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Geologic and Environmental Consulting Services

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August 28, 2018

Transmitted via email to: sawka.nancy@deq.state.or.us

Subject: **Focused Product Removal Status Report**
Former USA Mini-Mart #1/Santiam Stop and Shop
1306 Main Street, Sweet Home
DEQ LUST File #22-98-4187

Dear Nancy:

Martin S. Burck Associates, Inc. (MSBA) recently directed the focused vacuum product removal activities at the former USA Mini-Mart #1 / Santiam Stop and Shop located at 1306 Main Street in Sweet Home, Oregon (site). The focused removal activities were completed in general accordance with the *Proposed Corrective Action and Response to Comments*, dated July 20, 2018 and email clarification (July 24, 2018). The purpose of this work is to remove any residual free product in the vicinity of MW-5 and facilitate regulatory closure. This work was also performed in general accordance with the 1) *UST Cleanup Manual* (OAR 340-122-0205 through 340-122-0360); and 2) *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites (RBDM)* (updated June 2012 and November 2015). The site features are presented on Figure 1 (Attachment A).

Focused Vacuum Product Removal – August 2, 2018

On August 2, 2018, MSBA directed the initial focused vacuum product removal. The removal was performed by River City Environmental, Inc. (River City) using a truck mounted vacuum with a capacity of 2,500 gallons. During the removal event, groundwater containing petroleum hydrocarbons (PHCs) was extracted from a probe lowered near the bottom of monitoring well MW-5. In accordance with the Corrective Action Plan (CAP), the vacuum removal was intended to continue until the tank was filled or four hours duration, whichever came first. The test was terminated at 2.2 hours based on the vacuum truck operators assessment that the tank had reached capacity. However, the subsequent disposal invoice indicated that approximately 900 gallons had been removed. MSBA is currently evaluating the discrepancy. MSBA monitored the depth to water below the top of casing (TOC) in MW-5 throughout the removal event. The depth to water below TOC was lowered from the pre-extraction depth of 11.44 feet to approximately 13.21 feet for a total estimated drawdown of 1.77 feet. The drawdown depth to groundwater of 13.21 feet was approximately 0.83 foot lower than the documented August 12, 2015 depth to groundwater of 12.38 feet when historically low groundwater levels and an apparent corresponding increased product presence occurred in MW-5. In addition, the total drawdown was within approximately 0.06 foot of the historic all-time low of 13.27 feet measured on October 23, 2015. Therefore, MSBA concludes that the achieved drawdown of 13.21 feet was sufficient to promote the migration and capture/removal of any free product if present beneath the typical groundwater level.

During the removal event, MSBA performed groundwater level monitoring at nearby monitoring wells MW-2, MW-3, and MW-7 to evaluate drawdown and the inferred capture zone. Measurable drawdown was not observed in MW-2 and MW-3 and was observed in MW-7 (0.44 feet) indicating a potentially considerable radius of groundwater drawdown and capture. Following the extraction event, MSBA continued to monitor the depth to water in MW-7 and confirmed the groundwater surface was rebounding to the pre-extraction level.

During the removal event, the drop tube was submerged below the groundwater surface. Therefore, the removal was limited to liquid phase (groundwater). In addition, River City reported that the vacuum pump shares a common discharge stack with an internal combustion engine that creates the vacuum. Therefore, the exhaust from the discharge stack was not suitable for determining the volume of gasoline removed from the subsurface during this event. Also, based on these conditions/circumstances, discharge air samples were not analyzed as outlined in the DEQ approved corrective action plan referenced above.

Product Monitoring

On August 2, 2018, MSBA monitored well MW-5 for free product before and after the removal event using an oil-water interface probe and a product skimmer. Liquid product was not detected with the probe or observed on groundwater skimmed from the well. Following completion of the product monitoring, MSBA did not place/replace the hydrophobic, petroleum sorbent tube within

the well. The sorbent tube was not replaced to facilitate the observation and documentation of free product if present. Without the sorbent tube, product entering the well would be trapped by the surrounding capillary fringe and accumulate between monitoring events. Skimming the surface of the water inside the well would remove even the smallest accumulation of product for visual and physical confirmation of the presence/absence.

