.6**			20	150	01/13/2023	DBA
Fluorene - BSD	EPA-8270	**85.0**	**7**		20	150	01/13/2023	DBA
4-Chlorophenyl-Phenylether - BS	EPA-8270	**92.8**			20	150	01/13/2023	DBA
4-Chlorophenyl-Phenylether - BSD	EPA-8270	**85.4**	**8**		20	150	01/13/2023	DBA
4-Nitroaniline - BS	EPA-8270	**71.1**			20	150	01/13/2023	DBA
4-Nitroaniline - BSD	EPA-8270	**71.0**	**0**		20	150	01/13/2023	DBA
4,6-Dinitro-2-Methylphenol - BS	EPA-8270	**97.5**			20	150	01/13/2023	DBA
4,6-Dinitro-2-Methylphenol - BSD	EPA-8270	**93.1**	**5**		20	150	01/13/2023	DBA
Azobenzene - BS	EPA-8270	**94.4**			20	150	01/13/2023	DBA

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LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Azobenzene - BSD	EPA-8270	**91.6**	**3**		20	150	01/13/2023	DBA
4-Bromophenyl-Phenylether - BS	EPA-8270	**94.4**			20	150	01/13/2023	DBA
4-Bromophenyl-Phenylether - BSD	EPA-8270	**88.5**	**6**		20	150	01/13/2023	DBA
Hexachlorobenzene - BS	EPA-8270	**90.1**			20	150	01/13/2023	DBA
Hexachlorobenzene - BSD	EPA-8270	**84.2**	**7**		20	150	01/13/2023	DBA
Pentachlorophenol - BS	EPA-8270	**86.7**			41.3	113	01/13/2023	DBA
Pentachlorophenol - BSD	EPA-8270	**86.5**	**0**		41.3	113	01/13/2023	DBA
Phenanthrene - BS	EPA-8270	**91.8**			20	150	01/13/2023	DBA
Phenanthrene - BSD	EPA-8270	**86.9**	**5**		20	150	01/13/2023	DBA
Anthracene - BS	EPA-8270	**94.0**			20	150	01/13/2023	DBA
Anthracene - BSD	EPA-8270	**88.2**	**6**		20	150	01/13/2023	DBA
Carbazole - BS	EPA-8270	**99.1**			20	150	01/13/2023	DBA
Carbazole - BSD	EPA-8270	**92.8**	**7**		20	150	01/13/2023	DBA
Di-N-Butylphthalate - BS	EPA-8270	**94.9**			20	150	01/13/2023	DBA
Di-N-Butylphthalate - BSD	EPA-8270	**90.1**	**5**		20	150	01/13/2023	DBA
Fluoranthene - BS	EPA-8270	**91.9**			20	150	01/13/2023	DBA
Fluoranthene - BSD	EPA-8270	**87.6**	**5**		20	150	01/13/2023	DBA
Pyrene - BS	EPA-8270	**89.7**			57.4	145	01/13/2023	DBA
Pyrene - BSD	EPA-8270	**83.2**	**8**		57.4	145	01/13/2023	DBA
Butylbenzylphthalate - BS	EPA-8270	**94.0**			20	150	01/13/2023	DBA
Butylbenzylphthalate - BSD	EPA-8270	**88.5**	**6**		20	150	01/13/2023	DBA
Benzo[A]Anthracene - BS	EPA-8270	**89.3**			20	150	01/13/2023	DBA
Benzo[A]Anthracene - BSD	EPA-8270	**85.3**	**5**		20	150	01/13/2023	DBA
Chrysene - BS	EPA-8270	**93.4**			20	150	01/13/2023	DBA
Chrysene - BSD	EPA-8270	**88.6**	**5**		20	150	01/13/2023	DBA
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	**97.2**			20	150	01/13/2023	DBA
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	**91.6**	**6**		20	150	01/13/2023	DBA
Di-N-Octylphthalate - BS	EPA-8270	**100**			20	150	01/13/2023	DBA
Di-N-Octylphthalate - BSD	EPA-8270	**95.3**	**5**		20	150	01/13/2023	DBA
Benzo[B]Fluoranthene - BS	EPA-8270	**97.7**			20	150	01/13/2023	DBA
Benzo[B]Fluoranthene - BSD	EPA-8270	**92.5**	**5**		20	150	01/13/2023	DBA
Benzo[K]Fluoranthene - BS	EPA-8270	**91.2**			20	150	01/13/2023	DBA
Benzo[K]Fluoranthene - BSD	EPA-8270	**85.8**	**6**		20	150	01/13/2023	DBA
Benzo[A]Pyrene - BS	EPA-8270	**88.2**			20	150	01/13/2023	DBA
Benzo[A]Pyrene - BSD	EPA-8270	**83.7**	**5**		20	150	01/13/2023	DBA
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270	**116**			20	150	01/13/2023	DBA
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270	**107**	**8**		20	150	01/13/2023	DBA
Dibenz[A,H]Anthracene - BS	EPA-8270	**94.1**			20	150	01/13/2023	DBA
Dibenz[A,H]Anthracene - BSD	EPA-8270	**87.2**	**8**		20	150	01/13/2023	DBA
Benzo[G,H,I]Perylene - BS	EPA-8270	**106**			20	150	01/13/2023	DBA

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	1/16/2023
		ALS SDG#:	EV22120074
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Marc Sauze		
CLIENT PROJECT:	185751414 - TC Systems		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Benzo[G,H,I]Perylene - BSD	EPA-8270	**98.3**	**8**		20	150	01/13/2023	DBA

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
2-Fluorophenol - BSD	EPA-8270	**122**		S	47.1	119	01/13/2023	DBA

S - Outside of control limits.

ALS Test Batch ID: 187518 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**101**			80	120	12/19/2022	EBS
Arsenic - BSD	EPA-6020	**102**	**1**		80	120	12/19/2022	EBS
Copper - BS	EPA-6020	**108**			80	120	12/19/2022	EBS
Copper - BSD	EPA-6020	**106**	**1**		80	120	12/19/2022	EBS

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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EJ2212 0074

CHAIN OF CUSTODY RECORD

Please fill out this LEGIBIBLY, Failure to complete all sections of this form may delay analysis.
Please do not hesitate to contact us should you require any information.

18575414 - TC Systems   Standard / 10-day TAT

		Certificate of Analysis	Invoice
COMPANY:	Stantec Consulting		
POSTAL ADDRESS:	1687 114th Ave SE, Suite 100 Bellevue, WA 98004		
CONTACT NAME:	Marc Sauze and Carol Shestag		
CONTACT PHONE:	425-894-2329		
E-MAIL 1:	marc.sauze@stantec.com	☑	☑
E-MAIL 2:	carol.shestag@stantec.com	☑	☑
E-MAIL 3:	apinvoices@stantec.com	☐	☑
E-MAIL 4:		☐	☐
E-MAIL 5:		☐	☐

ANALYSIS REQUIRED

No.	SAMPLE IDENTIFICATION	Date	Time	SVOCs (8270)	cPAHs (8270 SIM)	Total Copper and Arsenic (6020)	NWTPH-Dx (TPH-D and TPH-O)
1	MW-7R-(4')	12/12/22	0930	☑	☑	☑	☑
2	MW-7R-(15')	↓	1010	☑	☑	☑	☑
3	MW-20R-(4')	↓	1015	☑	☑	☑	☑
4	MW-20R-(15')	↓	1135	☑	☑	☑	☑

Sampled by: Greg McCormick		Shipped Via:	Consignment No.:
Relinquished by: GMC	Date: 12/12/22	Received by: [signature]	Date: 12/12/22
Print Name: Greg McCormick	Time: 1500	Print Name: Carl Nm	Time: 1500
Relinquished by:	Date:	Received by:	Date:
Print Name:	Time:	Print Name:	Time:

FOR LAB USE ONLY

Shipment condition on arrival:

