May 9, 2014 14-810

Mr. Mark Chandler
Vice President of Environmental Services
TOC Holdings Company
2737 W. Commodore Way
Seattle, WA 98199

Subject: Groundwater Monitoring Report
First Quarter, 2014
TOC Facility No. 01-169
851 North Broadway Street, Everett, Washington
Washington State Department of Ecology Site# 54678156

This report summarizes the results of the First Quarter 2014 groundwater sampling event conducted at the TOC Holdings Co. Facility No. 01-169 property located at 851 North Broadway Street in Everett, Washington (the Property). The Property location is shown on Figure 1. This report presents a summary of the site background, the field activities, and the results of the quarterly monitoring event.

Site Background

The subject site is located in a commercial area of North Everett and is currently used as a retail shopping center. Tenants include a Subway restaurant and a 7-Eleven convenience store. Time Oil Co. (currently TOC Holdings Co.) formerly owned and operated a retail gasoline service station on the Property. Remedial activities began in December 2003 when four underground storage tanks (USTs), two fuel-dispensing pump islands, product distribution piping, and associated petroleum-contaminated soil (PCS) were removed from the Property. Some PCS was left in place during the remedial excavation due to the presence of an adjacent sidewalk and a 48-inch-diameter sewer line in the vicinity of the UST system.

Analytical data from subsurface investigations indicates that concentrations of gasoline range petroleum hydrocarbons (GRPH); diesel range petroleum hydrocarbons (DRPH); oil range petroleum hydrocarbons (ORPH); benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tertiary-butyl ether (MTBE); and naphthalene exceeded their respective Washington State Model Toxics Control Act (MTCA) Method A cleanup levels (CULs) in soil and/or groundwater beneath the Property. Additionally, elevated concentrations of metals including antimony, arsenic, and lead were also present in soil and/or groundwater beneath the Property and are considered to be a result of the former ASARCO smelter and are included in Ecology's Everett Smelter Site.

Based on our current knowledge of the site, PCS exists beneath the central and northwestern portions of the Property in the vicinity of the UST excavation, extending beneath a portion of the North Broadway right-of-way, and contamination of a discontinuous, perched water-bearing zone located in the vicinity of

the UST excavation.

Remedial measures have been implemented at the site in an effort to mitigate the residual soil and groundwater contamination. A dual-phase extraction (DPE) remediation system was installed at the Property and operated from 2006 to July 2009 when it was shut down due to a change in land use. A new DPE system was installed in June 2011 and started in the Second Quarter 2012. The new DPE system includes soil vapor extraction (SVE) and groundwater extraction and treatment. The SVE system includes monitoring wells OW02, MW08, RW02 through RW04, and RW08 through RW11. Groundwater is extracted for treatment continuously at RW02, RW03, and RW10 and intermittently at OW02, RW09, and RW11.

Site features including the location of historical facilities and monitoring well are provided on Figure 2.

Scope of Work

The monitoring event was performed on March 4 through 6, 2014 to evaluate the environmental quality of groundwater beneath the Site and to eventually demonstrate compliance with MTCA cleanup regulations. The monitoring event included the following activities:

- Measuring depth to groundwater in monitoring wells MW01, through MW13; remediation wells RW01, RW03 through RW11; and observation well OW01. Monitoring wells MW02, MW06, MW08, and MW10 were dry. Water levels in remediation wells RW02 and observation well OW02 were not measured due to lack of a smaller sized electronic water level indicator probe.
- Collecting groundwater samples from monitoring wells MW01, MW09, MW11, MW13 and remediation wells RW01, RW06, and RW07 through RW11.
- Collecting a field duplicate sample from monitoring well RW07 for quality assurance/quality control (QA/QC) purposes.

This report presents field activities performed during the monitoring event, laboratory analytical results, and a description of upcoming work. Current and historical groundwater elevations and sample analytical results are presented in Table 1.

Groundwater Sampling Procedures

Depth to water was measured in the wells on March 4, 2014. Prior to sample collection, the well cap on each well was removed and the water level was allowed to equilibrate prior to measuring the depth to water. The depth to water in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north end of the top of the PVC casing) at each well.

Groundwater samples were collected on February March 4, 2014. Field duplicates were collected from RW07 for quality assurance/quality control (QA/QC) purposes.

Prior to groundwater sampling, monitoring wells were purged and sampled in accordance with U.S. Environmental Agency (EPA) guidance for low-flow sampling[1]. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each well. During purging, water quality was monitored using a YSI or Quanta multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each well was purged until all six water quality parameters stabilized or the minimum parameter subset of pH, specific conductance, temperature, and turbidity and/or dissolved oxygen stabilized.

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to Friedman & Bruya, Inc. of Seattle, Washington, under standard chain-of-custody protocols for laboratory analysis.

Laboratory Analysis

The analytical protocol followed at the site includes the required testing for petroleum releases for gasoline (Table 830-1 in the MTCA Cleanup Regulations Chapter 173-340 WAC). The analytical methods used include:

- GRPH using Northwest Method NWTPH-Gx.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021B.

Purge water generated during the monitoring event was placed in an appropriately labeled 55-gallon steel drum and temporarily stored on the Property pending receipt of analytical data and proper disposal.

Groundwater Conditions

Groundwater levels measured on March 4, 2014, ranged from 9.64 feet (remediation well RW06) to 26.33 feet (remediation well MW08) below the top of the monitoring well casings (Table 1). Groundwater elevations ranged from 73.16 feet above mean sea level (amsl) in OW01 to 89.07 feet (amsl) in OW01.

Groundwater levels measured in the Site's 20 wells historically have ranged from 6.27 feet (observation well OW01) to 26.33 feet (monitoring well MW08) below the top of the monitoring well casings (Table 1). Within the UST system excavation area, groundwater contours indicate that groundwater within the UST excavation forms a depression centered on remediation well RW10. Outside of the UST system excavation area, groundwater levels have historically fluctuated drastically and are interpreted to be strongly controlled by the operation of the dual phase extraction (DPE) remediation system and subsurface soil

[1] *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (*April 1996). EPA/540/S-95/504*

conditions (see SoundEarth 2013[2] for additional information). As a result, only wells near the UST excavation are used to interpret groundwater conditions. Groundwater conditions for this event are consistent with past measurements and the apparent groundwater flow direction is radial within the UST system excavation area.

Groundwater Sampling Results

Laboratory analytical results from the monitoring event were compared to applicable MTCA Method A or B cleanup levels for groundwater (cleanup levels) and are summarized below (Figure 4, Table 1).

With the exception of RW08, there were no detections of GRPH or BETX in the wells sampled. At RW08, GRPH exceeded the MTCA Method A cleanup level. BTEX was also detected, but below cleanup levels. This is the first analysis of groundwater at RW08 since installation in August 2011; the well is typically dry.

Data Quality Review

AEC performed QA/QC review of the analytical results, which included a review of accuracy and precision of the data supplied by the laboratory. The relative percent difference (RPD) for the field duplicate MW99, which was collected by AEC from RW07, could not calculated due to analytes below their respective laboratory reporting limit. All other quality control criteria are acceptable, no action is required, and analytical results are considered usable to meet the project objectives. A copy of the laboratory report is provided in Attachment A.

Remediation System Performance

AEC preformed monthly operations and maintenance activities on the site on three dates, during the First Quarter 2014 (January 27, February 25, and March 14). O&M activities included the collection of air samples from the effluent sample ports on the SVE discharge stack and air stripper discharge stack and collection of treated groundwater from a sample port on the groundwater effluent pump.

For each event, air samples were collected in two one-liter tedlar bags and submitted to Friedman & Bruya for analysis. The air samples were analyzed for GRPH by method NWTPH-Gx and for BTEX by EPA Method 8021B. Quarterly groundwater influent samples were collected in three 40ml-VOAs preserved with HCL and were analyzed for GRPH by method NWTPH-Gx and for BTEX by EPA Method 8021B. Effluent samples were collected in three 40ml-VOAs preserved with HCL, one one-liter amber bottle, and two 500 ml poly bottles, one unpreserved and one preserved with nitric acid. The effluent water samples were analyzed for GRPH by method NWTPH-Gx, for BTEX by EPA Method 8021B, total lead by EPA Method 6020/200.8, oil and grease by EPA Method 1664A, mercury by EPA Method 1631E, and flashpoint by EPA Method 1010.

[2] SoundEarth Strategies, March 20, 2013). Remedial Investigation Reports, TOC Holding Co. Facility No. 01-169, 851 North Broadway, Everett, WA. Prepared for TOC Holdings Co., 2737 Commodore Way, Seattle, WA.

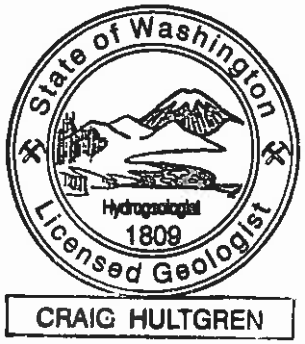
During the first Quarter 2014 the remediation system removed an estimated 274.7 pounds of GRPH as vapor and 9,576.6 gallons of groundwater was treated below sanitary sewer discharge criteria and was discharged to the sanitary sewer. A summary of system performance is presented on Table 2.