Groundwater Sampling and Analytical Results

On August 2, 2018, following extraction activities, a groundwater sample was collected from monitoring well MW-5 and submitted to Apex Labs (Apex) of Tigard, Oregon for laboratory analysis of gasoline-range hydrocarbons (gasoline) by Northwest Total Petroleum Hydrocarbon (NWTPH) method NWTPH-Gx. In addition, benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene were analyzed using Environmental Protection Agency (EPA) method 8260B. Gasoline, BTEX constituents, and naphthalene were detected in sample *MW-5* at lower concentrations compared to the previous sampling event conducted on July 18, 2018. The concentrations were well below the product solubility limits presented in Appendix D of the RBDM. The results of these analyses are summarized in Table 2 and 3 (Attachment B) and a copy of the laboratory report is included in Attachment C.

Weekly Product Monitoring – Truax

On August 8, 2018 weekly product monitoring activities were performed at MW-5 by Truax personnel. The depth to water below TOC was 11.37 feet bsg which is 0.07 feet higher compared to the previous event (8/2/18). Free product was not observed on water skimmed from the groundwater surface during this event.

Focused Vacuum Product Removal – August 16, 2018

On August 16, 2018, MSBA directed the second focused vacuum product removal event. To account for the high productivity of the aquifer at MW-5 and promote the simultaneous recovery of liquid and vapor phase fluids, the drop tube was placed at the approximate groundwater surface and steadily lowered to achieve the desired maximum drawdown. The total duration of the removal event was 4 hours. During the removal event, MSBA monitored the depth to water in MW-5. The depth to water below TOC in MW-5 was lowered from the pre-extraction depth of 11.46 feet to approximately 13.18 feet for a total estimated drawdown of 1.72 feet, comparable to the previous extraction event. The drawdown depth to groundwater of 13.81 feet was approximately 0.80 foot lower than the August 12, 2015 depth to groundwater of 12.38 feet when historically low groundwater levels and an apparent corresponding increased product presence were documented in MW-5. In addition, the total drawdown was within approximately 0.09 foot of the historic all-time

low of 13.27 feet measured on October 23, 2015. Therefore, MSBA concludes that the achieved drawdown of 13.18 feet was sufficient to promote the capture/removal of any free product if present beneath the typical groundwater levels. The groundwater level and product data are presented in Table 1 (Attachment A).

During the removal event, MSBA monitored the depth to water below TOCs in nearby monitoring wells MW-2, MW-3, MW-7, and MW-8 to evaluate potential drawdown related to the focused total fluids vacuum extraction event. Measurable drawdown was observed in monitoring wells MW-2 (0.03 feet), MW-3 (0.02 feet), MW-7 (0.57 feet), and MW-8 (0.03 feet). The approximate inferred extent of groundwater drawdown is illustrated on the attached Figure 1 (Attachment A). Following the removal event, MSBA monitored the depth to water in MW-2, MW-3, MW-7, MW-8 and confirmed the groundwater surface was rebounding to the pre-extraction levels. During the removal event, MSBA also monitored vacuum influence at MW-2, MW-3, MW-7, and MW-8 during the event. Vacuum influence was observed at monitoring wells MW-2 (0.005 inH₂O), MW-3 (0.005 inH₂O), MW-7 (< 0.005 inH₂O), and MW-8 (< 0.005 inH₂O). The inferred radius of vacuum influence is illustrated on Figure 1 (Attachment A).

Product Monitoring Activities

On August 16, 2018, MSBA monitored MW-5 for free product before and after the removal event using an oil-water interface probe and a product skimmer. Liquid product was not detected with the probe or observed on groundwater skimmed from the well. MSBA did not place a hydrophobic petroleum sorbent tube in well MW-5 following completion of the removal event to facilitate the documented presence/absence of product.