Temperature on arrival: 4.8C

February 17, 2023

Ms. Carol Shestag
Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

Dear Ms. Shestag,

On February 2nd, 3 samples were received by our laboratory and assigned our laboratory project number EV23020025. The project was identified as your TC Systems. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-01
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 2:00:00 PM
CLIENT SAMPLE ID	MW-7R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**260**		UG/L	1	95	32	02/08/2023	DHM
TPH-Oil Range	NWTPH-DX	**290**		UG/L	1	87	29	02/08/2023	DHM
Naphthalene	EPA-8270 SIM	**0.14**		UG/L	1	0.0023	0.00075	02/16/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	**0.066**		UG/L	1	0.0050	0.0017	02/16/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	**0.10**		UG/L	1	0.0029	0.00097	02/16/2023	DBA
Acenaphthylene	EPA-8270 SIM	ND	**UT**	UG/L	1	0.0071	0.0024	02/16/2023	DBA
Acenaphthene	EPA-8270 SIM	**0.13**		UG/L	1	0.011	0.0035	02/16/2023	DBA
Dibenzofuran	EPA-8270 SIM	**0.023**		UG/L	1	0.0082	0.0027	02/16/2023	DBA
Fluorene	EPA-8270 SIM	**0.13**		UG/L	1	0.0031	0.0010	02/16/2023	DBA
Pentachlorophenol	EPA-8270 SIM	ND	**UT**	UG/L	1	0.015	0.0052	02/16/2023	DBA
Phenanthrene	EPA-8270 SIM	**0.22**		UG/L	1	0.0061	0.0020	02/16/2023	DBA
Anthracene	EPA-8270 SIM	**0.078**		UG/L	1	0.0079	0.0026	02/16/2023	DBA
Fluoranthene	EPA-8270 SIM	**0.33**		UG/L	1	0.0018	0.00059	02/16/2023	DBA
Pyrene	EPA-8270 SIM	**0.30**		UG/L	1	0.0036	0.0012	02/16/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**0.11**		UG/L	1	0.0029	0.00098	02/16/2023	DBA
Chrysene	EPA-8270 SIM	**0.17**		UG/L	1	0.0060	0.0020	02/16/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.27**		UG/L	1	0.0088	0.0029	02/16/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.29**		UG/L	1	0.014	0.0047	02/16/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**0.19**		UG/L	1	0.0066	0.0022	02/16/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.14**		UG/L	1	0.0053	0.0018	02/16/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	**0.099**		UG/L	1	0.010	0.0034	02/16/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	**0.17**		UG/L	1	0.0057	0.0019	02/16/2023	DBA
Phenol	EPA-8270	ND	**UT**	UG/L	1	1.0	0.34	02/15/2023	DBA
Aniline	EPA-8270	ND	**UT**	UG/L	1	1.9	0.83	02/15/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.90	0.30	02/15/2023	DBA
2-Chlorophenol	EPA-8270	ND	**UT**	UG/L	1	0.82	0.27	02/15/2023	DBA
1,3-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.3	0.44	02/15/2023	DBA
1,4-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	0.99	0.33	02/15/2023	DBA
Benzyl Alcohol	EPA-8270	ND	**UT**	UG/L	1	0.99	0.33	02/15/2023	DBA
1,2-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.4	0.46	02/15/2023	DBA
2-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	1.2	0.41	02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.60	0.20	02/15/2023	DBA
3&4-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	0.78	0.26	02/15/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	ND	**UT**	UG/L	1	1.9	0.68	02/15/2023	DBA
Hexachloroethane	EPA-8270	ND	**UT**	UG/L	1	1.9	0.64	02/15/2023	DBA
Nitrobenzene	EPA-8270	ND	**UT**	UG/L	1	1.1	0.38	02/15/2023	DBA
Isophorone	EPA-8270	ND	**UT**	UG/L	1	1.1	0.38	02/15/2023	DBA
2-Nitrophenol	EPA-8270	ND	**UT**	UG/L	1	1.1	0.37	02/15/2023	DBA
2,4-Dimethylphenol	EPA-8270	ND	**UT**	UG/L	1	0.84	0.28	02/15/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-01
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 2:00:00 PM
CLIENT SAMPLE ID	MW-7R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
Benzoic Acid	EPA-8270	ND	UT	UG/L	1	2.3	0.78	02/15/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	ND	UT	UG/L	1	1.0	0.34	02/15/2023	DBA
2,4-Dichlorophenol	EPA-8270	ND	UT	UG/L	1	0.76	0.25	02/15/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	ND	UT	UG/L	1	1.1	0.36	02/15/2023	DBA
4-Chloroaniline	EPA-8270	ND	UT	UG/L	1	1.8	0.60	02/15/2023	DBA
Hexachlorobutadiene	EPA-8270	ND	UT	UG/L	1	1.9	0.63	02/15/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	ND	UT	UG/L	1	1.1	0.38	02/15/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	ND	UT	UG/L	1	1.9	0.94	02/15/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	ND	UT	UG/L	1	0.86	0.29	02/15/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	ND	UT	UG/L	1	1.5	0.49	02/15/2023	DBA
2-Chloronaphthalene	EPA-8270	ND	UT	UG/L	1	0.87	0.29	02/15/2023	DBA
2-Nitroaniline	EPA-8270	ND	UT	UG/L	1	0.73	0.24	02/15/2023	DBA
Dimethylphthalate	EPA-8270	ND	UT	UG/L	1	0.66	0.22	02/15/2023	DBA
2,6-Dinitrotoluene	EPA-8270	ND	UT	UG/L	1	1.8	0.58	02/15/2023	DBA
3-Nitroaniline	EPA-8270	ND	UT	UG/L	1	1.3	0.43	02/15/2023	DBA
2,4-Dinitrophenol	EPA-8270	ND	UT	UG/L	1	2.8	0.94	02/15/2023	DBA
4-Nitrophenol	EPA-8270	ND	UT	UG/L	1	1.9	1.4	02/15/2023	DBA
2,4-Dinitrotoluene	EPA-8270	ND	UT	UG/L	1	0.75	0.25	02/15/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	ND	UT	UG/L	1	1.0	0.34	02/15/2023	DBA
Diethylphthalate	EPA-8270	ND	UT	UG/L	1	0.77	0.26	02/15/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	ND	UT	UG/L	1	0.71	0.24	02/15/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	ND	UT	UG/L	1	1.9	0.80	02/15/2023	DBA
Azobenzene	EPA-8270	ND	UT	UG/L	1	1.6	0.52	02/15/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	ND	UT	UG/L	1	0.76	0.25	02/15/2023	DBA
Hexachlorobenzene	EPA-8270	ND	UT	UG/L	1	0.61	0.20	02/15/2023	DBA
Di-N-Butylphthalate	EPA-8270	ND	UT	UG/L	1	0.80	0.27	02/15/2023	DBA
Butylbenzylphthalate	EPA-8270	ND	UT	UG/L	1	0.64	0.21	02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	**0.46**	JT	UG/L	1	0.78	0.26	02/15/2023	DBA
Di-N-Octylphthalate	EPA-8270	ND	UT	UG/L	1	0.84	0.28	02/15/2023	DBA
Arsenic	EPA-200.8	**150**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper	EPA-200.8	**47**		UG/L	1	0.80	0.27	02/06/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**120**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper (Dissolved)	EPA-200.8	**0.57**	JT	UG/L	1	0.80	0.27	02/06/2023	EBS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	118		80.0	94.5	60	126	02/08/2023	DHM
2,4,6-Tribromophenol	EPA-8270 SIM	60.2		38.5	23.1	12	151	02/16/2023	DBA
Terphenyl-d14	EPA-8270 SIM	59.2		19.2	11.4	50	147	02/16/2023	DBA
2-Fluorophenol	EPA-8270	36.1		38.5	13.9	29	105	02/15/2023	DBA

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-01
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 2:00:00 PM
CLIENT SAMPLE ID	MW-7R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Phenol-d5	EPA-8270	17.7		38.5	6.81	5	88	02/15/2023	DBA
Nitrobenzene-d5	EPA-8270	70.6		19.2	13.6	53	125	02/15/2023	DBA
2-Fluorobiphenyl	EPA-8270	43.0		19.2	8.28	30.3	127	02/15/2023	DBA
2,4,6-Tribromophenol	EPA-8270	80.9		38.5	31.1	45	143	02/15/2023	DBA
Terphenyl-d14	EPA-8270	91.4		19.2	17.6	58	132	02/15/2023	DBA

UT - Analyte analyzed for but not detected at level above the MDL.
JT - Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-02
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 1:20:00 PM
CLIENT SAMPLE ID	MW-20R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**480**		UG/L	1	95	32	02/09/2023	DHM
TPH-Oil Range	NWTPH-DX	**400**		UG/L	1	87	29	02/09/2023	DHM
Naphthalene	EPA-8270 SIM	**0.14**		UG/L	1	0.0022	0.00075	02/16/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	**0.070**		UG/L	1	0.0050	0.0017	02/16/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	**0.12**		UG/L	1	0.0029	0.00096	02/16/2023	DBA
Acenaphthylene	EPA-8270 SIM	ND	**UT**	UG/L	1	0.0070	0.0023	02/16/2023	DBA
Acenaphthene	EPA-8270 SIM	**0.16**		UG/L	1	0.010	0.0035	02/16/2023	DBA
Dibenzofuran	EPA-8270 SIM	**0.029**		UG/L	1	0.0081	0.0027	02/16/2023	DBA
Fluorene	EPA-8270 SIM	**0.16**		UG/L	1	0.0031	0.0010	02/16/2023	DBA
Pentachlorophenol	EPA-8270 SIM	ND	**UT**	UG/L	1	0.015	0.0051	02/16/2023	DBA
Phenanthrene	EPA-8270 SIM	**0.24**		UG/L	1	0.0060	0.0020	02/16/2023	DBA
Anthracene	EPA-8270 SIM	**0.070**		UG/L	1	0.0078	0.0026	02/16/2023	DBA
Fluoranthene	EPA-8270 SIM	**0.31**		UG/L	1	0.0017	0.00058	02/16/2023	DBA
Pyrene	EPA-8270 SIM	**0.31**		UG/L	1	0.0036	0.0012	02/16/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**0.11**		UG/L	1	0.0029	0.00097	02/16/2023	DBA
Chrysene	EPA-8270 SIM	**0.16**		UG/L	1	0.0059	0.0020	02/16/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.14**		UG/L	1	0.0087	0.0029	02/16/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.11**		UG/L	1	0.014	0.0046	02/16/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**0.12**		UG/L	1	0.0065	0.0022	02/16/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.099**		UG/L	1	0.0053	0.0018	02/16/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	**0.023**		UG/L	1	0.010	0.0034	02/16/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	**0.12**		UG/L	1	0.0057	0.0019	02/16/2023	DBA
Phenol	EPA-8270	**0.39**	**JT**	UG/L	1	1.0	0.33	02/15/2023	DBA
Aniline	EPA-8270	ND	**UT**	UG/L	1	1.9	0.82	02/15/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.89	0.30	02/15/2023	DBA
2-Chlorophenol	EPA-8270	ND	**UT**	UG/L	1	0.81	0.27	02/15/2023	DBA
1,3-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.3	0.43	02/15/2023	DBA
1,4-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	0.98	0.33	02/15/2023	DBA
Benzyl Alcohol	EPA-8270	ND	**UT**	UG/L	1	0.98	0.33	02/15/2023	DBA
1,2-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.4	0.45	02/15/2023	DBA
2-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	1.2	0.41	02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.59	0.20	02/15/2023	DBA
3&4-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	0.77	0.26	02/15/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	ND	**UT**	UG/L	1	1.9	0.67	02/15/2023	DBA
Hexachloroethane	EPA-8270	ND	**UT**	UG/L	1	1.9	0.64	02/15/2023	DBA
Nitrobenzene	EPA-8270	ND	**UT**	UG/L	1	1.1	0.38	02/15/2023	DBA
Isophorone	EPA-8270	ND	**UT**	UG/L	1	1.1	0.37	02/15/2023	DBA
2-Nitrophenol	EPA-8270	ND	**UT**	UG/L	1	1.1	0.36	02/15/2023	DBA
2,4-Dimethylphenol	EPA-8270	ND	**UT**	UG/L	1	0.83	0.28	02/15/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-02
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 1:20:00 PM
CLIENT SAMPLE ID	MW-20R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
Benzoic Acid	EPA-8270	ND	UT	UG/L	1	2.3	0.78	02/15/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	ND	UT	UG/L	1	1.0	0.33	02/15/2023	DBA
2,4-Dichlorophenol	EPA-8270	ND	UT	UG/L	1	0.75	0.25	02/15/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	ND	UT	UG/L	1	1.1	0.36	02/15/2023	DBA
4-Chloroaniline	EPA-8270	ND	UT	UG/L	1	1.8	0.60	02/15/2023	DBA
Hexachlorobutadiene	EPA-8270	ND	UT	UG/L	1	1.9	0.62	02/15/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	ND	UT	UG/L	1	1.1	0.38	02/15/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	ND	UT	UG/L	1	1.9	0.93	02/15/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	ND	UT	UG/L	1	0.85	0.28	02/15/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	ND	UT	UG/L	1	1.5	0.49	02/15/2023	DBA
2-Chloronaphthalene	EPA-8270	ND	UT	UG/L	1	0.86	0.29	02/15/2023	DBA
2-Nitroaniline	EPA-8270	ND	UT	UG/L	1	0.73	0.24	02/15/2023	DBA
Dimethylphthalate	EPA-8270	ND	UT	UG/L	1	0.65	0.22	02/15/2023	DBA
2,6-Dinitrotoluene	EPA-8270	ND	UT	UG/L	1	1.7	0.58	02/15/2023	DBA
3-Nitroaniline	EPA-8270	ND	UT	UG/L	1	1.3	0.43	02/15/2023	DBA
2,4-Dinitrophenol	EPA-8270	ND	UT	UG/L	1	2.8	0.93	02/15/2023	DBA
4-Nitrophenol	EPA-8270	ND	UT	UG/L	1	1.9	1.4	02/15/2023	DBA
2,4-Dinitrotoluene	EPA-8270	ND	UT	UG/L	1	0.74	0.25	02/15/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	ND	UT	UG/L	1	1.0	0.34	02/15/2023	DBA
Diethylphthalate	EPA-8270	ND	UT	UG/L	1	0.76	0.25	02/15/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	ND	UT	UG/L	1	0.70	0.23	02/15/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	ND	UT	UG/L	1	1.9	0.79	02/15/2023	DBA
Azobenzene	EPA-8270	ND	UT	UG/L	1	1.6	0.52	02/15/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	ND	UT	UG/L	1	0.75	0.25	02/15/2023	DBA
Hexachlorobenzene	EPA-8270	ND	UT	UG/L	1	0.60	0.20	02/15/2023	DBA
Di-N-Butylphthalate	EPA-8270	ND	UT	UG/L	1	0.79	0.26	02/15/2023	DBA
Butylbenzylphthalate	EPA-8270	ND	UT	UG/L	1	0.63	0.21	02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	**0.44**	JT	UG/L	1	0.77	0.26	02/15/2023	DBA
Di-N-Octylphthalate	EPA-8270	ND	UT	UG/L	1	0.83	0.28	02/15/2023	DBA
Arsenic	EPA-200.8	**57**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper	EPA-200.8	**160**		UG/L	1	0.80	0.27	02/06/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**18**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper (Dissolved)	EPA-200.8	**0.58**	JT	UG/L	1	0.80	0.27	02/06/2023	EBS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	104		80.0	83.5	60	126	02/09/2023	DHM
2,4,6-Tribromophenol	EPA-8270 SIM	58.1		38.1	22.1	12	151	02/16/2023	DBA
Terphenyl-d14	EPA-8270 SIM	53.4		19.0	10.2	50	147	02/16/2023	DBA
2-Fluorophenol	EPA-8270	36.0		38.1	13.7	29	105	02/15/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-02
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023 1:20:00 PM
CLIENT SAMPLE ID	MW-20R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Phenol-d5	EPA-8270	18.8		38.1	7.15	5	88	02/15/2023	DBA
Nitrobenzene-d5	EPA-8270	68.1		19.0	13.0	53	125	02/15/2023	DBA
2-Fluorobiphenyl	EPA-8270	50.5		19.0	9.63	30.3	127	02/15/2023	DBA
2,4,6-Tribromophenol	EPA-8270	81.2		38.1	30.9	45	143	02/15/2023	DBA
Terphenyl-d14	EPA-8270	83.5		19.0	15.9	58	132	02/15/2023	DBA