Work Planned

AEC will perform a monitoring event at the Property in Second Quarter 2014, the results of which will be included in a groundwater monitoring report. O&M activities will be conducted monthly.

Sincerely,

Craig Hultgren, LHG
Senior Geologist/Project Manager



Figures
Figure 1 - Site Location Map
Figure 2 - Site Features
Figure 3 - Groundwater Elevation Contours
Figure 4 - Groundwater Analytical Results

Table
Table 1 – Summary of Groundwater Data
Table 2 – Summary of System Performance

Attachments
Attachment A – Groundwater Sample Collection Forms
Attachment B – Laboratory Report and Chain-of-Custody Documentation

cc: Eugene Freeman, Washington State Department of Ecology, Northwest Region

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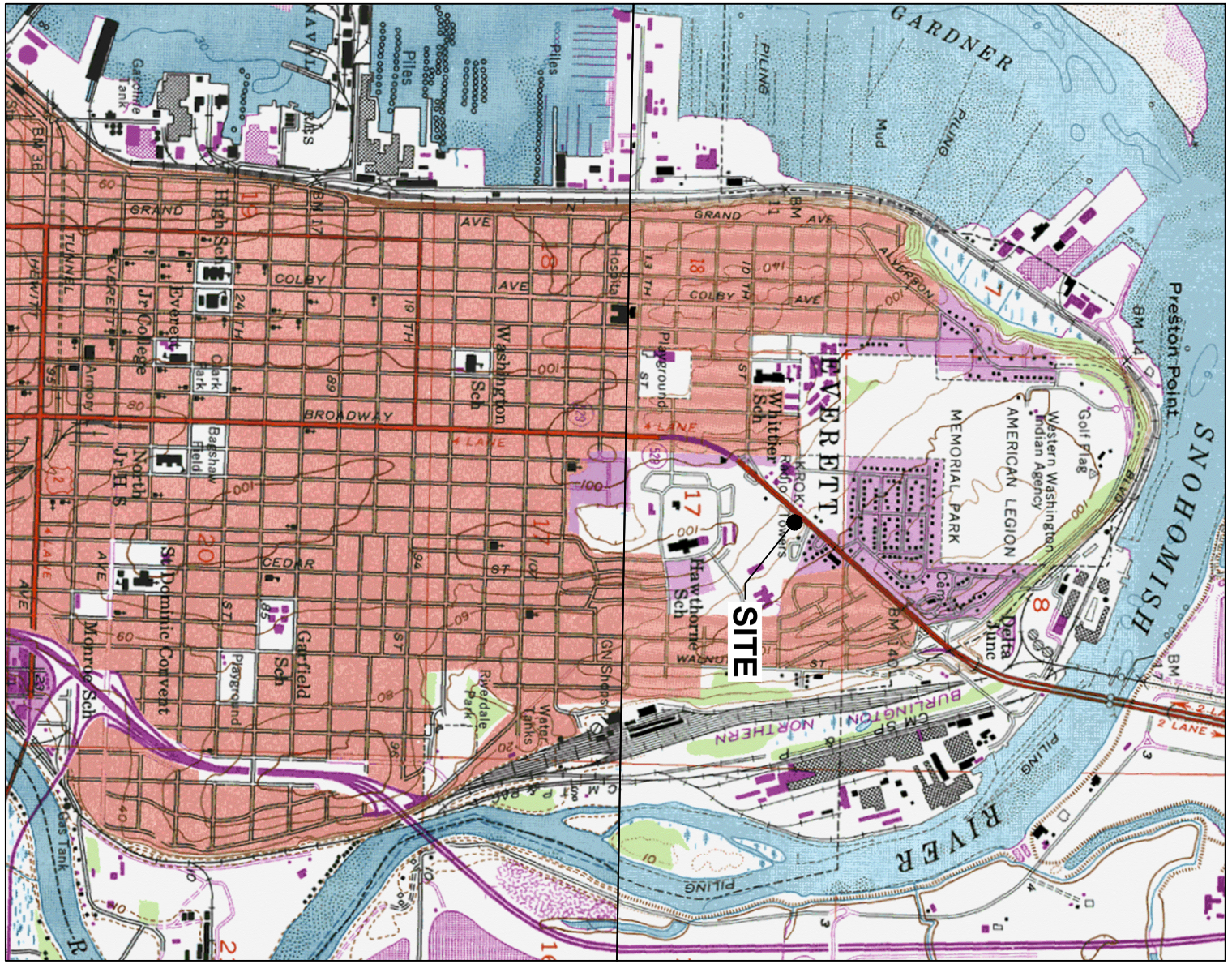
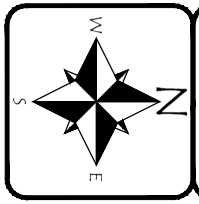
NOTE(S):
USGS, MARYSVILLE QUADRANGLE
WASHINGTON-SNOHOMISH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)





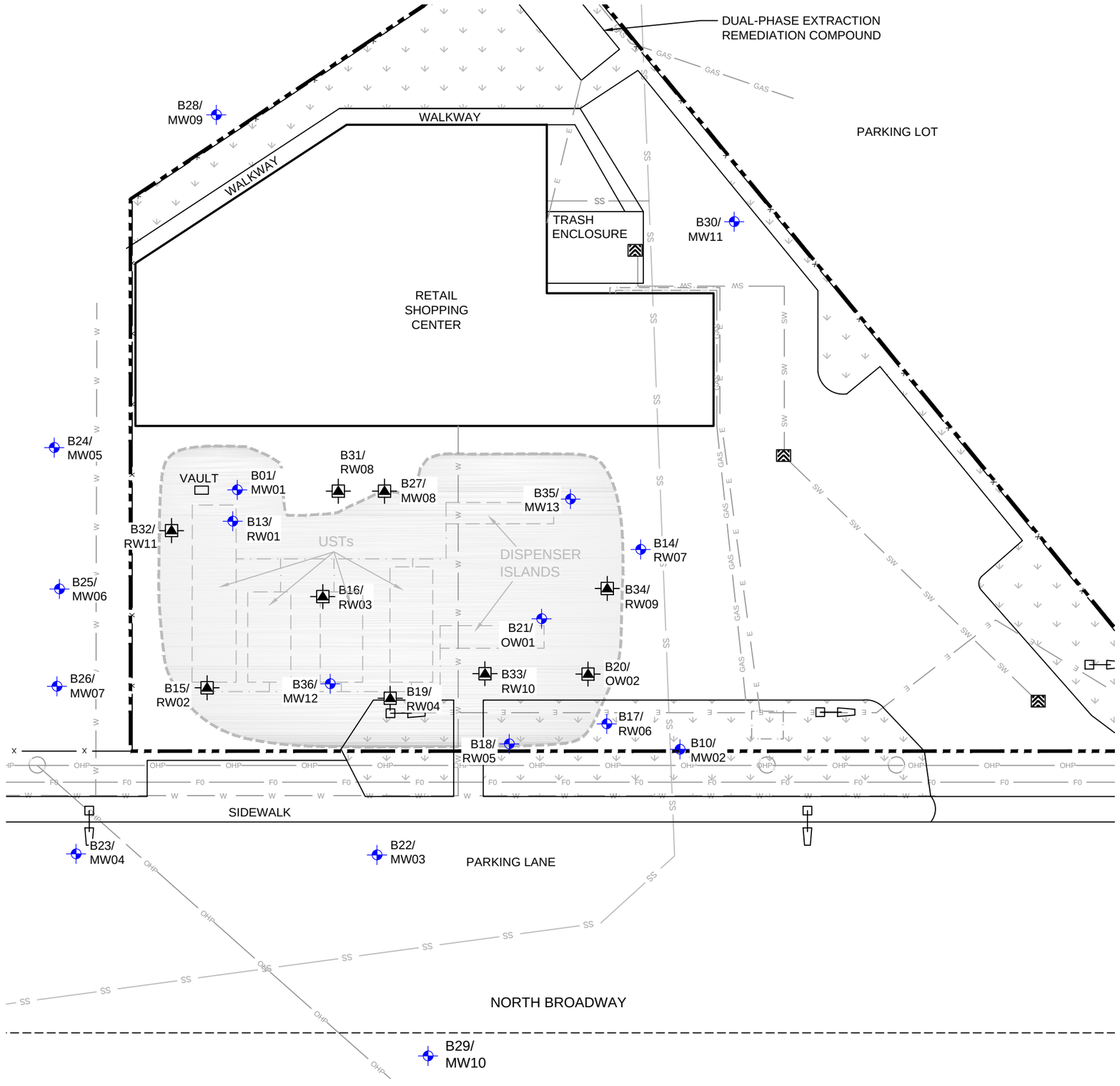
0 2000 4000
SCALE IN FEET
1" = 2000'

ANDERSON ENVIRONMENTAL CONTRACTING LLC
AEC

DATE: 4-17-14
DWN: JJT
CHK:
APPROVED:
PRJ. MGR: CH
PROJECT NO: 14-810

FIGURE 1
SITE LOCATION MAP

TOC HOLDINGS CO. FACILITY NO. 01-169
851 N. BROADWAY
EVERETT, WA.