Groundwater Sampling and Analytical Results

On August 16, 2018, following extraction activities, a groundwater sample was collected from monitoring well MW-5 and submitted to Apex for laboratory analysis of gasoline by method NWTPH-Gx. In addition, BTEX and naphthalene were analyzed using EPA method 8260B. Gasoline, BTEX, and naphthalene were detected in sample *MW-5* at slightly higher concentrations compared to the previous sampling event (8/2/18). However, the analyte concentrations were well below the product solubility limits presented in Appendix D of the RBDM. The results of these analyses are summarized in Table 2 and 3 (Attachment B) and a copy of the laboratory report is included in Attachment C.

Weekly Product Monitoring – Truax

On August 24, 2018, weekly product monitoring activities were performed at MW-5 by Truax personnel. The depth to groundwater below TOC was 11.50 feet bsg, which is 0.04 foot lower than the previous static depth measured on August 16, 2018. Free product was not observed on water skimmed from the groundwater surface during this event.

Summary

On August 2 and 16, 2018, MSBA directed the focused vacuum product removal activities at MW-5. During these events, groundwater containing PHCs was extracted from MW-5. The groundwater level was lowered to approximately 0.8 foot below the August 12, 2015 depth to water of 12.38 feet when historically low groundwater levels and an apparent corresponding increased product presence were documented in MW-5. In addition, the drawdown depth during the removal events was within 0.006 and 0.009 foot of the maximum historic low groundwater level of 13.27 (9/23/15). Therefore, MSBA concludes that the drawdown was sufficient to promote capture/removal of free product, if present beneath the typical seasonal low groundwater levels. The groundwater level monitoring data from each event indicate a significant inferred radius of influence (Figure 1). MSBA monitored for free product on the groundwater surface before and after each removal event which was not detected or observed. Interim followup product monitoring performed by Truax personnel did not observe/detect free product in well MW-5. A groundwater sample was collected from MW-5 after each event and analyzed for gasoline, BTEX, and naphthalene. The analyte concentrations were comparable to the previous sampling events and were well below the product solubility limits. The absence of a sorbent tube in well MW-5 was continued to facilitate observations of the presence/absence of product.

Based on the current product monitoring and groundwater analytical data, it does not appear that residual free product is present beneath the typical seasonal low groundwater levels, however out of an abundance of caution, MSBA is scheduled to perform two additional focused vacuum product removal events.

Please contact me at (541) 387-4422 if you have any questions regarding this work or require additional information.

Sincerely,

Martin S. Burck Associates, Inc.



Martin S. Burck, RG/LG
Registered/Licensed Geologist: OR, WA, CA



Attachments: Attachment A Figure
 Attachment B Tables
 Attachment C Laboratory Analytical Reports