UT - Analyte analyzed for but not detected at level above the MDL.
JT - Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-03
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023
CLIENT SAMPLE ID	Dup-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**270**		UG/L	1	95	32	02/09/2023	DHM
TPH-Oil Range	NWTPH-DX	**300**		UG/L	1	87	29	02/09/2023	DHM
Naphthalene	EPA-8270 SIM	**4.0**		UG/L	1	0.0022	0.00075	02/16/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	**4.7**		UG/L	1	0.0050	0.0017	02/16/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	**3.9**		UG/L	1	0.0029	0.00096	02/16/2023	DBA
Acenaphthylene	EPA-8270 SIM	ND	**UT**	UG/L	1	0.0070	0.0023	02/16/2023	DBA
Acenaphthene	EPA-8270 SIM	**5.1**		UG/L	1	0.010	0.0035	02/16/2023	DBA
Dibenzofuran	EPA-8270 SIM	**2.0**		UG/L	1	0.0081	0.0027	02/16/2023	DBA
Fluorene	EPA-8270 SIM	**3.2**		UG/L	1	0.0031	0.0010	02/16/2023	DBA
Pentachlorophenol	EPA-8270 SIM	ND	**UT**	UG/L	1	0.015	0.0051	02/16/2023	DBA
Phenanthrene	EPA-8270 SIM	**4.4**		UG/L	1	0.0060	0.0020	02/16/2023	DBA
Anthracene	EPA-8270 SIM	**1.5**		UG/L	1	0.0078	0.0026	02/16/2023	DBA
Fluoranthene	EPA-8270 SIM	**2.5**		UG/L	1	0.0017	0.00058	02/16/2023	DBA
Pyrene	EPA-8270 SIM	**2.1**		UG/L	1	0.0036	0.0012	02/16/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	**0.92**		UG/L	1	0.0029	0.00097	02/16/2023	DBA
Chrysene	EPA-8270 SIM	**1.3**		UG/L	1	0.0059	0.0020	02/16/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.87**		UG/L	1	0.0087	0.0029	02/16/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.57**		UG/L	1	0.014	0.0046	02/16/2023	DBA
Benzo[A]Pyrene	EPA-8270 SIM	**1.2**		UG/L	1	0.0065	0.0022	02/16/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.60**		UG/L	1	0.0053	0.0018	02/16/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	**0.20**		UG/L	1	0.010	0.0034	02/16/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	**0.62**		UG/L	1	0.0057	0.0019	02/16/2023	DBA
Phenol	EPA-8270	**2.9**		UG/L	1	1.0	0.33	02/15/2023	DBA
Aniline	EPA-8270	ND	**UT**	UG/L	1	1.9	0.82	02/15/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.89	0.30	02/15/2023	DBA
2-Chlorophenol	EPA-8270	ND	**UT**	UG/L	1	0.81	0.27	02/15/2023	DBA
1,3-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.3	0.43	02/15/2023	DBA
1,4-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	0.98	0.33	02/15/2023	DBA
Benzyl Alcohol	EPA-8270	ND	**UT**	UG/L	1	0.98	0.33	02/15/2023	DBA
1,2-Dichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.4	0.45	02/15/2023	DBA
2-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	1.2	0.41	02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	ND	**UT**	UG/L	1	0.59	0.20	02/15/2023	DBA
3&4-Methylphenol	EPA-8270	**5.6**		UG/L	1	0.77	0.26	02/15/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	ND	**UT**	UG/L	1	1.9	0.67	02/15/2023	DBA
Hexachloroethane	EPA-8270	ND	**UT**	UG/L	1	1.9	0.64	02/15/2023	DBA
Nitrobenzene	EPA-8270	ND	**UT**	UG/L	1	1.1	0.38	02/15/2023	DBA
Isophorone	EPA-8270	ND	**UT**	UG/L	1	1.1	0.37	02/15/2023	DBA
2-Nitrophenol	EPA-8270	ND	**UT**	UG/L	1	1.1	0.36	02/15/2023	DBA
2,4-Dimethylphenol	EPA-8270	ND	**UT**	UG/L	1	0.83	0.28	02/15/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS JOB#:	EV23020025
		ALS SAMPLE#:	EV23020025-03
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023
CLIENT SAMPLE ID	Dup-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	QUAL	UNITS	DILUTION FACTOR	LIMITS RL	LIMITS MDL	ANALYSIS DATE	ANALYSIS BY
Benzoic Acid	EPA-8270	ND	**UT**	UG/L	1	2.3	0.78	02/15/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	ND	**UT**	UG/L	1	1.0	0.33	02/15/2023	DBA
2,4-Dichlorophenol	EPA-8270	ND	**UT**	UG/L	1	0.75	0.25	02/15/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	ND	**UT**	UG/L	1	1.1	0.36	02/15/2023	DBA
4-Chloroaniline	EPA-8270	ND	**UT**	UG/L	1	1.8	0.60	02/15/2023	DBA
Hexachlorobutadiene	EPA-8270	ND	**UT**	UG/L	1	1.9	0.62	02/15/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	1.1	0.38	02/15/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	ND	**UT**	UG/L	1	1.9	0.93	02/15/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	ND	**UT**	UG/L	1	0.85	0.28	02/15/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	ND	**UT**	UG/L	1	1.5	0.49	02/15/2023	DBA
2-Chloronaphthalene	EPA-8270	ND	**UT**	UG/L	1	0.86	0.29	02/15/2023	DBA
2-Nitroaniline	EPA-8270	ND	**UT**	UG/L	1	0.73	0.24	02/15/2023	DBA
Dimethylphthalate	EPA-8270	ND	**UT**	UG/L	1	0.65	0.22	02/15/2023	DBA
2,6-Dinitrotoluene	EPA-8270	ND	**UT**	UG/L	1	1.7	0.58	02/15/2023	DBA
3-Nitroaniline	EPA-8270	ND	**UT**	UG/L	1	1.3	0.43	02/15/2023	DBA
2,4-Dinitrophenol	EPA-8270	ND	**UT**	UG/L	1	2.8	0.93	02/15/2023	DBA
4-Nitrophenol	EPA-8270	ND	**UT**	UG/L	1	1.9	1.4	02/15/2023	DBA
2,4-Dinitrotoluene	EPA-8270	ND	**UT**	UG/L	1	0.74	0.25	02/15/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	ND	**UT**	UG/L	1	1.0	0.34	02/15/2023	DBA
Diethylphthalate	EPA-8270	ND	**UT**	UG/L	1	0.76	0.25	02/15/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	ND	**UT**	UG/L	1	0.70	0.23	02/15/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	ND	**UT**	UG/L	1	1.9	0.79	02/15/2023	DBA
Azobenzene	EPA-8270	ND	**UT**	UG/L	1	1.6	0.52	02/15/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	ND	**UT**	UG/L	1	0.75	0.25	02/15/2023	DBA
Hexachlorobenzene	EPA-8270	ND	**UT**	UG/L	1	0.60	0.20	02/15/2023	DBA
Di-N-Butylphthalate	EPA-8270	ND	**UT**	UG/L	1	0.79	0.26	02/15/2023	DBA
Butylbenzylphthalate	EPA-8270	ND	**UT**	UG/L	1	0.63	0.21	02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	ND	**UT**	UG/L	1	0.77	0.26	02/15/2023	DBA
Di-N-Octylphthalate	EPA-8270	ND	**UT**	UG/L	1	0.83	0.28	02/15/2023	DBA
Arsenic	EPA-200.8	**160**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper	EPA-200.8	**60**		UG/L	1	0.80	0.27	02/06/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**110**		UG/L	1	0.45	0.15	02/06/2023	EBS
Copper (Dissolved)	EPA-200.8	**0.57**	**JT**	UG/L	1	0.80	0.27	02/06/2023	EBS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	126	**SQ4**	80.0	101	60	126	02/09/2023	DHM
2,4,6-Tribromophenol	EPA-8270 SIM	68.6		38.1	26.2	12	151	02/16/2023	DBA
Terphenyl-d14	EPA-8270 SIM	61.6		19.0	11.7	50	147	02/16/2023	DBA
2-Fluorophenol	EPA-8270	43.3		38.1	16.5	29	105	02/15/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE: ALS JOB#: ALS SAMPLE#:	2/17/2023 EV23020025 EV23020025-03
CLIENT CONTACT:	Carol Shestag	DATE RECEIVED:	02/02/2023
CLIENT PROJECT:	TC Systems	COLLECTION DATE:	2/2/2023
CLIENT SAMPLE ID	Dup-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	RESULTS	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Phenol-d5	EPA-8270	21.2		38.1	8.09	5	88	02/15/2023	DBA
Nitrobenzene-d5	EPA-8270	74.4		19.0	14.2	53	125	02/15/2023	DBA
2-Fluorobiphenyl	EPA-8270	71.0		19.0	13.5	30.3	127	02/15/2023	DBA
2,4,6-Tribromophenol	EPA-8270	92.5		38.1	35.2	45	143	02/15/2023	DBA
Terphenyl-d14	EPA-8270	93.9		19.0	17.9	58	132	02/15/2023	DBA

UT - Analyte analyzed for but not detected at level above the MDL.
SQ4 - Spike outside of control limits due to sporadic marginal failure. No corrective action taken.
JT - Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS SDG#:	EV23020025
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Carol Shestag		
CLIENT PROJECT:	TC Systems		

LABORATORY BLANK RESULTS

MB-020723W - Batch 189552 - Water by NWTPH-DX Prepared 02/07/2023 00:00

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS RL	LIMITS MDL	LIMITS PQL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**64 JT**	JT	UG/L	120	40	120	02/09/2023	DHM
TPH-Oil Range	NWTPH-DX	**37 JT**	JT	UG/L	110	36	110	02/09/2023	DHM

SURROGATE	METHOD	%REC	QUAL	SPIKE ADDED	RESULT	CONTROL LIMITS MIN	CONTROL LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**73.3**		100	**73.3**	**60**	**126**	02/09/2023	DHM

JT - Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.

UT - Analyte analyzed for but not detected at level above the MDL.