LEGEND

B01/ MW01	GROUNDWATER MONITORING WELL (SOUNDEARTH)
RW01	REMEDIATION WELL (SOUNDEARTH)
	CATCH BASIN
	POWER POLE
	AREA LIGHT
	PROPERTY BOUNDARY
OHP	OVERHEAD POWER LINE
E	BELOW GRADE ELECTRICAL LINE
FO	FIBER OPTIC LINE
SW	STORMWATER LINE
SS	48-INCH-DIAMETER SEWER LINE
W	WATER LINE
GAS	GAS LINE
x	FENCE
	FORMER SITE FEATURE
	FORMER FUEL DELIVERY PIPING
	EXCAVATION AREA (2003)
EPI	ENVIRONMENTAL PARTNERS, INC.
GEI	GEOENGINEERS, INC.
SOUNDEARTH	SOUNDEARTH STRATEGIES, INC.
UST	UNDERGROUND STORAGE TANK

FIGURE 2
SITE FEATURES
TOC HOLDINGS CO. FACILITY NO. 01-169
851 N. BROADWAY
EVERETT, WA.

DATE: 4-17-14
DWN: JJT
CHK:
APPROVED:
PRJ. MGR: CH
PROJECT NO: 14-810

AEC
ANDERSON ENVIRONMENTAL CONSULTING, LLC

0 20 40
SCALE IN FEET
1" = 20'

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W E
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DUAL-PHASE EXTRACTION REMEDIATION COMPOUND

B28/ MW09

WALKWAY

WALKWAY

PARKING LOT

TRASH ENCLOSURE

B30/ MW11

RETAIL SHOPPING CENTER

'ACANT LOT

B24/ MW05

VAULT

B01/ MW01 86.07

B31/ RW08

B27/ MW08

B35/ MW13 86.78

B32/ RW11

B13/ RW01 88.57

USTs

DISPENSER ISLANDS

B14/ RW07 88.72

B25/ MW06

B16/ RW03

B34/ RW09 88.11

B21/ OW01

B26/ MW07

B15/ RW02

B36/ MW12 86.62

B19/ RW04 83.07

B33/ RW10 81.54

B20/ OW02

B17/ RW06 88.60

B18/ RW05

B10/ MW02

GATE

SIDEWALK

B23/ MW04

B22/ MW03

PARKING LANE

NORTH BROADWAY

B29/ MW10

LEGEND

- B01/ MW01 — GROUNDWATER MONITORING WELL (SOUNDEARTH)
- RW01 — REMEDIATION WELL (SOUNDEARTH)
- CATCH BASIN
- POWER POLE
- PROPERTY BOUNDARY
- FENCE
- FORMER SITE FEATURE
- FORMER FUEL DELIVERY PIPING
- UST — UNDERGROUND STORAGE TANK
- 88.72 — GROUNDWATER SURFACE ELEVATION
- GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FIGURE 3
GROUNDWATER ELEVATION CONTOURS
FOR MARCH 2014
TOC HOLDINGS CO. FACILITY NO. 01-169
851 N. BROADWAY
EVERETT, WA.

DATE: 5-9-14
DWN: JJT
CHK:
APPROVED:
PRJ. MGR: CH
PROJECT NO: 14-810

ANDERSON ENVIRONMENTAL CONSULTING, LLC

SCALE IN FEET
0 20 40
1" = 20'

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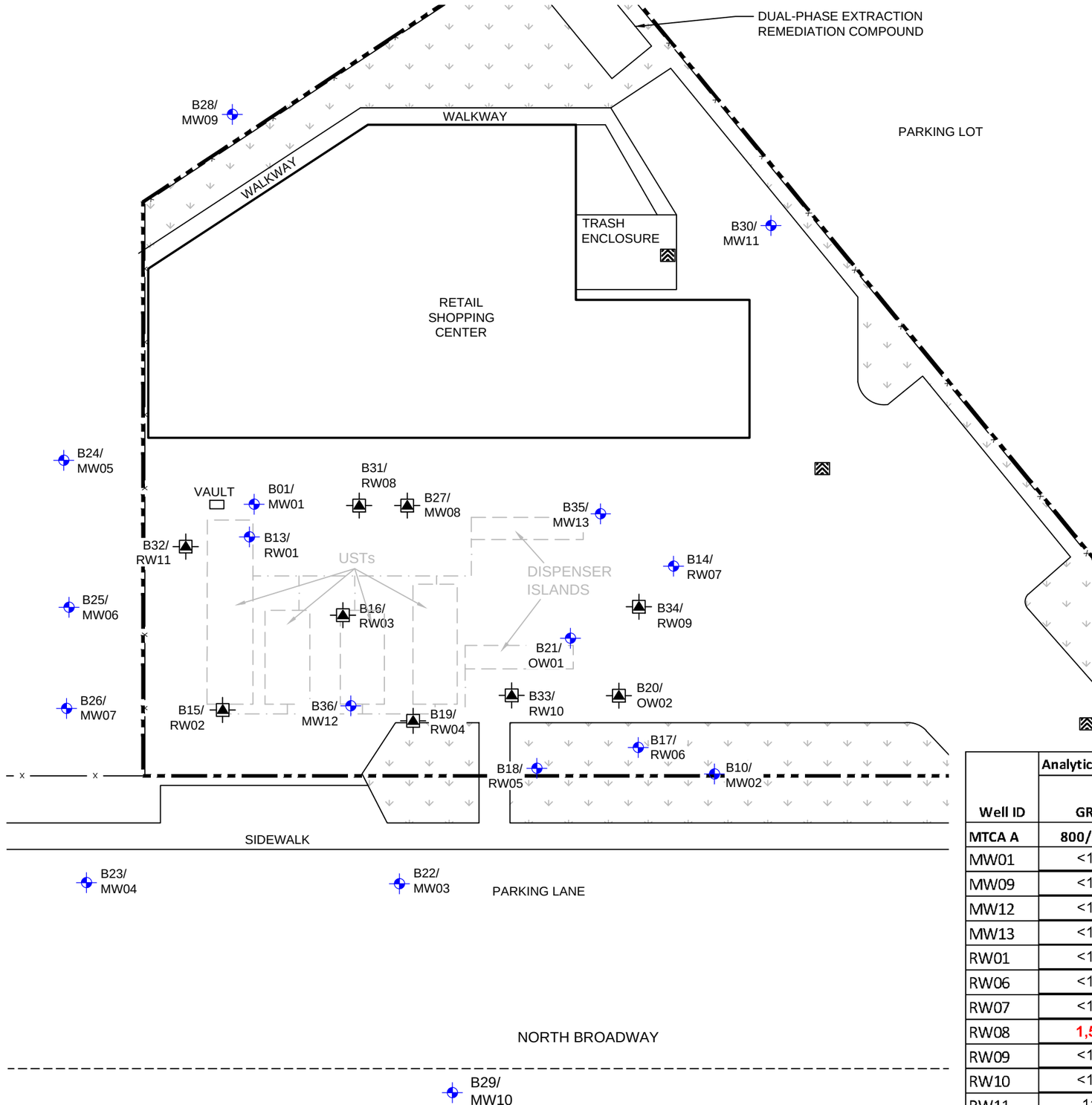

LEGEND

- B01/ MW01 — GROUNDWATER MONITORING WELL (SOUNDEARTH)
- RW01 — REMEDIATION WELL (SOUNDEARTH)
- CATCH BASIN
- POWER POLE
- PROPERTY BOUNDARY
- FENCE
- FORMER SITE FEATURE
- FORMER FUEL DELIVERY PIPING
- UST — UNDERGROUND STORAGE TANK

Well ID	Analytical Results (µg/L) GRPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
MTCA A	**800/1,000**	**5**	**1,000**	**700**	**1,000**	**160**
MW01	<100	<1	<1	<1	<3	--
MW09	<100	<1	<1	<1	<3	--
MW12	<100	<1	<1	<1	<3	--
MW13	<100	<1	<1	<1	<3	--
RW01	<100	<1	<1	<1	<3	--
RW06	<100	<1	<1	<1	<3	--
RW07	<100	<1	<1	<1	<3	--
RW08	1,500	1.6	2.5	1.1	250	5.4
RW09	<100	<1	<1	<1	<3	--
RW10	<100	<1	<1	<1	<3	--
RW11	110	<1	<1	<1	11	--

FIGURE 4
GROUNDWATER ANALYTICAL RESULTS
FOR MARCH 2014
TOC HOLDINGS CO. FACILITY NO. 01-169
851 N. BROADWAY
EVERETT, WA.