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Attachment A

Figure 1 Site Features and Inferred Extent of Drawdown-Influence

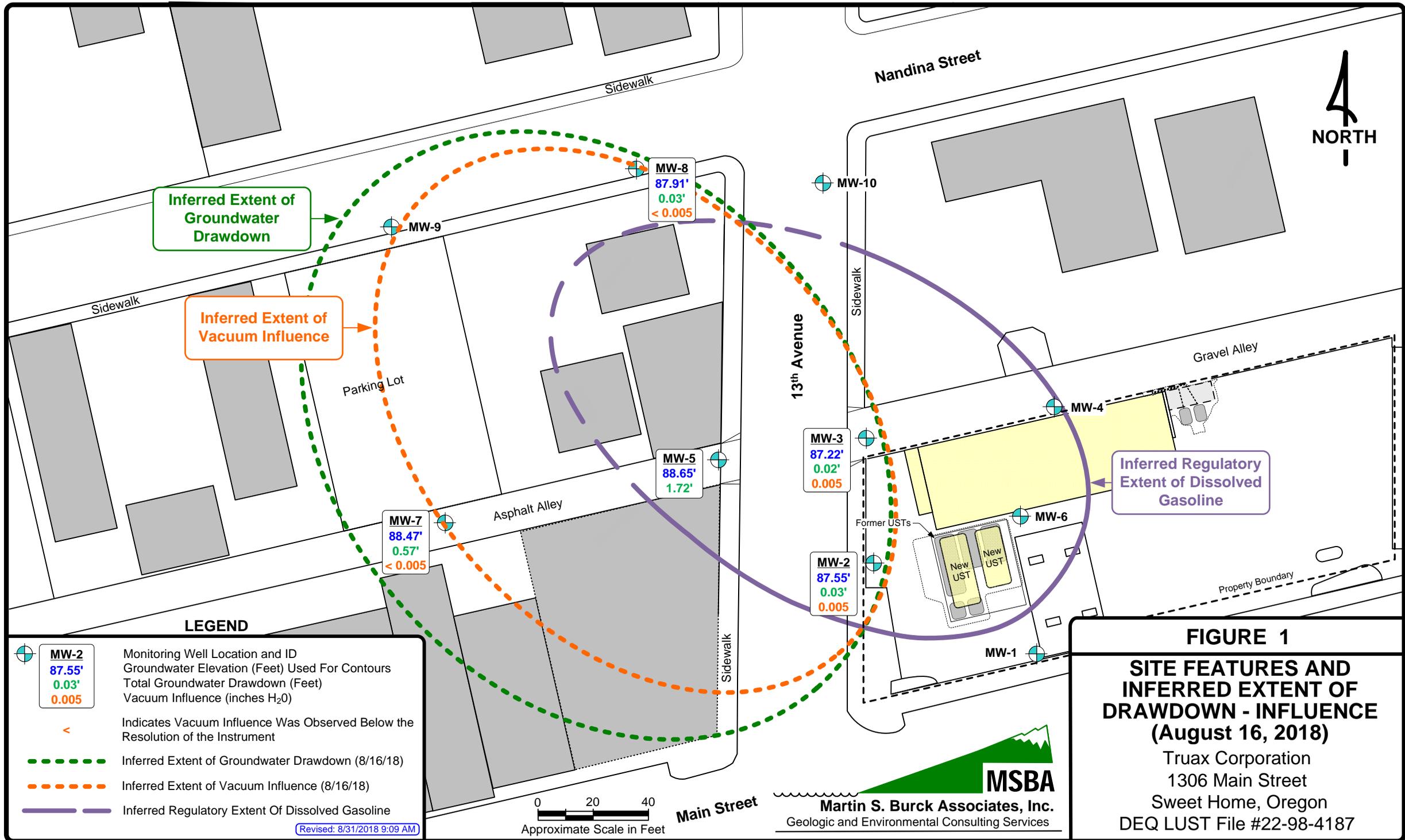


FIGURE 1
SITE FEATURES AND INFERRED EXTENT OF DRAWDOWN - INFLUENCE (August 16, 2018)
 Truax Corporation
 1306 Main Street
 Sweet Home, Oregon
 DEQ LUST File #22-98-4187