MB-020723W2 - Batch 189552 - Water by NWTPH-DX Prepared 02/07/2023 00:00

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS RL	LIMITS MDL	LIMITS PQL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	**77 JT**	JT	UG/L	120	40	120	02/14/2023	DHM
TPH-Oil Range	NWTPH-DX	ND	UT	UG/L	110	36	110	02/14/2023	DHM

SURROGATE	METHOD	%REC	QUAL	SPIKE ADDED	RESULT	CONTROL LIMITS MIN	CONTROL LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**86.1**		100	**86.1**	**60**	**126**	02/14/2023	DHM

JT - Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.

UT - Analyte analyzed for but not detected at level above the MDL.

MB-020823W - Batch 189824 - Water by EPA-8270 SIM Prepared 02/08/2023 00:00

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS RL	LIMITS MDL	LIMITS PQL	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	ND	UT	UG/L	0.0024	0.00078	0.0024	02/16/2023	DBA
2-Methylnaphthalene	EPA-8270 SIM	ND	UT	UG/L	0.0052	0.0017	0.0052	02/16/2023	DBA
1-Methylnaphthalene	EPA-8270 SIM	ND	UT	UG/L	0.0030	0.0010	0.0030	02/16/2023	DBA
Acenaphthylene	EPA-8270 SIM	ND	UT	UG/L	0.0074	0.0025	0.0074	02/16/2023	DBA
Acenaphthene	EPA-8270 SIM	ND	UT	UG/L	0.011	0.0036	0.011	02/16/2023	DBA
Dibenzofuran	EPA-8270 SIM	ND	UT	UG/L	0.0085	0.0028	0.0085	02/16/2023	DBA
Fluorene	EPA-8270 SIM	ND	UT	UG/L	0.0033	0.0011	0.0033	02/16/2023	DBA
Pentachlorophenol	EPA-8270 SIM	ND	UT	UG/L	0.016	0.0054	0.016	02/16/2023	DBA
Phenanthrene	EPA-8270 SIM	ND	UT	UG/L	0.0063	0.0021	0.0063	02/16/2023	DBA
Anthracene	EPA-8270 SIM	ND	UT	UG/L	0.0082	0.0027	0.0082	02/16/2023	DBA
Fluoranthene	EPA-8270 SIM	ND	UT	UG/L	0.0018	0.00061	0.0018	02/16/2023	DBA
Pyrene	EPA-8270 SIM	ND	UT	UG/L	0.0038	0.0013	0.0038	02/16/2023	DBA
Benzo[A]Anthracene	EPA-8270 SIM	ND	UT	UG/L	0.0031	0.0010	0.0031	02/16/2023	DBA
Chrysene	EPA-8270 SIM	ND	UT	UG/L	0.0062	0.0021	0.0062	02/16/2023	DBA
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	UT	UG/L	0.0091	0.0030	0.0091	02/16/2023	DBA
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	UT	UG/L	0.015	0.0049	0.015	02/16/2023	DBA

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CERTIFICATE OF ANALYSIS

CLIENT: Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

CLIENT CONTACT: Carol Shestag
CLIENT PROJECT: TC Systems

DATE: 2/17/2023
ALS SDG#: EV23020025
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-020823W - Batch 189824 - Water by EPA-8270 SIM Prepared 02/08/2023 00:00

Benzo[A]Pyrene	EPA-8270 SIM	ND	UT	UG/L	0.0069	0.0023	0.0069	02/16/2023	DBA
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	UT	UG/L	0.0055	0.0018	0.0055	02/16/2023	DBA
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	UT	UG/L	0.011	0.0036	0.011	02/16/2023	DBA
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND	UT	UG/L	0.0060	0.0020	0.0060	02/16/2023	DBA

SURROGATE	METHOD	%REC	QUAL	SPIKE ADDED	RESULT	CONTROL LIMITS MIN	CONTROL LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
2,4,6-Tribromophenol	EPA-8270 SIM	**31.3**		40.0	**12.5**	**12**	**151**	02/16/2023	DBA
Terphenyl-d14	EPA-8270 SIM	**53.0**		20.0	**10.6**	**50**	**147**	02/16/2023	DBA

UT - Analyte analyzed for but not detected at level above the MDL.

MB-020823W - Batch 189508 - Water by EPA-8270 Prepared 02/07/2023 00:00

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS RL	LIMITS MDL	LIMITS PQL	ANALYSIS DATE	ANALYSIS BY
Phenol	EPA-8270	ND	UT	UG/L	1.0	0.35	1.0	02/15/2023	DBA
Aniline	EPA-8270	ND	UT	UG/L	2.0	0.86	2.0	02/15/2023	DBA
Bis(2-Chloroethyl)Ether	EPA-8270	ND	UT	UG/L	0.94	0.31	0.94	02/15/2023	DBA
2-Chlorophenol	EPA-8270	ND	UT	UG/L	0.85	0.28	0.85	02/15/2023	DBA
1,3-Dichlorobenzene	EPA-8270	ND	UT	UG/L	1.4	0.46	1.4	02/15/2023	DBA
1,4-Dichlorobenzene	EPA-8270	ND	UT	UG/L	1.0	0.34	1.0	02/15/2023	DBA
Benzyl Alcohol	EPA-8270	ND	UT	UG/L	1.0	0.34	1.0	02/15/2023	DBA
1,2-Dichlorobenzene	EPA-8270	ND	UT	UG/L	1.4	0.48	1.4	02/15/2023	DBA
2-Methylphenol	EPA-8270	ND	UT	UG/L	1.3	0.43	1.3	02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether	EPA-8270	ND	UT	UG/L	0.62	0.21	0.62	02/15/2023	DBA
3&4-Methylphenol	EPA-8270	ND	UT	UG/L	0.81	0.27	0.81	02/15/2023	DBA
N-Nitroso-Di-N-Propylamine	EPA-8270	ND	UT	UG/L	2.0	0.70	2.0	02/15/2023	DBA
Hexachloroethane	EPA-8270	ND	UT	UG/L	2.0	0.67	2.0	02/15/2023	DBA
Nitrobenzene	EPA-8270	ND	UT	UG/L	1.2	0.40	1.2	02/15/2023	DBA
Isophorone	EPA-8270	ND	UT	UG/L	1.2	0.39	1.2	02/15/2023	DBA
2-Nitrophenol	EPA-8270	ND	UT	UG/L	1.1	0.38	1.1	02/15/2023	DBA
2,4-Dimethylphenol	EPA-8270	ND	UT	UG/L	0.87	0.29	0.87	02/15/2023	DBA
Benzoic Acid	EPA-8270	ND	UT	UG/L	2.4	0.81	2.4	02/15/2023	DBA
Bis(2-Chloroethoxy)Methane	EPA-8270	ND	UT	UG/L	1.0	0.35	1.0	02/15/2023	DBA
2,4-Dichlorophenol	EPA-8270	ND	UT	UG/L	0.79	0.26	0.79	02/15/2023	DBA
1,2,4-Trichlorobenzene	EPA-8270	ND	UT	UG/L	1.1	0.37	1.1	02/15/2023	DBA
4-Chloroaniline	EPA-8270	ND	UT	UG/L	1.9	0.63	1.9	02/15/2023	DBA
Hexachlorobutadiene	EPA-8270	ND	UT	UG/L	2.0	0.65	2.0	02/15/2023	DBA
4-Chloro-3-Methylphenol	EPA-8270	ND	UT	UG/L	1.2	0.40	1.2	02/15/2023	DBA
Hexachlorocyclopentadiene	EPA-8270	ND	UT	UG/L	2.0	0.98	2.0	02/15/2023	DBA
2,4,6-Trichlorophenol	EPA-8270	ND	UT	UG/L	0.90	0.30	0.90	02/15/2023	DBA
2,4,5-Trichlorophenol	EPA-8270	ND	UT	UG/L	1.5	0.51	1.5	02/15/2023	DBA

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Bellevue, WA 98004
CLIENT CONTACT: Carol Shestag
CLIENT PROJECT: TC Systems

DATE: 2/17/2023
ALS SDG#: EV23020025
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-020823W - Batch 189508 - Water by EPA-8270 Prepared 02/07/2023 00:00

2-Chloronaphthalene	EPA-8270	ND	UT	UG/L	0.90	0.30	0.90	02/15/2023	DBA
2-Nitroaniline	EPA-8270	ND	UT	UG/L	2.7	0.90	2.7	02/15/2023	DBA
Dimethylphthalate	EPA-8270	ND	UT	UG/L	0.69	0.23	0.69	02/15/2023	DBA
2,6-Dinitrotoluene	EPA-8270	ND	UT	UG/L	1.8	0.61	1.8	02/15/2023	DBA
3-Nitroaniline	EPA-8270	ND	UT	UG/L	7.6	2.5	7.6	02/15/2023	DBA
2,4-Dinitrophenol	EPA-8270	ND	UT	UG/L	2.9	0.98	2.9	02/15/2023	DBA
4-Nitrophenol	EPA-8270	ND	UT	UG/L	2.0	1.5	2.0	02/15/2023	DBA
2,4-Dinitrotoluene	EPA-8270	ND	UT	UG/L	0.78	0.26	0.78	02/15/2023	DBA
2,3,4,6-Tetrachlorophenol	EPA-8270	ND	UT	UG/L	1.1	0.35	1.1	02/15/2023	DBA
Diethylphthalate	EPA-8270	ND	UT	UG/L	3.1	1.0	3.1	02/15/2023	DBA
4-Chlorophenyl-Phenylether	EPA-8270	ND	UT	UG/L	0.74	0.25	0.74	02/15/2023	DBA
4,6-Dinitro-2-Methylphenol	EPA-8270	ND	UT	UG/L	2.4	0.80	2.4	02/15/2023	DBA
Azobenzene	EPA-8270	ND	UT	UG/L	1.6	0.54	1.6	02/15/2023	DBA
4-Bromophenyl-Phenylether	EPA-8270	ND	UT	UG/L	0.79	0.26	0.79	02/15/2023	DBA
Hexachlorobenzene	EPA-8270	ND	UT	UG/L	0.63	0.21	0.63	02/15/2023	DBA
Di-N-Butylphthalate	EPA-8270	ND	UT	UG/L	3.5	1.2	3.5	02/15/2023	DBA
Butylbenzylphthalate	EPA-8270	ND	UT	UG/L	2.2	0.72	2.2	02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate	EPA-8270	ND	UT	UG/L	3.2	1.1	3.2	02/15/2023	DBA
Di-N-Octylphthalate	EPA-8270	ND	UT	UG/L	0.87	0.29	0.87	02/15/2023	DBA

				SPIKE		CONTROL LIMITS		ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC	QUAL	ADDED	RESULT	MIN	MAX	DATE	BY
2-Fluorophenol	EPA-8270	**43.5**		40.0	**17.4**	**29**	**105**	02/15/2023	DBA
Phenol-d5	EPA-8270	**21.3**		40.0	**8.54**	**5**	**88**	02/15/2023	DBA
Nitrobenzene-d5	EPA-8270	**68.2**		20.0	**13.6**	**53**	**125**	02/15/2023	DBA
2-Fluorobiphenyl	EPA-8270	**50.2**		20.0	**10.0**	**30.3**	**127**	02/15/2023	DBA
2,4,6-Tribromophenol	EPA-8270	**65.5**		40.0	**26.2**	**45**	**143**	02/15/2023	DBA
Terphenyl-d14	EPA-8270	**88.8**		20.0	**17.8**	**58**	**132**	02/15/2023	DBA

UT - Analyte analyzed for but not detected at level above the MDL.