DATE: 4-17-14
DWN: JJT
CHK:
APPROVED:
PRJ. MGR: CH
PROJECT NO: 14-810

SCALE IN FEET
0 20 40
1" = 20'

N W E S

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Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW01 TOC (feet): 100.00	10/07/04	--	--	<500	<1,000	**3,140**	0.666	0.736	57.9	239	19.1	<20.0	<10.0	<10.0	1.09	--	--	--
	05/04/06	11.73	88.27	--	--	<50.0	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	07/20/06	19.29	80.71	--	--	<100	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	11/08/06	19.30	80.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	14.10	85.90	--	--	<100	<1	<1	<1	<3	--	--	--	--	5.90	<1	3.21	1.31
	06/08/07	11.16	88.84	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	1.26	1.15
	08/14/07	17.18	82.82	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/29/07	18.28	81.72	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/19/08	9.91	90.09	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/27/08	9.27	90.73	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/12/08	9.41	90.59	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/26/08	8.08	91.92	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/31/09	7.80	92.20	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/19/09	9.82	90.18	--	--	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	08/28/09	9.81	90.19	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/25/09	7.56	92.44	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	01/28/10	7.82	92.18	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	7.15	92.85	<50	<250	<100	<0.35	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	8.38	91.62	<50	<250	<100	<0.35	<1	<1	<3	<5	<1	<1	<1	--	--	--	--
	11/09/10	7.58	92.42	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	7.46	92.54	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/19/11	7.50	92.50	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/18/11	11.20	88.80	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/21/11	10.95	89.05	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/15/12	10.73	89.27	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/17/12	9.87	90.13	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/12	15.77	84.23	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/06/13	11.28	88.72	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/04/13	17.28	82.72	--	--	<100	<1	<1	<1	3.6	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	18.59	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	13.93	86.07	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
															Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW02 TOC (feet): 98.30	05/04/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/28/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MW02 TOC (feet): 98.30 (Continued)

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW03 TOC (feet): 98.94	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	24.7	74.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW04 TOC (feet): 100.46	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/12	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	24.77	75.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
															Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW05 TOC (feet): 100.40	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW05 TOC (feet): 100.41	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	25.07	75.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW06 TOC (feet): 100.96	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW06 TOC (feet): 101.94	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW07 TOC (feet): 100.19	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW07 TOC (feet): 101.17	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	24.87	76.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW08 TOC (feet): 99.97	12/21/10	24.34	75.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	23.49	76.48	1,600[x]	<250	27,000	1,700	14,000	2,300	14,000	430	--	--	--	--	20.6	--	--
	05/19/11	24.12	75.85	1,800[x]	<250[j]	30,000	1,600	11,000	1,800	10,800	270	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW08 TOC (feet): 99.11	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW08 TOC (feet): 99.33	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	23.22	76.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	23.89	75.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	23.25	76.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	23.43	75.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW09 TOC (feet): 99.71	12/21/10	11.34	88.37	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	9.85	89.86	130[x]	<250	<100	<0.35	<1	<1	<3	<1	--	--	--	--	<1	--	--
	05/19/11	10.15	89.56	90	<250	100	<0.35	<1	<1	<3	<1	--	--	--	--	<1	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/12	16.59	83.12	310[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
MW09 TOC (feet): 99.69	05/18/12	10.84	88.85	200	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/30/12	14.34	85.35	480[x]	<250	110	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/06/13	13.91	85.78	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/13	16.24	83.45	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/06/14	13.76	85.93	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW10	12/21/10	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC (feet): 99.18	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW11	12/21/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC (feet): 99.62	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/14	24.79	74.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
MW12 TOC (feet): 99.88	08/19/11	10.86	89.02	56[x]	<250	**1,000**	**6.7**	<1	44	<3	13	--	--	--	--	<1	--	--
	11/22/11	10.65	89.23	<50	<250	190	1.3	<1	4.2	<3	<1	--	--	--	--	--	--	<1
	02/16/12	10.20	89.68	<50	<250	<100	<0.35	<1	<1	<3	<1	--	--	--	--	--	--	--
MW12 TOC (feet): 99.86	05/18/12	9.50	90.36	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/12	10.86	89.00	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	14.15	85.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	14.92	84.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/14	13.24	86.62	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
MW13 TOC (feet): 99.58	08/19/11	10.00	89.58	<50	<250	<100	**21**	<1	<1	<3	<1	--	--	--	--	<1	--	--
	11/21/11	12.53	87.05	<50	<250	350[x]	**160**	<1	<1	<3	<1	--	--	--	--	--	--	<1
	02/16/12	11.22	88.36	170[x]	<250	<100	2.3	<1	<1	<3	--	--	--	--	--	--	--	--
	05/17/12	10.28	89.30	170[x]	<250	<100	**6.1**	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	9.58	90.00	200[x]	<250	<100	3.4	<1	<1	<3	--	--	--	--	--	--	--	--
	11/30/12	10.97	88.61	330[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	10.12	89.46	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/04/13	10.65	88.93	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/28/13	11.17	88.41	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/21/13	12.10	87.48	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/04/14	12.8	86.78	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW01 TOC (feet): 99.45	05/03/06	10.12	89.33	--	--	<50.0	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	07/20/06	17.14	82.31	--	--	<100	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	10.39	89.06	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	<1	1.10[c]
	06/08/07	10.15	89.30	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	<1	1.04[c]
	08/14/07	10.71	88.74	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/29/07	10.97	88.48	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/19/08	9.32	90.13	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/27/08	8.71	90.74	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/12/08	9.15	90.30	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/26/08	7.62	91.83	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/31/09	7.25	92.20	72[x]	300	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/19/09	9.29	90.16	--	--	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	08/28/09	9.28	90.17	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/25/09	7.01	92.44	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	01/28/10	7.25	92.20	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	6.63	92.82	<50	<250	<100	<0.35	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	7.84	91.61	<50	<250	<100	<0.35	<1	<1	<3	<5	<1	<1	<1	--	--	--	--
	11/09/10	7.04	92.41	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	6.95	92.50	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/19/11	7.95	91.50	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/18/11	10.50	88.95	<50	<250	<100	<1	7.3	<1	<3	--	--	--	--	--	--	--	--
	11/21/11	10.18	89.27	<50	<250	<100	<1	<1	<1	<3	--	--	---	--	--	--	--	--
	02/15/12	9.73	89.72	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
RW01 TOC (feet): 99.47	05/18/12	9.08	90.39	54[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	15.86	83.61	200[x]	**840**	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/29/12	10.29	89.18	60[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	13.02	86.45	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	11.39	88.08	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/14	10.9	88.57	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW02 TOC (feet): 99.63	05/03/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	15.45	84.18	**510**[x]	<250	560	3	15	4	81	--	--	--	--	--	--	--	--
	06/19/09	15.95	83.68	--	--	110	2.0	<1	1.0	15.1	<1	<1	<1	<1	--	--	--	--
	08/27/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/09	15.40	84.23	**1,100**[x]	<250	**8,800**	**67**	280	82	**2,190**	100	<1	<1	<1	--	3.61	--	--
	01/28/10	15.20	84.43	**1,000**[x]	<250	**9,000**	**120**	140	130	**2,040**	150	<1	<1	<1	--	--	--	--
	06/09/10	11.94	87.69	67[x]	<250	**840**	2.5	26	24	214	4.6	<1	<1	<1	--	--	--	--
	08/18/10	16.36	83.27	**4,200**[x]	<250	**14,000**	**97**	490	460	**3,980**	<500	<1	<1	<1	--	--	--	--
	11/09/10	14.48	85.15	**1,200**[x]	<250	**22,000**	**140**	420	**820**	**5,400**	**360**	--	--	--	--	--	--	--
	02/16/11	11.75	87.88	<50	<250	290	1.9	2.8	11	57	--	--	--	--	--	--	--	--
	05/18/11	12.82	86.81	**1,500**[x]	<250	**17,000**	**44**	160	**790**	**3,770**	**220**	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW02 TOC (feet): 99.67	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW02 TOC (feet): 99.88	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	12.55	87.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Pump in Well	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	No Measurement Recorded, correct sized probe not available on site.					--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)										Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW03 TOC (feet): 99.22	05/03/06	9.48	89.74	--	--	345	0.670	<0.500	4.71	41.7	--	<5.00	<0.500	<0.500	--	--	--	--
	07/21/06	11.63	87.59	--	--	<100	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	11/08/06	11.50	87.72	--	--	<100	<1	<1	<1	<3	--	<1	<1	<1	--	<1	--	--
	02/06/07	9.68	89.54	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	<1	<1
	06/08/07	9.44	89.78	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	<1	1.05[c]
	08/14/07	10.06	89.16	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/29/07	10.62	88.60	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/19/08	8.91	90.31	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/27/08	8.27	90.95	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/12/08	8.65	90.57	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/26/08	8.22	91.00	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/31/09	7.04	92.18	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/19/09	8.92	90.30	--	--	<100	<1	<1	<1	<3	<1	1.5	<1	<1	--	<1	--	--
	08/28/09	8.90	90.32	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/25/09	6.82	92.40	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	01/29/10	7.05	92.17	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	6.58	92.64	<50	<250	<100	<0.35	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	7.55	91.67	<50	<250	<100	<0.35	<1	<1	<3	<5	<1	<1	<1	--	--	--	--
	11/09/10	6.90	92.32	120[z]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	6.80	92.42	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/18/11	Inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	10.15	89.07	<50	<250	<100	<1	4.1	<1	<3	--	--	--	--	--	--	--	--
RW03 TOC (feet): 99.41	11/21/11	10.03	89.38	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/12	9.61	89.80	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
RW03 TOC (feet): 99.66	05/18/12	8.94	90.72	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	11.88	87.78	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/28/12	10.62	89.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	12.15	87.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Pump in Well	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	12.04	87.62	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
															Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW04 TOC (feet): 98.87	05/03/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/09	15.66	83.21	<50	<250	350	**27**	40	5.6	88	<1	1.6	<1	<1	--	<1	--	--
	01/28/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW04 TOC (feet): 99.06	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW04 TOC (feet): 99.27	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/12	15.05	84.22	**1,900**[x]	<300	**11,000**	**82**	350	10	**2,400**	--	--	--	--	--	--	--	--
	03/05/13	12.74	86.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	15.80	83.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	15.51	83.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	16.2	83.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW05 TOC (feet): 98.30	05/03/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW05 TOC (feet): 98.72	11/25/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/28/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW05 TOC (feet): 98.29	06/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/12	15.19	83.10	**650**[x]	<250	**1,200**	**260**	47	24	127	3.0	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
														Lead[6]		Arsenic[6]		
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW06 TOC (feet): 98.25	05/04/06	10.82	87.43	--	--	77.4	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	07/19/06	9.90	88.35	--	--	<100	<0.500	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	11/08/06	9.78	88.47	--	--	<100	<1	<1	<1	<3	--	<1	<1	<1	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	10.89	87.36	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/19/08	9.82	88.43	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/27/08	10.86	87.39	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/12/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/09	9.92	88.33	--	--	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	13.8	--	--
	08/28/09	9.80	88.45	120	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/25/09	9.73	88.52	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	01/28/10	9.72	88.53	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	9.61	88.64	<50	<250	<100	<0.35	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	9.99	88.26	81[z]	<250	<100	<0.35	<1	<1	<3	<5	<1	<1	<1	--	--	--	--
	11/09/10	9.70	88.55	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	9.70	88.55	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/18/11	9.68	88.57	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/19/11	9.99	88.26	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/22/11	9.89	88.36	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/12	9.73	88.52	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
RW06 TOC (feet): 98.24	05/18/12	9.73	88.51	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	9.93	88.31	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/30/12	9.70	88.54	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	9.69	88.55	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/04/13	9.73	88.51	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/28/13	9.97	88.27	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/21/13	9.69	88.55	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/04/14	9.64	88.60	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)										Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW07 TOC (feet): 98.41	05/03/06	10.06	88.35	--	--	66.7	1.380	<0.500	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	07/19/06	11.27	87.14	--	--	<100	4.10	3.63	<0.500	<3.00	--	<5.00	<0.500	<0.500	--	--	--	--
	11/08/06	10.70	87.71	--	--	<100	3.8	<1	<1	<3	--	<1	<1	<1	--	--	--	--
	02/06/07	9.13	89.28	--	--	<100	<1	<1	<1	<3	--	--	--	--	<1	<1	**13.2**	**18.2**[c]
	06/08/07	8.89	89.52	--	--	<100	3	<1	<1	<3	--	--	--	--	<1	<1	**43.3**	**60.2**[c]
	08/14/07	10.94	87.47	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/29/07	9.30	89.11	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/19/08	11.92	86.49	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/27/08	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/08	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/26/08	9.81	88.60	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/09	10.22	88.19	--	--	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	08/28/09	8.87	89.54	**2,100**[x]	**1,900**	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/25/09	9.10	89.31	150[x]	**840**	<100	<1	2.8	<1	<3	<1	5.9	<1	<1	--	<1	--	--
	01/29/10	9.29	89.12	<50	<250	<100	<1	<1	<1	<3	<1	4.7	<1	<1	--	--	--	--
	06/09/10	9.48	88.93	62[x]	470	<100	<0.35	<1	<1	<3	<1	4.5	<1	<1	--	--	--	--
	08/18/10	10.25	88.16	470[x]	<250	<100	<0.35	<1	<1	<3	<5	7.2	<1	<1	--	--	--	--
	11/09/10	9.73	88.68	**660**[x]	360[x]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	8.48	89.93	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/18/11	8.40	90.01	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/18/11	9.86	88.55	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/22/11	11.46	86.95	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/15/12	10.11	88.30	**620**[x]	270[x]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
RW07 TOC (feet): 98.40	05/17/12	11.38	87.02	410	350[x]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	10.33	88.07	**570**[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/28/12	9.85	88.55	**730**[x]	310[x]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	8.63	89.77	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	06/04/13	9.48	88.92	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/28/13	10.93	87.47	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/22/13	11.27	87.13	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/04/14	9.68	88.72	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW08 TOC (feet): 99.32	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW08 TOC (feet): 99.49	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	23.10	76.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/14	26.33	73.16	--	--	**1500**	1.6	2.5	1.1	250	5.4	--	--	--	--	--	--	--
RW09 TOC (feet): 98.12	08/19/11	11.58	86.54	<50	<250	170	**19**	<1	<1	<3	<1	--	--	--	--	<1	--	--
	11/22/11	10.66	87.46	<50	<250	<100	**10**	<1	<1	<3	<1	--	--	--	--	<1	--	--
	02/16/12	10.19	87.93	**770**[x]	330[x]	<100	**10**	<1	<1	<3	--	--	--	--	--	--	--	--
RW09 TOC (feet): 98.09	05/17/12	11.45	86.64	**520**	320[x]	<100	**9.2**	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	10.82	87.27	250[x]	<250	<100	4.1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/30/12	10.32	87.77	380[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	10.21	87.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	10.39	87.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	11.06	87.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/13	9.89	88.20	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/04/14	9.98	88.11	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--