Attachment B

Table 1 Groundwater Level and Product Monitoring Data

Table 2 Groundwater Sample Analytical Data - PHCs

Table 3 Groundwater Sample Analytical Data - VOCs

TABLE 1
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA

Truax Sweet Home
1306 Main Street, Sweet Home, Oregon
DEQ File No. 22-98-4187

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-1	7/20/12	100.48	9.79	90.69	na ^e	np ^f	na
	9/5/12		10.45	90.03	- 0.66	np	na
	9/26/12		10.59	89.89	- 0.14	np	na
	10/18/12		9.76	90.72	+ 0.83	np	na
	12/19/12		8.20	92.28	+ 1.56	np	na
	4/10/13		9.06	91.42	- 0.86	np	na
	7/25/13		10.15	90.33	- 1.09	np	na
	9/18/13		9.99	90.49	+ 0.16	np	na
	12/5/13		8.96	91.52	+ 1.03	np	na
	4/15/14		8.96	91.52	0.0	np	na
	7/23/14		10.25	90.23	- 1.29	np	na
	10/9/14		10.83	89.65	- 0.58	np	na
	1/14/15		9.14	91.34	+ 1.69	np	na
	4/29/15		9.26	91.22	- 0.12	np	na
	7/14/15		10.56	89.92	- 1.30	np	na
	10/14/15		11.55	88.93	- 0.99	np	na
	12/16/15		8.55	91.93	+ 3.00	np	na
	4/6/16		9.24	91.24	- 0.69	np	na
	7/14/16		11.70	88.78	- 2.46	np	na
	10/12/16		9.61	90.87	+ 2.09	np	na
	1/5/17		8.94	91.54	+ 0.67	np	na
	4/20/17		8.63	91.85	+ 0.31	np	na
	7/25/17		10.33	90.15	- 1.70	np	na
10/9/17		10.56	89.92	- 0.23	np	na	
1/12/18		8.46	92.02	+ 2.1	np	na	
7/18/18		10.41	90.07	- 1.95	np	na	
8/2/18			nm ^l	na	na	na	na
8/16/18			nm	na	na	na	na
MW-2	7/20/12	100.00	11.53	88.47	na	np	na
	9/5/12		12.05	87.95	- 0.52	np	na
	9/26/12		12.20	87.80	- 0.15	np	na
	10/18/12		11.43	88.57	+ 0.77	np	na
	12/19/12		9.77	90.23	1.66	np	na
	4/10/13		10.69	89.31	- 0.92	np	na
	7/25/13		11.75	88.25	- 1.06	np	na
	9/18/13		11.64	88.36	+ 0.11	np	na
	12/5/13		10.71	89.29	+ 0.93	np	na

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-2 (cont)	4/15/14		10.88	89.12	- 0.17	np	na
	7/23/14		11.87	88.13	- 0.99	np	na
	10/9/14		12.40	87.60	- 0.53	np	na
	1/14/15		10.95	89.05	+ 1.45	np	na
	4/29/15	100.00	10.94	89.06	+ 0.01	np	na
	7/14/15		12.08	87.92	- 1.14	np	na
	10/14/15		13.15	86.85	- 1.07	np	na
	12/16/15		10.20	89.80	+ 2.95	np	na
	4/6/16		10.91	89.09	- 0.71	np	na
	7/14/16		11.37	88.63	- 0.46	np	na
	10/12/16		11.26	88.74	+ 0.11	np	na
	1/5/17		10.70	89.30	+ 0.56	np	na
	4/20/17	100.00 ^g	10.42	89.58	na	np	na
	7/25/17		11.88	88.12	- 1.46	np	na
	10/9/17		12.06	87.94	- 0.18	np	na
	1/12/18		10.30	89.70	+ 1.76	np	na
	7/18/18		11.95	88.05	- 1.65	np	na
	8/2/18		12.25	87.75	- 0.30	na	na
8/16/18		12.45	87.55	- 0.20	na	na	
MW-3	7/20/12	100.30	12.13	88.17	na	np	na
	9/5/12		12.95	87.35	- 0.82	np	na
	9/26/12		13.11	87.19	- 0.16	np	na
	10/18/12		12.38	87.92	+ 0.73	np	na
	12/19/12		10.55	89.75	1.83	np	na
	4/10/13		10.17	90.13	+ 0.38	np	na
	7/25/13		12.57	87.73	- 2.40	np	na
	9/18/13		12.45	87.85	+ 0.12	np	na
	12/5/13		10.04	90.26	+ 2.41	np	na
	4/15/14		10.68	89.62	- 0.64	np	na
	7/23/14		12.70	87.60	- 2.02	np	na
	10/9/14		13.30	87.00	- 0.60	np	na
	1/14/15		10.32	89.98	+ 2.98	np	na
	4/29/15		10.06	90.24	+ 0.26	np	na
	7/14/15		12.85	87.45	- 2.79	np	na
	10/14/15		13.90	86.40	- 1.05	np	na
	12/16/15		9.71	90.59	+ 4.19	np	na
	4/6/16		9.80	90.50	- 0.09	np	na
7/14/16		11.35	88.95	- 1.55	np	na	
10/12/16		9.89	90.41	+ 1.46	np	na	