MB-020623W - Batch 189401 - Water by EPA-200.8 Prepared 02/06/2023 00:00

					LIMITS			ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	RL	MDL	PQL	DATE	BY
Arsenic	EPA-200.8	ND	UT	UG/L	0.15	0.050	0.15	02/06/2023	EBS
Copper	EPA-200.8	**0.23 J**	J	UG/L	0.090	0.030	0.090	02/06/2023	EBS

J - Analyte was positively identified. Reported result is an estimate below the associated reporting limit but above the MDL.

UT - Analyte analyzed for but not detected at level above the MDL.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS SDG#:	EV23020025
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Carol Shestag		
CLIENT PROJECT:	TC Systems		

LABORATORY BLANK RESULTS

MB-020623W - Batch 189402 - Water by EPA-200.8 Prepared 02/06/2023 00:00

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS RL	LIMITS MDL	LIMITS PQL	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	ND	UT	UG/L	0.15	0.050	0.15	02/06/2023	EBS
Copper (Dissolved)	EPA-200.8	**0.23 J**	J	UG/L	0.090	0.030	0.090	02/06/2023	EBS

J - Analyte was positively identified. Reported result is an estimate below the associated reporting limit but above the MDL.

UT - Analyte analyzed for but not detected at level above the MDL.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS SDG#:	EV23020025
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Carol Shestag		
CLIENT PROJECT:	TC Systems		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 189552 - Water by NWTPH-DX Prepared 02/07/2023 00:00

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**104**			1250	1300	67	125.2		02/14/2023	DHM
TPH-Diesel Range - BS	NWTPH-DX	**96.2**			1250	1200	67	125.2		02/08/2023	DHM
TPH-Diesel Range - BSD	NWTPH-DX	**108**	**4**		1250	1350	67	125.2	15.2	02/14/2023	DHM
TPH-Diesel Range - BSD	NWTPH-DX	**96.7**	**1**		1250	1210	67	125.2	15.2	02/08/2023	DHM

SURROGATE	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
C25 - BS	NWTPH-DX	**118**			100	118	60	126		02/14/2023	DHM
C25 - BS	NWTPH-DX	**119**			100	119	60	126		02/08/2023	DHM
C25 - BSD	NWTPH-DX	**118**			100	118	60	126		02/14/2023	DHM
C25 - BSD	NWTPH-DX	**114**			100	114	60	126		02/08/2023	DHM

ALS Test Batch ID: 189508 - Water by EPA-8270 Prepared 02/07/2023 00:00

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**33.9**			50.0	17.0	5	84		02/15/2023	DBA
Phenol - BSD	EPA-8270	**30.6**	**10**		50.0	15.3	5	84	22	02/15/2023	DBA
Aniline - BS	EPA-8270	**61.9**			50.0	30.9	20	150		02/15/2023	DBA
Aniline - BSD	EPA-8270	**62.7**	**1**		50.0	31.3	20	150	30	02/15/2023	DBA
Bis(2-Chloroethyl)Ether - BS	EPA-8270	**97.1**			50.0	48.6	20	150		02/15/2023	DBA
Bis(2-Chloroethyl)Ether - BSD	EPA-8270	**88.6**	**9**		50.0	44.3	20	150	30	02/15/2023	DBA
2-Chlorophenol - BS	EPA-8270	**89.6**			50.0	44.8	45	111		02/15/2023	DBA
2-Chlorophenol - BSD	EPA-8270	**85.0**	**5**		50.0	42.5	45	111	17	02/15/2023	DBA
1,3-Dichlorobenzene - BS	EPA-8270	**85.0**			50.0	42.5	20	150		02/15/2023	DBA
1,3-Dichlorobenzene - BSD	EPA-8270	**71.1**	**18**		50.0	35.5	20	150	30	02/15/2023	DBA
1,4-Dichlorobenzene - BS	EPA-8270	**85.3**			50.0	42.7	27.1	114		02/15/2023	DBA
1,4-Dichlorobenzene - BSD	EPA-8270	**72.2**	**17**		50.0	36.1	27.1	114	21	02/15/2023	DBA
Benzyl Alcohol - BS	EPA-8270	**66.3**			50.0	33.1	20	150		02/15/2023	DBA
Benzyl Alcohol - BSD	EPA-8270	**60.2**	**10**		50.0	30.1	20	150	30	02/15/2023	DBA
1,2-Dichlorobenzene - BS	EPA-8270	**85.2**			50.0	42.6	20	150		02/15/2023	DBA
1,2-Dichlorobenzene - BSD	EPA-8270	**76.6**	**11**		50.0	38.3	20	150	30	02/15/2023	DBA
2-Methylphenol - BS	EPA-8270	**72.7**			50.0	36.3	20	150		02/15/2023	DBA
2-Methylphenol - BSD	EPA-8270	**62.2**	**16**		50.0	31.1	20	150	30	02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether - BS	EPA-8270	**93.0**			50.0	46.5	20	150		02/15/2023	DBA
Bis(2-Chloroisopropyl)Ether - BSD	EPA-8270	**93.4**	**0**		50.0	46.7	20	150	30	02/15/2023	DBA
3&4-Methylphenol - BS	EPA-8270	**63.1**			50.0	31.6	20	150		02/15/2023	DBA
3&4-Methylphenol - BSD	EPA-8270	**54.4**	**15**		50.0	27.2	20	150	30	02/15/2023	DBA
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**96.3**			50.0	48.1	42.2	119		02/15/2023	DBA
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**89.9**	**7**		50.0	45.0	42.2	119	14	02/15/2023	DBA

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DATE: 2/17/2023
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WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	LIMITS RPD	ANALYSIS DATE	ANALYSIS BY
Hexachloroethane - BS	EPA-8270	**82.4**			50.0	41.2	20	150		02/15/2023	DBA
Hexachloroethane - BSD	EPA-8270	**68.5**	**18**		50.0	34.2	20	150	30	02/15/2023	DBA
Nitrobenzene - BS	EPA-8270	**106**			50.0	53.2	20	150		02/15/2023	DBA
Nitrobenzene - BSD	EPA-8270	**95.3**	**11**		50.0	47.6	20	150	30	02/15/2023	DBA
Isophorone - BS	EPA-8270	**86.5**			50.0	43.3	20	150		02/15/2023	DBA
Isophorone - BSD	EPA-8270	**71.4**	**19**		50.0	35.7	20	150	30	02/15/2023	DBA
2-Nitrophenol - BS	EPA-8270	**88.6**			50.0	44.3	20	150		02/15/2023	DBA
2-Nitrophenol - BSD	EPA-8270	**79.1**	**11**		50.0	39.6	20	150	30	02/15/2023	DBA
2,4-Dimethylphenol - BS	EPA-8270	**49.3**			50.0	24.6	20	150		02/15/2023	DBA
2,4-Dimethylphenol - BSD	EPA-8270	**31.7**	**43**	SR1	50.0	15.9	20	150	30	02/15/2023	DBA
Bis(2-Chloroethoxy)Methane - BS	EPA-8270	**105**			50.0	52.5	20	150		02/15/2023	DBA
Bis(2-Chloroethoxy)Methane - BSD	EPA-8270	**94.6**	**10**		50.0	47.3	20	150	30	02/15/2023	DBA
2,4-Dichlorophenol - BS	EPA-8270	**104**			50.0	52.0	20	150		02/15/2023	DBA
2,4-Dichlorophenol - BSD	EPA-8270	**89.3**	**15**		50.0	44.7	20	150	30	02/15/2023	DBA
1,2,4-Trichlorobenzene - BS	EPA-8270	**96.2**			50.0	48.1	29.4	120		02/15/2023	DBA
1,2,4-Trichlorobenzene - BSD	EPA-8270	**86.3**	**11**		50.0	43.1	29.4	120	23	02/15/2023	DBA
4-Chloroaniline - BS	EPA-8270	**89.5**			50.0	44.7	20	150		02/15/2023	DBA
4-Chloroaniline - BSD	EPA-8270	**75.6**	**17**		50.0	37.8	20	150	30	02/15/2023	DBA
Hexachlorobutadiene - BS	EPA-8270	**87.2**			50.0	43.6	20	150		02/15/2023	DBA
Hexachlorobutadiene - BSD	EPA-8270	**83.2**	**5**		50.0	41.6	20	150	30	02/15/2023	DBA
4-Chloro-3-Methylphenol - BS	EPA-8270	**92.5**			50.0	46.3	44	113		02/15/2023	DBA
4-Chloro-3-Methylphenol - BSD	EPA-8270	**77.6**	**17**		50.0	38.8	44	113	18	02/15/2023	DBA
Hexachlorocyclopentadiene - BS	EPA-8270	**75.9**			50.0	38.0	20	150		02/15/2023	DBA
Hexachlorocyclopentadiene - BSD	EPA-8270	**76.8**	**1**		50.0	38.4	20	150	30	02/15/2023	DBA
2,4,6-Trichlorophenol - BS	EPA-8270	**102**			50.0	51.2	20	150		02/15/2023	DBA
2,4,6-Trichlorophenol - BSD	EPA-8270	**94.0**	**9**		50.0	47.0	20	150	30	02/15/2023	DBA
2,4,5-Trichlorophenol - BS	EPA-8270	**108**			50.0	53.8	20	150		02/15/2023	DBA
2,4,5-Trichlorophenol - BSD	EPA-8270	**98.0**	**9**		50.0	49.0	20	150	30	02/15/2023	DBA
2-Chloronaphthalene - BS	EPA-8270	**107**			50.0	53.4	20	150		02/15/2023	DBA
2-Chloronaphthalene - BSD	EPA-8270	**97.2**	**9**		50.0	48.6	20	150	30	02/15/2023	DBA
2-Nitroaniline - BS	EPA-8270	**109**			50.0	54.7	20	150		02/15/2023	DBA
2-Nitroaniline - BSD	EPA-8270	**102**	**7**		50.0	51.1	20	150	30	02/15/2023	DBA
Dimethylphthalate - BS	EPA-8270	**108**			50.0	54.2	20	150		02/15/2023	DBA
Dimethylphthalate - BSD	EPA-8270	**98.4**	**10**		50.0	49.2	20	150	30	02/15/2023	DBA
2,6-Dinitrotoluene - BS	EPA-8270	**114**			50.0	57.0	20	150		02/15/2023	DBA
2,6-Dinitrotoluene - BSD	EPA-8270	**105**	**9**		50.0	52.4	20	150	30	02/15/2023	DBA
3-Nitroaniline - BS	EPA-8270	**106**			50.0	53.1	20	150		02/15/2023	DBA
3-Nitroaniline - BSD	EPA-8270	**91.5**	**15**		50.0	45.7	20	150	30	02/15/2023	DBA
2,4-Dinitrophenol - BS	EPA-8270	**65.5**			50.0	32.7	20	150		02/15/2023	DBA
2,4-Dinitrophenol - BSD	EPA-8270	**72.6**	**10**		50.0	36.3	20	150	30	02/15/2023	DBA

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Stantec
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