Table 1
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Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
RW10 TOC (feet): 98.76	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/11	20.06	78.70	<50	<250	<100	<0.35	<1	<1	<3	<1	--	--	--	--	<1	--	--
	02/16/12	15.85	82.91	<50	<250	<100	<1	<1	<1	3.8	--	--	--	--	--	--	--	--
RW10 TOC (feet): 99.02	05/18/12	8.94	90.08	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/30/12	19.31	79.71	200[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	20.54	78.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	23.87	75.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Pump in Well		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/14	17.48	81.54	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
RW11 TOC (feet): 99.81	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	20.33	79.48	**1,200[x]**	<250	**3,400**	150	200	27	480	16	--	--	--	--	--	--	--
RW11 TOC (feet): 99.28	05/17/12	19.94	79.34	**1,200[x]**	<250	**14,000**	**560**	**1,400**	**360**	**2,770**	97	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/12	18.25	81.03	**520[x]**	<250	460	**52**	13	8.1	48	<1	--	--	--	--	--	--	--
	03/05/13	19.62	79.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	23.44	75.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/13	21.88	77.40	--	--	750	1.1	13	<1	150	--	--	--	--	--	--	--	--
	03/05/14	22.34	76.94	--	--	110	<1	<1	<1	11	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)											Lead[6]		Arsenic[6]	
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
OW01 TOC (feet): 98.95	05/03/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/08/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	7.99	90.96	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/12/08	9.94	89.01	--	--	180	30	2	2	<3	--	--	--	--	--	--	--	--
	11/26/08	6.88	92.07	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/31/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW01 TOC (feet): 98.95 (Continued)	06/19/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/09	6.48	92.47	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	<1	--	--
	01/29/10	6.75	92.20	<50	<250	<100	<1	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	6.27	92.68	<50	<250	<100	<0.35	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	7.24	91.71	<50	<250	<100	<0.35	<1	<1	<3	<5	<1	<1	<1	--	--	--	--
	11/09/10	6.65	92.30	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	6.50	92.45	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/19/11	6.47	92.48	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/18/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW01 TOC (feet): 99.96	05/17/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/12	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/03	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/14	10.89	89.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	
OW02 TOC (feet): 98.94	05/04/06	10.42	88.52	--	--	**2,260**	**236**	7.63	70.1	313	--	**26.1**	<0.500	<0.500	--	--	--	--
	07/19/06	9.87	89.07	--	--	**914**	**194**	0.990	45.3	8.72	--	**30.1**	<0.500	<0.500	--	--	--	--
	11/08/06	10.39	88.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/07	10.54	88.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/08/07	10.02	88.92	--	--	220	**22**	1	3	4	--	--	--	--	--	--	--	--
	08/14/07	10.02	88.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/07	10.55	88.39	--	--	300	**41**	3	5	13	--	--	--	--	--	--	--	--
	02/19/08	10.56	88.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/08	9.96	88.98	--	--	190	**38**	2	2	6	--	--	--	--	--	--	--	--
	08/12/08	10.24	88.70	--	--	180	**30**	2	2	<3	--	--	--	--	--	--	--	--
	11/26/08	10.10	88.84	--	--	260	**54**	3	6	8	--	--	--	--	--	--	--	--
OW02 TOC (feet): 99.05[9]	03/31/09	8.82	90.23	**1,400**	260[y]	380	**49**	2	10	38	--	--	--	--	--	--	--	--
	06/19/09	9.25	89.80	--	--	<100	**18**	<1	2.5	3	<1	3.8	<1	<1	--	<1	--	--
	08/28/09	9.31	89.74	**510**	320	<100	**23**	<1	2	<3	--	--	--	--	--	--	--	--
	11/25/09	9.33	89.72	<50	<250	<100	**7.6**	<1	<1	<3	<1	<1	<1	<1	--	1.17	--	--
	01/29/10	9.59	89.46	<50	<250	<100	3.5	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	06/09/10	8.95	90.10	100[z]	**640**	<100	1.5	<1	<1	<3	<1	<1	<1	<1	--	--	--	--
	08/18/10	9.60	89.45	130[z]	<250	<100	2.0	<1	<1	<3	<5	1.2	<1	<1	--	--	--	--
	11/09/10	9.91	89.14	**660**[z]	**760**[z]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	02/16/11	7.93	91.12	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	05/19/11	9.31	89.74	<50	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/18/11	10.23	88.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW02 TOC (feet): 98.04	11/21/11	7.00	91.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/12	8.55	89.49	60[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
OW02 TOC (feet): 97.83	05/18/12	8.53	89.30	100[x]	250[x]	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	08/14/12	8.49	89.34	160[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	11/30/12	8.62	89.21	96[x]	<250	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/13	8.60	89.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/04/13	8.77	89.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/13	9.69	88.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/13	8.25	89.58	--	--	<100	<1	<1	<1	<3	--	--	--	--	--	--	--	--
	03/05/14	No Measurement Recorded, correct sized probe not available on site.					--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Groundwater Data
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Well ID	Sample Date	Depth to Groundwater[1] (feet)	Groundwater Elevation[2] (feet)	Analytical Results (µg/L)														
				DRPH[4]	ORPH[4]	GRPH[3]	Benzene[5]	Toluene[5]	Ethylbenzene[5]	Total Xylenes[5]	Naphthalene[5]	MTBE[5]	EDB[5]	EDC[5]	Lead[6]		Arsenic[6]	
															Total	Dissolved	Total	Dissolved
MTCA Method A Cleanup Level for Groundwater[7]				500	500	800/1,000[8]	5	1,000	700	1,000	160	20	0.01	5	15		5	