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-3 (cont)	1/5/17		9.82	90.48	+ 0.07	np	na
	4/20/17	100.29 ^g	9.67	90.62	+ 0.15	np	na
	7/25/17		12.53	87.76	- 2.86	np	na
	10/9/17		12.80	87.49	- 0.27	np	na
	1/12/18		10.80	89.49	+ 2.00	np	na
	7/18/18		12.42	87.87	- 1.62	np	na
	8/2/18		13.84	86.16	- 1.71	na	na
	8/16/18		13.07	87.22	+ 1.06	na	na
MW-4	7/20/12	100.78	12.40	88.38	na	np	na
	9/5/12		12.92	87.86	- 0.52	np	na
	9/26/12	100.78	13.14	87.64	- 0.22	np	na
	10/18/12		12.22	88.56	+ 0.92	np	na
	12/19/12		10.55	90.23	1.67	np	na
	4/10/13		11.49	89.29	- 0.94	np	na
	7/25/13		12.59	88.19	- 1.10	np	na
	9/18/13		12.45	88.33	+ 0.14	np	na
	12/5/13		11.48	89.30	+ 0.97	np	na
	4/15/14		11.65	89.13	- 0.17	np	na
	7/23/14		12.71	88.07	- 1.06	np	na
	10/9/14		13.16	87.62	- 0.45	np	na
	1/14/15		11.67	89.11	+ 1.49	np	na
	4/29/15		11.67	89.11	0.00	np	na
	7/14/15		12.81	87.97	- 1.14	np	na
	10/14/15		14.10	86.68	- 1.29	np	na
	12/16/15		10.84	89.94	+ 3.26	np	na
	4/6/16		11.60	89.18	- 0.76	np	na
	7/14/16		12.05	88.73	- 0.45	np	na
	10/12/16		11.96	88.82	+ 0.09	np	na
	1/5/17		11.30	89.48	+ 0.66	np	na
	4/20/17		11.07	89.71	+ 0.23	np	na
	7/25/17		12.48	88.30	- 1.41	np	na
	10/9/17		12.71	88.07	- 0.23	np	na
1/12/18		9.51	91.27	+ 3.2	np	na	
7/18/18		12.58	88.20	- 3.07	np	na	
8/2/18			nm	na	na	na	na
8/16/18			nm	na	na	na	na

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-5	7/20/12	100.12	10.96	89.16	na	np	na
	9/5/12		11.35	88.77	-0.39	np	na
	9/26/12	100.14 ^h	11.30	88.84	na	np	na
	10/18/12		11.06	89.08	+ 0.24	np	na
	12/19/12		9.11	91.04 ⁱ	+ 1.95	0.12	na
	1/8/13		9.40	90.82 ⁱ	- 0.21	1.32	na
	2/14/13		10.52	89.62	- 1.20	np	14.5
	3/1/13		10.20	89.99 ⁱ	+ 0.37	0.75	10
	3/8/13		10.11	90.08 ⁱ	+ 0.09	0.75	7
	3/15/13		10.60	89.56 ⁱ	- 0.52	0.25	1
	3/22/13		9.94	90.21 ⁱ	+ 0.65	0.12	11.25
	3/29/13		9.10	91.06 ⁱ	+ 0.85	0.25	7.5
	4/5/13		10.96	89.20 ⁱ	- 1.86	0.25	2.25
	4/6/13		10.63	89.52 ⁱ	+ 0.32	< 0.12	1
	4/10/13		10.38	89.77 ⁱ	+ 0.25	0.12	8
	4/19/13	100.14	10.25	89.91 ⁱ	+ 0.14	0.25	9.5
	7/25/13		11.09	89.07 ⁱ	- 0.84	0.12	3
	8/23/13		11.03	89.12 ⁱ	+ 0.06	< 0.12	2
	8/29/13		11.55	88.59	- 0.53	np	0
	9/13/13		10.80	89.35 ⁱ	+ 0.76	< 0.12	16
	9/18/13		10.92	89.23 ⁱ	- 0.12	0.12	6
	10/7/13		10.20	89.95 ⁱ	+ 0.72	< 0.12	10
	10/18/13		10.71	89.44 ⁱ	- 0.51	< 0.12	2
	10/25/13		10.92	89.23 ⁱ	- 0.21	< 0.12	2
	11/8/13		9.11	91.04 ⁱ	+ 1.81	0.12	18
	12/5/13		10.24	89.90	- 1.14	np	0
	12/11/13		10.06	90.09 ⁱ	+ 0.19	< 0.12	2
	12/27/13		10.54	89.61 ⁱ	- 0.48	< 0.12	2
	1/3/14		10.50	89.65 ⁱ	+ 0.04	< 0.12	2.5
	1/10/14		10.00	90.15 ⁱ	+ 0.50	< 0.12	6
	1/17/14		10.62	89.53 ⁱ	- 0.62	< 0.12	2
	1/20/14		10.51	89.64 ⁱ	+ 0.11	< 0.12	15
	1/28/14		10.13	90.02 ⁱ	+ 0.38	< 0.12	2
3/17/14		10.25	89.90 ⁱ	- 0.12	< 0.12	2	
3/21/14		10.40	89.75 ⁱ	- 0.15	< 0.12	1	
3/28/14		10.12	90.03 ⁱ	+ 0.28	< 0.12	4	
4/3/14		10.24	89.91 ⁱ	- 0.12	< 0.12	10	
4/11/14		10.48	89.67 ⁱ	- 0.24	< 0.12	8	