CLIENT CONTACT: Carol Shestag
CLIENT PROJECT: TC Systems

DATE: 2/17/2023
ALS SDG#: EV23020025
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	LIMITS RPD	ANALYSIS DATE	ANALYSIS BY
4-Nitrophenol - BS	EPA-8270	**29.1**			50.0	14.6	5	63		02/15/2023	DBA
4-Nitrophenol - BSD	EPA-8270	**29.0**	**1**		50.0	14.5	5	63	25	02/15/2023	DBA
2,4-Dinitrotoluene - BS	EPA-8270	**113**			50.0	56.5	53.1	136		02/15/2023	DBA
2,4-Dinitrotoluene - BSD	EPA-8270	**104**	**8**		50.0	52.0	53.1	136	18	02/15/2023	DBA
2,3,4,6-Tetrachlorophenol - BS	EPA-8270	**109**			50.0	54.5	20	150		02/15/2023	DBA
2,3,4,6-Tetrachlorophenol - BSD	EPA-8270	**100**	**8**		50.0	50.1	20	150	30	02/15/2023	DBA
Diethylphthalate - BS	EPA-8270	**106**			50.0	52.8	20	150		02/15/2023	DBA
Diethylphthalate - BSD	EPA-8270	**96.5**	**9**		50.0	48.2	20	150	30	02/15/2023	DBA
4-Chlorophenyl-Phenylether - BS	EPA-8270	**105**			50.0	52.5	20	150		02/15/2023	DBA
4-Chlorophenyl-Phenylether - BSD	EPA-8270	**95.7**	**9**		50.0	47.9	20	150	30	02/15/2023	DBA
4,6-Dinitro-2-Methylphenol - BS	EPA-8270	**94.2**			50.0	47.1	20	150		02/15/2023	DBA
4,6-Dinitro-2-Methylphenol - BSD	EPA-8270	**95.2**	**1**		50.0	47.6	20	150	30	02/15/2023	DBA
Azobenzene - BS	EPA-8270	**109**			50.0	54.5	20	150		02/15/2023	DBA
Azobenzene - BSD	EPA-8270	**99.1**	**10**		50.0	49.5	20	150	30	02/15/2023	DBA
4-Bromophenyl-Phenylether - BS	EPA-8270	**111**			50.0	55.7	20	150		02/15/2023	DBA
4-Bromophenyl-Phenylether - BSD	EPA-8270	**100**	**11**		50.0	50.0	20	150	30	02/15/2023	DBA
Hexachlorobenzene - BS	EPA-8270	**108**			50.0	54.2	20	150		02/15/2023	DBA
Hexachlorobenzene - BSD	EPA-8270	**96.1**	**12**		50.0	48.0	20	150	30	02/15/2023	DBA
Di-N-Butylphthalate - BS	EPA-8270	**112**			50.0	56.2	20	150		02/15/2023	DBA
Di-N-Butylphthalate - BSD	EPA-8270	**104**	**7**		50.0	52.1	20	150	30	02/15/2023	DBA
Butylbenzylphthalate - BS	EPA-8270	**115**			50.0	57.3	20	150		02/15/2023	DBA
Butylbenzylphthalate - BSD	EPA-8270	**107**	**7**		50.0	53.3	20	150	30	02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	**115**			50.0	57.4	20	150		02/15/2023	DBA
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	**107**	**7**		50.0	53.4	20	150	30	02/15/2023	DBA
Di-N-Octylphthalate - BS	EPA-8270	**127**			50.0	63.3	20	150		02/15/2023	DBA
Di-N-Octylphthalate - BSD	EPA-8270	**118**	**7**		50.0	59.0	20	150	30	02/15/2023	DBA

SURROGATE	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	LIMITS RPD	ANALYSIS DATE	ANALYSIS BY
2-Fluorophenol - BS	EPA-8270	**48.8**			40.0	19.5	29	105		02/15/2023	DBA
2-Fluorophenol - BSD	EPA-8270	**41.9**			40.0	16.8	29	105		02/15/2023	DBA
Phenol-d5 - BS	EPA-8270	**29.8**			40.0	11.9	5	88		02/15/2023	DBA
Phenol-d5 - BSD	EPA-8270	**28.7**			40.0	11.5	5	88		02/15/2023	DBA
Nitrobenzene-d5 - BS	EPA-8270	**97.4**			20.0	19.5	53	125		02/15/2023	DBA
Nitrobenzene-d5 - BSD	EPA-8270	**91.3**			20.0	18.3	53	125		02/15/2023	DBA
2-Fluorobiphenyl - BS	EPA-8270	**74.6**			20.0	14.9	30.3	127		02/15/2023	DBA
2-Fluorobiphenyl - BSD	EPA-8270	**67.3**			20.0	13.5	30.3	127		02/15/2023	DBA
2,4,6-Tribromophenol - BS	EPA-8270	**96.7**			40.0	38.7	45	143		02/15/2023	DBA
2,4,6-Tribromophenol - BSD	EPA-8270	**92.6**			40.0	37.0	45	143		02/15/2023	DBA
Terphenyl-d14 - BS	EPA-8270	**90.5**			20.0	18.1	58	132		02/15/2023	DBA

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	DATE:	2/17/2023
		ALS SDG#:	EV23020025
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Carol Shestag		
CLIENT PROJECT:	TC Systems		

LABORATORY CONTROL SAMPLE RESULTS

SURROGATE	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14 - BSD	EPA-8270	**86.4**			20.0	17.3	58	132		02/15/2023	DBA

SR1 - RPD outside of control limits.

ALS Test Batch ID: 189401 - Water by EPA-200.8 Prepared 02/06/2023 00:00

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	**98.3**			125	123	89.1	110		02/06/2023	EBS
Arsenic - BSD	EPA-200.8	**99.6**	**1**		125	125	89.1	110	10	02/06/2023	EBS
Copper - BS	EPA-200.8	**99.9**			125	125	85.4	109		02/06/2023	EBS
Copper - BSD	EPA-200.8	**101**	**1**		125	126	85.4	109	10	02/06/2023	EBS

ALS Test Batch ID: 189402 - Water by EPA-200.8 Prepared 02/06/2023 00:00

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	RESULT	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	**98.3**			125	123	89.1	110		02/06/2023	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	**99.6**	**1**		125	125	89.1	110	10	02/06/2023	EBS
Copper (Dissolved) - BS	EPA-200.8	**99.9**			125	125	85.4	109		02/06/2023	EBS
Copper (Dissolved) - BSD	EPA-200.8	**101**	**1**		125	126	85.4	109	2.84	02/06/2023	EBS

APPROVED BY

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

EV23020025

CHAIN OF CUSTODY RECORD

Please fill out this LEGIBIBLY, Failure to complete all sections of this form may delay analysis.
Please do not hesitate to contact us should you require any information.

Project Site: TC Systems; 1032 West Marine View Drive, Everett, WA

		Certificate of Analysis	Invoice
COMPANY:	Stantec Consulting		
POSTAL ADDRESS:	1687 114th Ave SE, Suite 100 Bellevue, WA 98004		
CONTACT NAME:	Marc Sauze and Carol Shestag		
CONTACT PHONE:	425-894-2329		
E-MAIL 1:	marc.sauze@stantec.com	☑	☑
E-MAIL 2:	carol.shestag@stantec.com	☑	☑
E-MAIL 3:	Direct Bill the Port of Everett (PO #58778)	☐	☑
E-MAIL 4:		☐	☐
E-MAIL 5:		☐	☐

ANALYSIS REQUIRED

No.	SAMPLE IDENTIFICATION	SVOCs (8270)	cPAHs (8270 SIM)	Total Copper and Arsenic (200.8)	Dissolved Copper and Arsenic (200.8 field filtered)	NWTPH-Dx (TPH-D and TPH-O)							
1	MW-7R 2/2/23 1400	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐
2	MW-20R 2/2/23 1320	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐
3	Dup-1 2/2/23	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐

****see Rob Greer for project-specific list of SVOCs, cPAHs, and the project-specific MRL requirements (emails with Rob Greer Jan 20-27, 2023)

Sampled by: Brian Schoenneman	Shipped Via:	Consignment No.:
Relinquished by: Brian Schoenneman Date: 2/2/23 Print Name: Brian Schoenneman Time: 1500	Received by: [signature] Date: 2/2/23 Print Name: Glen Perry Time: 3:10PM	**FOR LAB USE ONLY** Shipment condition on arrival:
Relinquished by: Date: Print Name: Time:	Received by: Date: Print Name: Time:	Temperature on arrival:

October 25, 2023

ATTACHMENT B

FIELD DATA SHEETS AND BORING LOGS

TC Systems Site

Monitoring Well Installation and Groundwater Monitoring Event

PROJECT: **Former TC Systems Site**
LOCATION: **1032 W. Marine View Dr, Everett, WA**
PROJECT NUMBER: **185751414**

WELL/ PROBEHOLE /BOREHOLE NO: **MW-7R**
PAGE 1 OF 1

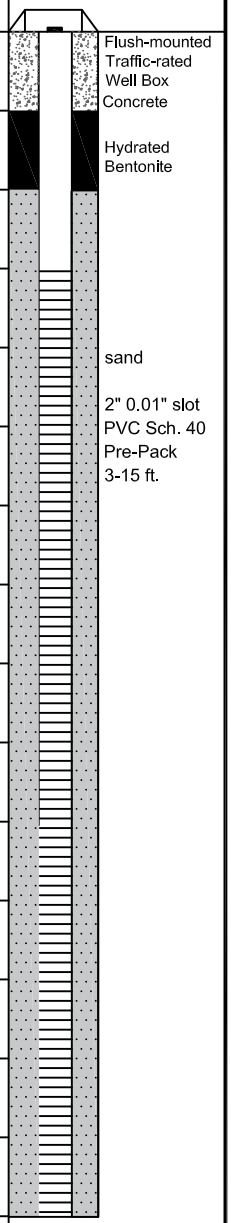
Stantec

DRILLING: **12/12/22** STARTED: **8:45** COMPLETED: **13:00**
INSTALLATION: STARTED: COMPLETED:
DRILLING COMPANY: **Cascade Drilling.**
DRILLING EQUIPMENT: **CME 75**
DRILLING METHOD: **Hollow-Stem Auger**
SAMPLING EQUIPMENT: **18" Split Spoon**

NORTHING (ft): **369003.42** EASTING (ft): **1302059.13**
LATITUDE: **--** LONGITUDE: **--**
GROUND ELEV (ft): **14.2** TOC ELEV (ft): **13.73**
INITIAL DTW (ft): **5.0** BOREHOLE DEPTH (ft): **15**
STATIC DTW (ft): **3.77** WELL DEPTH (ft): **15**
WELL CASING DIA. (in): **2** BOREHOLE DIA. (in): **7**
LOGGED BY: **GMC** CHECKED BY: **MP**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			4" Asphalt						
			gravel						
			Concrete slab with rebar						
			Air knife and vac to 5 feet bgs						
		ML OL	Fill material - silt with wood debris, wet, no odor		MW-7R (4') 9:30 Hand Auger	--	--	4.1	
5									5
10		OL	Organic Soil - black, soft, wet, some gravel and a lot of wood debris, no odor		MW-7R (10') 9:45	0.7	14 10 9	3.1	10
		OL	Same as above- black, wet, wood debris, no odor		MW-7R (15') 10:10	0.8	5 7 7	2.0	
15			Borehole terminated at 15 feet bgs						15

Well Construction



Well Tag ID
BNE 985

PROJECT: **Former TC Systems Site**
LOCATION: **1032 W. Marine View Dr, Everett, WA**
PROJECT NUMBER: **185751414**