NOTES:

Red denotes concentrations exceeding the MTCA Method A cleanup level.

Samples analyzed by TestAmerica Laboratories, Inc. of Bothell, Washington, or Friedman & Bruya, Inc. of Seattle, Washington.

TOCs were surveyed relative to an arbitrary benchmark with an assumed elevation of 100.00 feet.

[1]Measured in feet below the top of the well casing.

[2]Calculated by subtracting the depth to groundwater from the TOC.

[3]Analyzed by Method NWTPH-Gx.

[4]Analyzed by Method NWTPH-Dx.

[5]Analyzed by EPA Method 8021B, 8260B, or 8260C.

[6]Analyzed by EPA Method 200.8.

Regulation, Method A

[8]800 µg/L when benzene is present and 1,000 µg/L when benzene is not present.

[9]The TOC for OW02 was modified and resurveyed on March 16, 2009.

Laboratory Notes:

[c]The dissolved arsenic was greater than the total arsenic for the sample. The samples were reanalyzed by the laboratory with the same result.

[j]The result is below normal reporting limits. The value reported is an estimate.

[x,z]The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

[y]The pattern of peaks present is not indicative of motor oil.

-- = not analyzed/not measured

< = not detected at a concentration exceeding laboratory reporting limits

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

Dry = measurable groundwater not encountered in well

EDB = ethylene dibromide (1,2-dibromoethane)

EDC = ethylene dichloride (1,2-dichloroethane)

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTBE = methyl tertiary-butyl ether

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

TOC = top of well casing elevation

Table 2
Summary of System Performance
TOC Holdings Co. Facility No. 01-169
851 North Broadway
Everett, Washington

Reporting Period		Duration of Reporting Period (days)	System Run Time (days)	System Run Time (%)	Volume of Groundwater Discharged	Average Groundwater Recovered Flow Rate	GRPH Aqueous-Phase Removal (lb)	GRPH Vapor-Phase Removal (lb)
Start Date	**End Date**							
06/07/12	06/19/12	12	12	99%	3,950	329.2	0.015	103.0
06/19/12	09/12/12	85	41	48%	4,764	56.0	0.014	354.9
09/12/12	11/09/12	58	38	66%	2,306	39.8	0.006	513.0
11/09/12	07/10/13	119	29	24%	5,473	46.0	0.004	139.4
07/10/13	10/10/13	87	87	100%	8,932	102.7	0.007	178.0
10/10/13	01/00/00	106	65	61%	2,989	28.2	0.003	177.3
09/17/13	12/06/13	80	73	91%	3,727	46.6	0.003	314.9
12/06/14	03/14/14	98	95	98%	9,576.6	103.4	0.003	274.7
Average	**--**	**--**	**--**	**73%**	**--**	**94%**	**--**	**--**
Totals		**645**	**440**	--	**41,718**	--	**0.055**	**2,055.2**

NOTES:

gallons/day = gallons per day

GRPH = gasoline-range petroleum hydrocarbons

lb = pound(s)

ATTACHMENT A

GROUNDWATER SAMPLE COLLECTION FORMS

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: MW01

Project Name: TOC Everett - Broadway 01-169
AEC Project #: 14-810
Date 05 March 2014

Sample I.D. MW01-20140305 Time: 1524
Field Duplicate I.D. _____ Time: _____
Personnel: Larry Namba

WELL INFORMATION

Monument condition: ☐ Good ☑ Needs repair Stripped ears ☑ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 19.24 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 13.10 ft Intake Depth (BTOC) 16 Begin Purging Well: 1504
Casing volume 6.14 ft (H_2O) X 0.16 gal/ft = 0.98 gal. X 3 = 2.94 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1506	13.42		14.38	0.420	7.96	7.39	38	644
1509	13.50		14.40	0.416	7.75	7.31	40	567
1512	13.60	0.072	14.44	0.418	7.74	7.30	48	462
1515	13.63		14.55	0.420	7.62	7.30	53	438
1518	13.71		14.57	0.424	7.56	7.28	59	438
1521	13.82		14.59	0.422	7.58	7.32	65	445

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: Drk Brown sediments

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	(No) 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: MW09

Project Name: TOC Everett-Broadway 01-169
Sample I.D. MW09-20140306 Time: 1430
AEC Project #: 14-810
Field Duplicate I.D. _____ Time: _____
Date 06 March 2014
Personnel: Larry Namba

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 23.10 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 13.65 ft Intake Depth (BTOC) 19 Begin Purging Well: 1410
Casing volume 9.45 ft (H_2O) X 0.16 gal/ft = 1.51 gal. X 3 = 4.53 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1412	13.65		11.26	0.843	1.42	6.41	-156	8.3
1415	13.65	0.108	11.08	0.851	0.45	6.41	-159	4.3
1418	13.66		10.46	0.830	0.36	6.41	-165	3.7
1421	13.69		10.49	0.847	0.24	6.41	-168	3.7
1424	13.69		10.49	0.854	0.27	6.42	-172	3.9
1427	13.76		10.44	0.859	0.25	6.42	-174	3.9

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	(No) 0.45 0.10	C, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: MW12

Project Name: TOC Everett 01-169 Sample I.D. MW12-20140306
AEC Project #: 14-810 Field Duplicate I.D. _____
Date 06 March 2014 Personnel: Larry Namba

WELL INFORMATION

Monument condition ☑ Good ☐ Needs repair _____
Well cap condition ☑ Good ☐ Replaced ☐ Needs replacement
Headspace reading ☑ Not measured _____ ppm ☐ Odor _____
Well diameter ☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 15.12 ft ☐ Hard bottom ☐ Soft bottom ☐ Not measured
Depth to product ND ft
Depth to water 11.53 ft
Casing volume 3.59 ft (H_2O) X 0.16 gal/ft = 0.57 gal. X 3 = 1.72 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Submersible ☐ Other _____
Bailer type ☐ Disposable ☐ Teflon ☐ Stainless ☐ PVC ☐ Other _____

FIELD PARAMETERS

Time	Water Level	Purge Rate (Ltr/min)	Temp. (°C)	Sp. Cond. (±3%) mS/cm	Dissolved Oxygen (±10% or ≤1.00 ±0.2	pH (±0.1)	ORP (mV)	Turbidity (± 10% or ≤10)
1214	11.78		12.08	0.889	6.78	7.59	-116	10.2
1217	11.81	0.076	12.06	0.882	6.47	7.59	-98	10.3
1220	11.99		12.25	0.892	6.24	7.59	-80	12.2
1223	12.20		12.21	0.894	6.21	7.59	-73	11.4
1226	12.49		12.25	0.895	6.37	7.57	-66	12.2
1229	12.84		12.24	0.893	6.43	7.57	-62	14.5