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-5 (cont)	4/15/14		10.60	89.54	- 0.13	np	4
	4/25/14		9.89	90.26 ⁱ	+ 0.72	< 0.12	0
	5/9/14		10.33	89.82 ⁱ	- 0.44	< 0.12	2.5
	5/16/14		10.67	89.48 ⁱ	- 0.34	< 0.12	3.5
	5/23/14		10.55	89.60 ⁱ	+ 0.12	< 0.12	4
	5/30/14		10.55	89.60 ⁱ	0.00	< 0.12	2
	6/6/14		10.57	89.58 ⁱ	- 0.02	< 0.12	2
	6/13/14		10.59	89.56 ⁱ	- 0.02	< 0.12	1.5
	6/20/14		10.76	89.39 ⁱ	- 0.17	< 0.12	0
	6/30/14		10.81	89.34 ⁱ	- 0.05	< 0.12	2
	7/3/14		10.87	89.28 ⁱ	- 0.06	< 0.12	2
	7/11/14		11.01	89.14 ⁱ	- 0.14	< 0.12	2
	7/18/14		11.01	89.14 ⁱ	0.00	< 0.12	0
	7/23/14		11.14	89.01 ⁱ	- 0.13	< 0.12	1
	8/14/14	100.14	11.43	88.73 ⁱ	- 0.41	0.36	0
	9/5/14		11.75	88.40 ⁱ	- 0.33	< 0.12	11.75
	10/9/14		11.53	88.62 ⁱ	+ 0.22	< 0.12	0
	1/14/15		10.57	89.58 ⁱ	+ 0.97	< 0.12	22
	2/2/15		10.43	89.72 ⁱ	+ 0.14	< 0.12	9
	2/13/15		10.54	89.61 ⁱ	- 0.11	< 0.12	4
	2/20/15		10.62	89.53 ⁱ	- 0.08	< 0.12	9
	2/27/15		10.69	89.46 ⁱ	- 0.07	< 0.12	5
	3/6/15		10.75	89.40 ⁱ	- 0.06	< 0.12	5
	3/13/15		10.82	89.33 ⁱ	- 0.07	< 0.12	5
	3/20/15		10.80	89.36 ⁱ	+ 0.03	0.25	4
	3/26/15		10.31	89.86 ⁱ	+ 0.51	0.5	9
	4/3/15		10.39	89.76 ⁱ	- 0.10	< 0.12	6
	4/10/15		10.42	89.72	- 0.04	np	0
	4/17/15		10.56	89.59 ⁱ	- 0.13	< 0.12	4
	4/24/15		10.62	89.53 ⁱ	- 0.06	< 0.12	4
	4/29/15		10.54	89.60	+ 0.07	np	0
	5/1/15		10.66	89.49 ⁱ	- 0.11	< 0.12	0
	5/8/15		10.74	89.41 ⁱ	- 0.08	< 0.12	4
	5/15/15		10.82	89.33 ⁱ	- 0.08	< 0.12	4
5/22/15		10.89	89.26 ⁱ	- 0.07	< 0.12	5	
5/29/15		10.96	89.19 ⁱ	- 0.07	< 0.12	4	
6/5/15		11.03	89.12 ⁱ	- 0.07	< 0.12	4	
6/12/15		11.10	89.05 ⁱ	- 0.07	< 0.12	4	