WELL/ PROBEHOLE /BOREHOLE NO: **MW-20R**
PAGE 1 OF 1

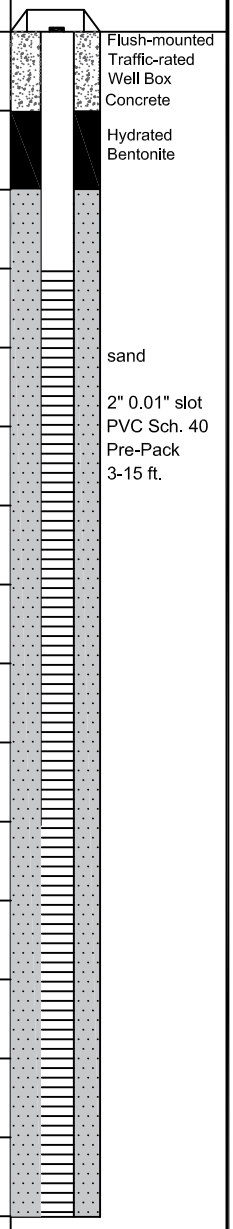
Stantec

DRILLING: **12/12/22** STARTED: **10:00** COMPLETED: **14:30**
INSTALLATION: STARTED: COMPLETED:
DRILLING COMPANY: **Cascade Drilling.**
DRILLING EQUIPMENT: **CME 75**
DRILLING METHOD: **Hollow-Stem Auger**
SAMPLING EQUIPMENT: **18" Split Spoon**

NORTHING (ft): **369002.68** EASTING (ft): **1302118.73**
LATITUDE: **--** LONGITUDE: **--**
GROUND ELEV (ft): **13.5** TOC ELEV (ft): **12.91**
INITIAL DTW (ft): **4.5** BOREHOLE DEPTH (ft): **15**
STATIC DTW (ft): **4.61** WELL DEPTH (ft): **15**
WELL CASING DIA. (in): **2** BOREHOLE DIA. (in): **7**
LOGGED BY: **GMC** CHECKED BY: **MP**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			4" Asphalt						
			Gravel						
			Concrete slab						
			Air knife and vac to 5 feet bgs						
		ML OL	Fill material - silt gravel, wood debris, wet, no odor		MW-20R (4') 10:15 Hand Auger	--	--	2.9	
5									
							3		
10		OL	Organic Soil - black, soft, wet, some gravel and many wood debris, no odor		MW-20R (10') 11:15	0.6	3 5	2.7	
		OL	Same as above- black, wet, wood debris, no odor		MW-20R (15') 10:10	0.7	5 8 6	2.1	
15			Borehole terminated at 15 feet bgs						

Well Construction



Well Tag ID BNE 986

Stantec

SCOPE OF WORK
GROUNDWATER MONITORING

1687 114th Avenue Southeast, Suite 100
Bellevue, Washington 98004
Tel. 425.298.7300
Fax 425.688.8835

PROJECT NAME: TC Systems
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA

Name(s): RScheerman Date: 2/2/23 Project Manager: Marc Sauze
Arrival Time: 0809 Time of Arrival Call-In: 0809 Weather Conditions: Clear
Departure Time: 1432 Time of Departure Call-In: 1432 Temperature: 37-48

SCOPE OF WORK SUMMARY **REVIEWED:** YES NO

8:00-8:30am - Pace Engineers will arrive, conduct tailgate meeting - Pace to survey new wells MW-7R and MW-20R

Pick up sample containers from ALS (any time after 8am)

Gauge 19 wells: MW-1 through MW-6, MW-7R, MW-8, MW-9R, MW-10 through MW-17, MW-20R, and MW-21

Sample 2 wells: MW-7R and MW-20R + Duplicate

****2 new wells, bring tubing. Sampling dissolved metals - bring 2 field filters

EQUIPMENT: **REVIEWED:** YES NO

SAMPLE SERVE TABLET:	YES	(No)	OTHER:
DTW INDICATOR:	(YES)	No	
YSI:	(YES)	No	
PID:	(YES)	No	
GEO PUMP:	(YES)	No	
EXTRA TUBING	(YES)	No	
NITRATE / SULFATE METER:	YES	(No)	

SPECIAL NOTES: Bring 2 field filters

WELL ID	GAUGE	SAMPLE	ANALYSIS	DTW	Time Notes	DTB
MW-7R	Yes	Yes	NWTPH-Dx, cPAHs (8270Sim), SVOCs (8270), Total CU and AS (200.8), Dissolved CU and AS (200.8 field filtered)	3.77	0935	14.25
MW-20R	Yes	Yes	NWTPH-Dx, cPAHs (8270Sim), SVOCs (8270), Total CU and AS (200.8), Dissolved CU and AS (200.8 field filtered)	4.21	0929	14.42
Duplicate	--	Yes	NWTPH-Dx, cPAHs (8270Sim), SVOCs (8270), Total CU and AS (200.8), Dissolved CU and AS (200.8 field filtered)			
MW-1	Yes	No	--	5.00	1638	12.80
MW-2	Yes	No	--	4.22	1033	13.05
MW-3	Yes	No	--	4.78	1028	13.08
MW-4	Yes	No	--	5.16	1021	13.02
MW-5	Yes	No	--	5.08	1014	12.95
MW-6	Yes	No	--	3.87	0930	12.73
MW-8	Yes	No	--	4.83	1216	12.30
MW-9R	Yes	No	--	4.90	1148	15.00
MW-10	Yes	No	--	5.00	1159	15.31
MW-11	Yes	No	--	3.91	1159	12.54
MW-12	Yes	No	--	4.59	1209	15.09
MW-13	Yes	No	--	5.51	1644	13.06
MW-14	Yes	No	--	5.55	0935	12.70
MW-15	Yes	No	--	5.69	0845	13.00
MW-16	Yes	No	--	5.14	1111	15.14
MW-17	Yes	No	--	5.73	0840	13.02
MW-21	Yes	No	--	5.14	1204	14.42
SPECIAL NOTES:						
MW-18				4.36	0902	15.09
MW-19				3.58	0906	15.11
MW-7R				3.77	0935	14.25
MW-20R				4.61	0943	14.42

Stantec

1687 114th Avenue Southeast,
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Bellevue, Washington 98004
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GROUNDWATER MONITORING AND GAUGING

PROJECT NAME: TC Systems
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA **PAGE:**

Name(s): Brian Schoenaman Date: 2/2/23 Project Manager: Marc Sauze

Arrival Time: 0829 Time of Arrival Call-In: Weather Conditions: Clear

Departure Time: 1432 Time of Departure Call-In: Temperature: 37-48

Well ID	Gauge Order	Sample Order	Analysis	Time	DTW (ft)	DTB (ft)	Sample (Y/N)	Well Tag ID	Comments
MW-7R			8270, 8270sim, 2008 NW TPH DX	0935	3.77	14.25	Y		
MW-20R			"	0924	4.61	14.42	Y		
MW-1				1038	5.00	12.80	N		
MW-2				1033	4.22	13.05	N		
MW-3				1028	4.78	13.08	N		
MW-4				1021	5.46	13.02	N		
MW-5				1014	5.08	12.95	N		
MW-6				0938	3.87	12.73	N		
MW-8				1216	4.82	12.30	N		
MW-9R				1148	4.90	15.00	N		
MW-10				1154	5.80	13.31	N		
MW-11				1159	3.91	12.54	N		
MW-12				1209	4.59	15.04	N		
MW-13				1044	5.51	13.00	N		
MW-14				0935	5.55	12.70	N		
MW-15				0845	5.69	13.00	N		
MW-16				1111	5.14	15.14	N		
MW-17				0840	5.73	13.02	N		
MW-18				0902	4.36	15.09	N		
MW-19				0906	3.58	15.11	N		
MW-21				1209	5.14	14.42	N		

DTW: Depth to Water
DTB: Depth to Bottom

Stantec
1687 114th Avenue Southeast, Suite 100
Bellevue, Washington 98004
Tel. 425.298.7300
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DAILY FIELD REPORT

PROJECT NAME: TC Systems
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA **PAGE:**

Name(s): E Silverman Date: 2/2/23 Project Manager: Marc Sauze
Arrival Time: 0809 Time of Arrival Call-In: 0809 Weather Conditions: Clear
Departure Time: 1432 Time of Departure Call-In: 1432 Temperature: 37-48

HEALTH AND SAFETY ASSESSMENT **TIME:**

✓	Traffic and delineation	✓	HASP/RMS-1 and hospital directions	
✓	PPE	✓	RMS-2	
✓	Weather/Cold stress/Heat Illnesses	✓	Stop Work Authority	Other:
✓	Slips, trips, falls	✓	12 Critical Risks	~~NITRA~~
✓	Proper tools for each task	✓	SWP/JSA	
✓	Equipment Handling	✓	First aid kit	
✓	Proper lifting of heavy items	✓	Fire extinguisher	

INTENDED SCOPE OF WORK

Stantec: Gauge 19 wells onsite Sample MW-7R & MW-20R

Contractor: Pace Engineering

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES:

Did HAS initiated RMS-2. Went inside Bldg B first. Moved a pallet to access MW-14. Gauged MWs 14, 15, & 17. Put pallet back. Went over to Bldg A. Gauged MWs 18 & A. Returned to MW-20R. Did HAS with Pace Engineering. Pace started their survey work.

MW-14 Well casing too high to fit a J-Plug. I cut the well casing down to accomidate the J-Plug. Pace Engineering surveyed the vertical change.

Gauged all the wells onsite.
Purged & Sampled MW-7R & MW-20R.

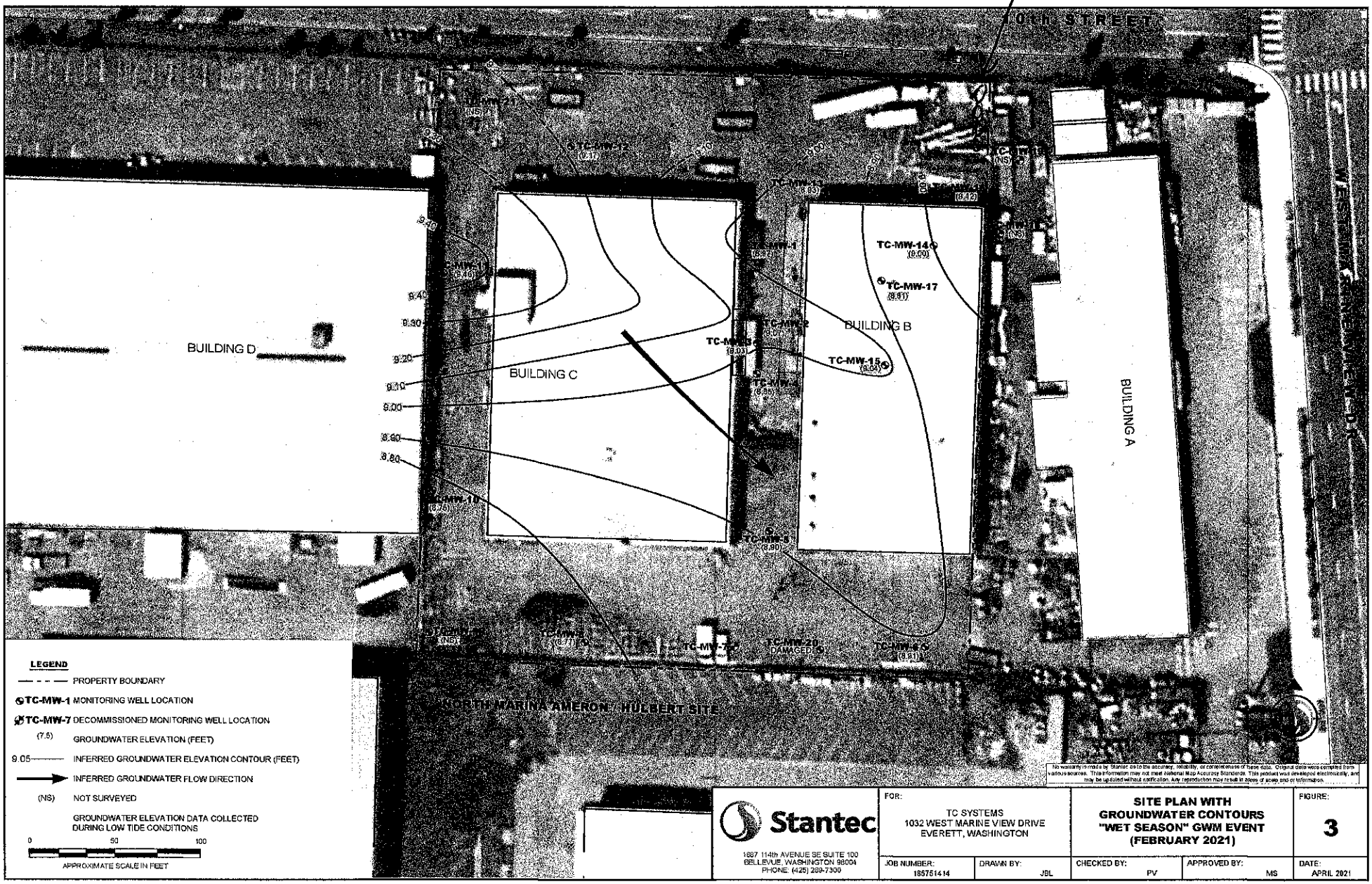
Put purge water in drum located at the NE Corner of the property.