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

SAMPLE INFORMATION

Sample Collection Time 1232

Container Type	Number	Preservative	Field Filtered?	Analysis
@ 3 40 mL VOA	3	HCl	(No) 0.45 0.10	GC, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW08

Project Name: TOC Everett 01-169 Sample I.D. M RW08 - 20140306
AEC Project #: 14-810 Field Duplicate I.D. _____
Date 06 March 2014 Personnel: Larry Nambu

WELL INFORMATION

Monument condition ☑ Good ☐ Needs repair _____
Well cap condition ☑ Good ☐ Replaced ☐ Needs replacement
Headspace reading ☑ Not measured _____ ppm ☐ Odor _____
Well diameter ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 29.17 ft ☐ Hard bottom ☑ Soft bottom ☐ Not measured
Depth to product ND ft
Depth to water 26.95 ft
Casing volume 2.22 ft (H_2O) X ~~0.16~~ 0.65 @ gal/ft = ~~0.36~~ 1.44 gal. X 3 = ~~1.07~~ 4.33 @ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Submersible ☐ Other _____
Bailer type ☐ Disposable ☐ Teflon ☐ Stainless ☐ PVC ☐ Other _____

FIELD PARAMETERS

Time	Water Level	Purge Rate (Ltr/min)	Temp. (°C)	Sp. Cond. (±3%) mS/cm	Dissolved Oxygen (±10% or ≤1.00 ±0.2	pH (±0.1)	ORP (mV)	Turbidity (± 10% or ≤10)
1118	27.10		13.50	1.062	1.39	6.48	-254	44.2
1121	27.18	0.054	13.45	1.063	0.28	6.68	-284	99.1
1124	—		13.42	1.080	0.11	6.73	-303	150
1127	27.29		13.20	1.068	0.07	6.84	-310	463
1130	27.36		13.13	1.080	0.06	6.83	-301	552
1133	27.43		13.11	1.080	0.04	6.83	-299	521

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

Lt sheen, odor (sewage) clear w/ black sediment

SAMPLE INFORMATION

Sample Collection Time 1136

Container Type	Number	Preservative	Field Filtered?	Analysis
40 ml VOA	3 4	HCl	(No) 0.45 0.10	G, BTEX, Naphthalene
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW10

Project Name: TOE Everett 01-169 Sample I.D. RW10-20140306
AEC Project #: 14-810 Field Duplicate I.D.
Date 06 March 2014 Personnel: Larry Namba

WELL INFORMATION

Monument condition ☑ Good ☐ Needs repair
Well cap condition ☑ Good ☐ Replaced ☐ Needs replacement
Headspace reading ☑ Not measured ____ ppm ☐ Odor
Well diameter ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments Vaulted

PURGING INFORMATION

Total well depth 24.53 ft ☐ Hard bottom ☐ Soft bottom ☐ Not measured
Depth to product NM ft
Depth to water 11.34 ft
Casing volume 13.19 ft (H_2O) X 0.65 gal/ft = 8.57 gal. X 3 = 25.72 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Submersible ☐ Other
Bailer type ☐ Disposable ☐ Teflon ☐ Stainless ☐ PVC ☐ Other

FIELD PARAMETERS

Time	Water Level	Purge Rate (Ltr/min)	Temp. (°C)	Sp. Cond. (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2	pH (±0.1)	ORP (mV)	Turbidity (± 10% or ≤10)
1301	11.44		11.22	0.162	7.62	6.92	-34	10.3
1304	11.47	0.1048	10.86	0.161	7.21	6.84	-23	10.4
1307	11.50		10.87	0.162	7.14	6.80	-17	10.5
1310	11.53		10.90	0.162	6.94	6.79	-13	11.2
1313	11.56		11.00	0.162	7.03	6.79	-10	11.4
1316	11.59		10.97	0.161	7.61	6.78	-6	11.5

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

SAMPLE INFORMATION

Sample Collection Time 1319

Container Type	Number	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	(No) 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: MW13

Project Name: TOC Everett - Broadway 01-169 | Sample I.D. MW13-20140304 | Time: 1504
AEC Project #: 14-810 | Field Duplicate I.D. | Time:
Date 04 March 2014 | Personnel: Larry Namba

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☑ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor
Well diameter: ☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth 14.81 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s):
Depth to product NM ft
Depth to water 11.95 ft Intake Depth (BTOC) 14 Begin Purging Well: 1420
Casing volume 2.86 ft (H_2O) X 0.16 gal/ft = 0.46 gal. X 3 = 1.28 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☐ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1422	12.09		11.46	1.033	1.99	6.37	-98	1.7
1425	12.15	0.1060	11.44	1.038	1.22	6.32	-122	1.8
1428	12.20		11.40	1.046	1.31	6.32	-140	1.8
1431	12.25		11.47	1.046	1.44	6.33	-137	2.2
1434	12.29		11.51	1.039	1.51	6.37	-124	2.1
1437	12.34		11.58	1.007	1.94	6.43	-103	2.0
1440	12.39		11.69	0.958	2.28	6.51	-77	2.3
1443	12.44		11.74	0.923	2.88	6.57	-61	2.0
1446	12.51		11.73	0.889	3.48	6.63	-39	2.1
1449	12.55		11.83	0.856	3.90	6.61	-33	1.9
1452	12.61		11.92	0.832	4.53	6.62	-27	1.3
1455	12.66		11.96	0.827	4.62	6.61	-18	1.3

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: 1458 12.74 0.060 6.59 0.814 1.2 4.71 11.97 -14

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	No 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW01

Project Name: TOC Everett-Broadway 01-169
AEC Project #: 14-810
Date 05 March 2014

Sample I.D. RW01-20140305 Time: 1604
Field Duplicate I.D. _____ Time: _____
Personnel: Larry Hamba

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☑ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments Vaulted

PURGING INFORMATION

Total well depth 17.47 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 10.90 ft Intake Depth (BTOC) 13 Begin Purging Well: 1544
Casing volume 6.57 ft (H_2O) X 0.65 gal/ft = 4.27 gal. X 3 = 12.81 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1546	10.96		12.57	0.383	8.19	7.28	75	5.0
1549	11.00	0.064	12.49	0.381	7.57	7.25	75	3.8
1552	11.02		12.39	0.385	7.52	7.24	75	4.1
1555	11.03		12.53	0.384	7.63	7.23	75	4.3
1558	11.08		12.48	0.382	7.75	7.25	75	4.6
1601	11.11		12.48	0.385	7.78	7.25	76	4.4

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	(No) 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW06

Project Name: TOC Everett - Broadway 01-169
AEC Project #: 14-810
Date: 04 March 2014

Sample I.D. RW06-20140304 Time: 1537
Field Duplicate I.D. _____ Time: _____
Personnel: Larry Nambu

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☑ Water in Monument
Well cap condition: ☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments Vaulted

PURGING INFORMATION

Total well depth 12.22 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 9.66 ft Intake Depth (BTOC) 11.5 Begin Purging Well: 1516
Casing volume 2.56 ft (H_2O) X 0.65 gal/ft = 1.66 gal. X 3 = 4.98 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1519	9.66		10.59	0.748	3.03	6.80	37	0.6
1522	9.67	0.094	10.57	0.737	2.69	6.81	43	1.0
1525	9.67		10.64	0.748	2.53	6.78	50	0.8
1528	9.68		10.79	0.757	2.49	6.80	54	0.9
1531	9.68		10.93	0.756	2.52	6.79	57	1.2
1534	9.68		10.90	0.760	2.50	6.80	59	1.0

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	No 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW07

Project Name: TOC Everett-Broadway 01-169
AEC Project #: 14-810
Date: 04 March 2014

Sample I.D. RW07-20140304 Time: 1340
Field Duplicate I.D. MW99-20140304 Time: 1355
Personnel: Larry Namba

WELL INFORMATION

Monument condition: ☐ Good ☐ Needs repair ☑ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments: Vaulted

PURGING INFORMATION

Total well depth 12.93 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s):
Depth to product NM ft
Depth to water 9.27 ft Intake Depth (BTOC) 11.5 Begin Purging Well: 1317
Casing volume 3.66 ft (H_2O) X 0.65 gal/ft = 2.38 gal. X 3 = 7.14 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1322	9.36		11.20	1.185	0.39	6.59	-115	12.9
1325	9.40	0.094	11.21	1.147	0.31	6.48	-143	7.0
1328	9.45		11.21	1.155	0.27	6.48	-165	4.8
1331	9.50		11.19	1.135	0.25	6.50	-178	4.8
1334	9.54		11.11	1.148	0.27	6.46	-187	5.0
1337	9.60		11.03	1.143	0.25	6.49	-193	5.0

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	(No) 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW09

Project Name: TOC Everett - Broadway 01-169
Sample I.D. RW09-20140304 Time: 1614
AEC Project #: 14-810
Field Duplicate I.D. _____ Time: _____
Date 04 March 2014
Personnel: Larry Nambu