Took samples to ALS Lab.

Project Name	TC Systems
Site Address	1032 West Marine View Drive
City and State	Everett, Washington
Arcadis Project No.	
Otak Project No.	31027F
Horizontal Datum:	NAD 83/98
Vertical Datum:	N.A.V.D. 88
Units:	US survey feet
Date	10-May-11

Name	Northing	Easting	Casing Elevation	Ground Elevation
MW-1	369242.53	1302085.72	13.94	14.37
MW-2	369196.25	1302083.63	13.29	13.79
MW-3	369179.56	1302083.22	13.81	14.06
MW-4	369161.45	1302082.93	14.29	14.58
MW-5	369069.20	1302090.33	13.96	14.43
MW-6	369001.13	1302181.91	12.77	13.25
MW-7	369001.08	1302069.70	12.88	13.46
MW-8	369003.54	1301982.16	13.58	14.06
MW-9	369010.61	1301892.46	13.72	13.99
MW-10	369092.93	1301892.77	14.50	14.90
MW-11	369220.39	1301899.18	13.46	13.86
MW-12	369295.02	1301974.20	13.80	14.06
MW-13	369269.18	1302120.28	14.43	14.87
MW-14	369236.99	1302186.95	14.62	14.87
MW-15	369166.53	1302158.14	14.63	14.89
MW-16	369266.45	1302195.79	~~14.45~~ Changed	14.73
MW-17	369216.10	1302155.93	14.52	14.89

9 Each
55 Gal
Drums
2 Soil
2 Water



LEGEND

- PROPERTY BOUNDARY
- TC-MW-1 MONITORING WELL LOCATION
- TC-MW-7 DECOMMISSIONED MONITORING WELL LOCATION
- (7.5) GROUNDWATER ELEVATION (FEET)
- 9.05 INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- (NS) NOT SURVEYED

GROUNDWATER ELEVATION DATA COLLECTED DURING LOW TIDE CONDITIONS

0 50 100

APPROXIMATE SCALE IN FEET

Stantec
1607 114th AVENUE SE SUITE 100
BELLEVUE, WASHINGTON 98004
PHONE: (425) 289-7300

FOR:
TC SYSTEMS
1032 WEST MARINE VIEW DRIVE
EVERETT, WASHINGTON

SITE PLAN WITH GROUNDWATER CONTOURS "WET SEASON" GWM EVENT (FEBRUARY 2021)

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185751414	JBL	PV	MS	APRIL 2021

E:\BM\ CADD (US0332-PPFSS01\00_OTHER OFFICES\Bellevue, WA\185751414_TcSystems\TC-Norton_Everett\WA-2021-GW.dwg modified by JHeberman on May 13, 2021 - 15:42

Stantec
1687 114th Avenue Southeast, Suite 100
Bellevue, Washington 98004
Tel. 425.298.7300
Fax 425.688.8835

Investigation-Derived Waste Inventory Sheet

PROJECT NAME: TC Systems
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA **PAGE:**

Name(s): B Scheuerman Date: 2/2/23 Project Manager: Marc Sauze
Arrival Time: _____ Time of Arrival Call-In: _____ Weather Conditions: _____
Departure Time: _____ Time of Departure Call-In: _____ Temperature: 40s

Waste Source	Drum/Container ID Number	Date Generated	Contents (solids, liquids)	Volume	Drum Location	Comments
Soil Cuttings		12/12/22	Solids	55	NE Corner of Property	
Soil Cuttings		12/12/22	Solids	55	NE Corner of Property	
Development H2O		12/12/22	Liquid	55	NE Corner of Property	
GWM Purge H2O		2/2/23	Liquid	55	NE Corner of Property	

CHAIN OF CUSTODY RECORD

Please fill out this LEGIBIBLY, Failure to complete all sections of this form may delay analysis.
Please do not hesitate to contact us should you require any information.

Project Site: TC Systems; 1032 West Marine View Drive, Everett, WA

		Certificate of Analysis	Invoice
COMPANY:	Stantec Consulting		
POSTAL ADDRESS:	1687 114th Ave SE, Suite 100 Bellevue, WA 98004		
CONTACT NAME:	Marc Sauze and Carol Shestag		
CONTACT PHONE:	425-894-2329		
E-MAIL 1:	marc.sauze@stantec.com	☑	☑
E-MAIL 2:	carol.shestag@stantec.com	☑	☑
E-MAIL 3:	Direct Bill the Port of Everett (PO #58778)	☐	☑
E-MAIL 4:		☐	☐
E-MAIL 5:		☐	☐

ANALYSIS REQUIRED

No.	SAMPLE IDENTIFICATION	SVOCs (8270)	cPAHs (8270 SIM)	Total Copper and Arsenic (200.8)	Dissolved Copper and Arsenic (200.8 field filtered)	NWTPH-Dx (TPH-D and TPH-O)
	MW-7R 2/2/23 1400	☑	☑	☑	☑	☑
	MW-20R 2/2/23 1320	☑	☑	☑	☑	☑
	Dup-1 2/2/23	☑	☑	☑	☑	☑

****see Rob Greer for project-specific list of SVOCs, cPAHs, and the project-specific MRL requirements (emails with Rob Greer Jan 20-27, 2023)

Sampled by: Brian Schoenneman
Shipped Via:
Consignment No.:

Relinquished by: Brian Schoenneman Date: 2/2/23
Print Name: Brian Schoenneman Time: 1500
Received by: Glen Perry Date: 2/2/23
Print Name: Glen Perry Time: 3:10PM

Relinquished by: Date:
Print Name: Time:
Received by: Date:
Print Name: Time:

FOR LAB USE ONLY
Shipment condition on arrival:
Temperature on arrival:

Stantec

GROUNDWATER MONITORING
FIELD DATA SHEET

1687 114th Avenue Southeast, Suite 100
Bellevue, Washington 98004
Tel. 425.298.7300
Fax 425.688.8835

PROJECT NAME: TC Systems
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA
WELL ID: TC-MW-7R + Dup-1
PAGE:

Name(s): B. Schoonman | Date: 2/22/23 | Project Manager: Marc Sauze
Arrival Time: | Time of Arrival Call-In: | Weather Conditions: Cloudy Breezy
Departure Time: | Time of Departure Call-In: | Temperature: 45

Date Purged: 2/2/23 | Start (2400hr): 1339 | End (2400hr): 1354
Date Sampled: 2/2/23 | Sample Time (2400hr): 1400
Sample Type: Groundwater | Low-Flow Used? X

Casing Diameter: 2" ✓ | 3" | 4"
Casing Volume (Gallons per foot): (0.17) | (0.38) | 0.67

Depth to Bottom (ft): 14.25
Depth to Water (ft): 3.77
Water Column Height (ft): 10.48
Actual Purge ~~(gal)~~ mL: 3000

Field Measurements

Date	Time	Volume mL	Temp °C	Conductivity µS	pH	2T Color	DO mg/L	O.R.P.
2/2/23	1342	600	13.3	0.57	6.91	Grey	0.34	-113.7
	1345	1200	13.4	0.55	6.85	Clear	0.30	-118.0
	1348	1800	13.3	0.54	6.82	Clear	0.26	-118.7
	1351	2400	13.3	0.53	6.82	Clear	0.24	-119.4
	1354	3000	13.3	0.53	6.83	Clear	0.23	-120.6

Calculated Variance of Final Three Samples:
Temp: | Conductivity: | pH: | Color: | O.R.P.:
Acceptable Variance Limits:
Temp: | Conductivity: | pH: | Color: | O.R.P.:

Depth to Purge Intake During Purge: 14.25 | **Sample DTW:** 3.76

Quantity of Sample Vessel & Preservative:	Analyses:

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No
Well Pad Condition: OK | Well Casing Condition: OK
Well Vault Condition: OK | Seal Present?: ✓ | Bolts Present?:
Well Integrity: OK | Well Tag: X | Lock #:

Signature: Brian Schoonman

Stantec
1687 114th Avenue Southeast, Suite 100
Bellevue, Washington 98004
Tel. 425.298.7300
Fax 425.688.8835

GROUNDWATER MONITORING
FIELD DATA SHEET

PROJECT NAME: TC Systems **WELL ID:** TC-MW-20R
PROJECT LOCATION: 1032 West Marine View Drive, Everett, WA **PAGE:**

Name(s): BSchoenmann Date: 2/2/23 Project Manager: Marc Sauze
Arrival Time: _____ Time of Arrival Call-In: _____ Weather Conditions: Breezy
Departure Time: _____ Time of Departure Call-In: _____ Temperature: 40

Date Purged: 2/2/23 Start (2400hr): 1257 End (2400hr): 1312
Date Sampled: 2/2/23 Sample Time (2400hr): 1320
Sample Type: Groundwater Low-Flow Used? X

Casing Diameter: 2" ✓ 3" _____ 4" _____
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 14.42
Depth to Water (ft): 4.61
Water Column Height (ft): 9.81
Actual Purge (~~gal~~): mL 3000

Field Measurements

Date	Time	Volume mL	Temp °C	Conductivity mS	pH	Color	DO mg/L	O.R.P.
2/2/23	1300	600	11.7	2.62	6.70	Grey	0.61	-55.0
	1305	1200	11.5	2.64	6.50	Clear	0.52	-79.0
	1306	1800	11.5	2.65	6.52	Clear	0.42	-84.1
	1309	2400	11.4	2.65	6.54	Clear	0.36	-87.7
	1312	3000	11.3	2.65	6.55	Clear	0.34	-89.6

Calculated Variance of Final Three Samples:
Temp: _____ Conductivity: _____ pH: _____ Color: _____ O.R.P.: _____
Acceptable Variance Limits:
Temp: _____ Conductivity: _____ pH: _____ Color: _____ O.R.P.: _____

Depth to Purge Intake During Purge: 14.42 **Sample DTW:** 4.61

Quantity of Sample Vessel & Preservative:	Analyses:

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No _____
Well Pad Condition: OK Well Casing Condition: Good
Well Vault Condition: OK Seal Present?: Yes Bolts Present?: _____
Well Integrity: OK Well Tag: Yes Lock #: _____

Signature: Brian Schoenmann