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 13.85 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 8.07 ft Intake Depth (BTOC) 11 Begin Purging Well: 1554
Casing volume 5.78 ft (H_2O) X 0.65 gal/ft = 3.76 gal. X 3 = 11.28 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1556	8.15		10.78	1.231	2.00	6.41	34	0.3
1559	8.20	0.096	10.78	1.230	1.17	6.33	33	0.4
1602	8.26		10.85	1.231	0.99	6.35	32	0.5
1605	8.31		10.85	1.239	0.91	6.34	31	0.9
1608	8.37		10.87	1.236	0.86	6.34	30	1.2
1611	8.42		10.86	1.240	0.82	6.35	30	1.5

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	No 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION

Well I.D. Number: RW11

Project Name: TCC Everett - Broadway 01-169
Sample I.D. RW11-20140305 Time: 1428
AEC Project #: 14-810
Field Duplicate I.D. _____ Time: _____
Date 05 March 2014
Personnel: Larry Nambu

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments Vaulted

PURGING INFORMATION

Total well depth 23.90 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 22.16 ft Intake Depth (BTOC) 23.5 Begin Purging Well: 1408
Casing volume 1.74 ft (H_2O) X 0.65 gal/ft = 1.13 gal. X 3 = 3.39 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1410	22.35		14.02	0.770	13.78	7.31	18	22.3
1413	22.38	0.060	13.91	0.630	5.62	7.10	-11	22.5
1416	22.41		13.96	0.618	5.39	7.12	-21	20.5
1419	22.44		13.92	0.615	5.78	7.11	-17	18.3
1422	22.49		13.89	0.617	5.61	7.10	-28	21.4
1425	22.51		13.90	0.610	5.75	7.11	-27	20.8

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 mL VOA	3	HCl	(No) 0.45 0.10	G, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

ATTACHMENT B

LAB REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
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March 13, 2014

Craig Hultgren, Project Manager
Anderson Environmental
705 Colorado Street
Kelso, WA 98626

Dear Mr. Hultgren:

Included are the results from the testing of material submitted on March 7, 2014 from the TOC_01-169, WORFDB8 F&BI 403093 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Allison Greiner
AEN0313R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 7, 2014 by Friedman & Bruya, Inc. from the Anderson Environmental TOC_01-169, WORFDB8 F&BI 403093 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Anderson Environmental
403093 -01	MW01-20140305
403093 -02	MW09-20140306
403093 -03	MW12-20140306
403093 -04	MW13-20140304
403093 -05	RW01-20140305
403093 -06	RW06-20140304
403093 -07	RW09-20140304
403093 -08	RW07-20140304
403093 -09	RW08-20140306
403093 -10	RW10-20140306
403093 -11	RW11-20140305
403093 -12	MW99-20140304
403093 -13	RW09-20140306

All quality control requirements were acceptable.

Date of Report: 03/13/14
Date Received: 03/07/14
Project: TOC_01-169, WORFDB8 F&BI 403093
Date Extracted: 03/10/14
Date Analyzed: 03/11/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
RW08-20140306 403093-09	1,500	120
Method Blank 04-0446 MB	<100	108

Date of Report: 03/13/14
Date Received: 03/07/14
Project: TOC_01-169, WORFDB8 F&BI 403093
Date Extracted: 03/10/14
Date Analyzed: 03/10/14 and 03/11/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW01-20140305 403093-01	<1	<1	<1	<3	<100	89
MW09-20140306 403093-02	<1	<1	<1	<3	<100	85
MW12-20140306 403093-03	<1	<1	<1	<3	<100	86
MW13-20140304 403093-04	<1	<1	<1	<3	<100	84
RW01-20140305 403093-05	<1	<1	<1	<3	<100	84
RW06-20140304 403093-06	<1	<1	<1	<3	<100	83
RW09-20140304 403093-07	<1	<1	<1	<3	<100	84
RW07-20140304 403093-08	<1	<1	<1	<3	<100	85
RW10-20140306 403093-10	<1	<1	<1	<3	<100	84
RW11-20140305 403093-11	<1	<1	<1	11	110	84

Date of Report: 03/13/14
Date Received: 03/07/14
Project: TOC_01-169, WORFDB8 F&BI 403093
Date Extracted: 03/10/14
Date Analyzed: 03/10/14 and 03/11/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW99-20140304 403093-12	<1	<1	<1	<3	<100	85
Method Blank 04-0446 MB	<1	<1	<1	<3	<100	88

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	RW08-20140306	Client:	Anderson Environmental
Date Received:	03/07/14	Project:	TOC_01-169, WORFDB8 F&BI 403093
Date Extracted:	03/07/14	Lab ID:	403093-09
Date Analyzed:	03/08/14	Data File:	030736.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	1.6
Toluene	2.5
Ethylbenzene	1.1
m,p-Xylene	150
o-Xylene	100
Naphthalene	5.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Anderson Environmental
Date Received:	NA	Project:	TOC_01-169, WORFDB8 F&BI 403093
Date Extracted:	03/07/14	Lab ID:	04-0418 mb
Date Analyzed:	03/07/14	Data File:	030712.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

Date of Report: 03/13/14
Date Received: 03/07/14
Project: TOC_01-169, WORFDB8 F&BI 403093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 403093-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	85	72-119
Toluene	ug/L (ppb)	50	90	71-113
Ethylbenzene	ug/L (ppb)	50	93	72-114
Xylenes	ug/L (ppb)	150	85	72-113
Gasoline	ug/L (ppb)	1,000	100	70-119

Date of Report: 03/13/14
Date Received: 03/07/14
Project: TOC_01-169, WORFDB8 F&BI 403093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 403062-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	50	<0.35	90	76-125
Toluene	ug/L (ppb)	50	<1	88	76-122
Ethylbenzene	ug/L (ppb)	50	<1	89	69-135
m,p-Xylene	ug/L (ppb)	100	<2	90	69-135
o-Xylene	ug/L (ppb)	50	<1	92	60-140
Naphthalene	ug/L (ppb)	50	<1	97	44-164

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	ug/L (ppb)	50	94	95	69-134	1
Toluene	ug/L (ppb)	50	95	94	72-122	1
Ethylbenzene	ug/L (ppb)	50	97	96	77-124	1
m,p-Xylene	ug/L (ppb)	100	98	98	83-125	0
o-Xylene	ug/L (ppb)	50	99	98	81-121	1
Naphthalene	ug/L (ppb)	50	105	103	64-133	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

403093

SAMPLE CHAIN OF CUSTODY ME 03-07-14 V83

Page # 1 of 2

Send Report To Craig Huttgren
Company Anderson Environmenta
Address 705 Colorado Street
City, State, ZIP Kelso, WA 98626
Phone # 360.577.9194 Fax # 360.577.9198

SAMPLERS (signature) L. Namba
PROJECT NAME/NO. TOC Everett 01-169 14-810
PO#
REMARKS

TURNAROUND TIME
☑ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☑ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	BTEX+Naphthalene by 8260B						Notes
MW01-20140305	01A-C	03/05/14	1524	Water	3		✓	✓										
MW09-20140306	02	03/06/14	1430	Water	3		✓	✓										
MW12-20140306	03	03/06/14	1232	Water	3		✓	✓										
MW13-20140304	04	03/04/14	1501	Water	3		✓	✓										
RW01-20140305	05	03/05/14	1604	Water	3		✓	✓										
RW06-20140304	06	03/04/14	1537	Water	3		✓	✓										
RW09-20140304	07	03/04/14	1614	Water	3		✓	✓										
RW07-20140304	08	03/04/14	1340	Water	3		✓	✓										
RW08-20140306	09A-D	03/06/14	1136	Water	4		✓					✓						
RW10-20140306	10A-C	03/06/14	1319	Water	3		✓	✓										

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Larry Namba	Larry Namba	AEC	03/07/14	1500
Received by:	DO	FEBZ	11	11
Relinquished by:				
Received by:		Samples received at 5°		

FORMS\COC\COC.DOC

403093

SAMPLE CHAIN OF CUSTODY

ME 03-07-14 VS?

Page # 2 of 2

Send Report To Craig Hultgren
Company Anderson Environmental
Address 705 Colorado Street
City, State, ZIP Kelso, WA ~~9810~~ 98626
Phone # 360.577.9194 Fax # 360.577.9198

SAMPLERS (*signature*) L. Namba

PROJECT NAME/NO. TOC Everett 01-169
14-810

PO#

REMARKS

TURNAROUND TIME
☑ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☑ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS							Notes
RW11-20140305	11A-C	03/05/14	1428	Water	3		✓	✓										PV
MW99-20140304	12 T	03/04/14	1355	Water	3		✓	✓										added in lab
RW-09-20140306 PV	13	3-06-14	15:38	4	3													not in WO added in lab

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Larry Namba	AEC	03/07/14	1500
Received by:	D O VO	F&BI	11	11
Relinquished by:				
Received by:		Samples received at	5	°C

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