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-5 (cont)	6/19/15		11.17	89.00 ⁱ	- 0.05	0.5	4
	7/2/15		11.31	88.89 ⁱ	- 0.11	1	6
	7/10/15		11.40	88.75 ⁱ	- 0.14	< 0.12	4.5
	7/14/15		11.38	88.77 ⁱ	+ 0.02	< 0.12	4
	7/17/15		11.60	88.55 ⁱ	- 0.22	< 0.12	4.5
	7/24/15		11.81	88.34 ⁱ	- 0.21	< 0.12	4.0
	7/28/15		11.94	88.20	- 0.14	np	6
	7/31/15		12.00	88.15 ⁱ	- 0.05	< 0.12	5
	8/12/15		12.38	88.01 ⁱ	- 0.14	4	6
	8/21/15		12.51	88.00 ⁱ	- 0.01	6	10.5
	8/28/15		12.68	87.83 ⁱ	- 0.17	6	9
	9/4/15		12.64	88.06 ⁱ	+ 0.23	9	16
	9/11/15		12.65	87.80 ⁱ	- 0.26	5	13.5
	9/18/15		12.09	88.06 ⁱ	+ 0.26	< 0.12	15.5
	9/25/15		12.79	87.78 ⁱ	- 0.28	7	14
	10/2/15	100.14	12.96	87.61 ⁱ	- 0.17	7	14
	10/9/15		13.02	87.61 ⁱ	0.00	8	13
	10/14/15		12.89	87.77 ⁱ	+ 0.16	8.5	14
	10/16/15		13.14	87.56 ⁱ	- 0.22	9	15
	10/23/15		13.27	87.30 ⁱ	- 0.26	7	12.5
	10/30/15		13.15	87.24 ⁱ	- 0.06	4	13
	11/6/15		12.93	87.22 ⁱ	- 0.02	< 0.12	14
	11/13/15		12.72	87.43 ⁱ	+ 0.21	< 0.12	14
	11/20/15		12.65	87.50 ⁱ	+ 0.07	< 0.12	13.5
	11/27/15		12.38	87.77 ⁱ	+ 0.27	< 0.12	12.5
	12/4/15		12.08	88.07 ⁱ	+ 0.30	< 0.12	14
	12/11/15		11.72	88.43 ⁱ	+ 0.36	< 0.12	12
	12/16/15		9.96	90.65 ⁱ	+ 2.22	7.6	20
	12/18/15		11.43	88.72 ⁱ	- 2.39	< 0.12	13
	12/23/15		11.22	88.93 ⁱ	+ 0.21	< 0.12	13.5
	1/8/16		10.69	89.46 ⁱ	+ 0.53	< 0.12	14
	1/15/16		10.32	89.83 ⁱ	+ 0.37	< 0.12	12
	1/22/16		10.08	90.07 ⁱ	+ 0.24	< 0.12	13
1/29/16		9.82	90.33 ⁱ	+ 0.26	< 0.12	12	
2/8/16		10.31	89.86 ⁱ	- 0.47	0.5	4	
2/15/16		9.32	90.83 ⁱ	+ 0.97	< 0.12	6	
4/6/16		10.59	89.55	- 1.28	np	na	

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-5 (cont)	7/14/16		10.77	89.38 ⁱ	- 0.17	< 0.12	36
	9/9/16		11.38	88.77 ⁱ	- 0.61	np	26 ^j
	9/16/16		11.49	88.67 ⁱ	- 0.10	0.25	11.5
	9/22/16		11.25	88.91 ⁱ	+ 0.24	0.25	8.5
	10/7/16		9.97	90.17	+ 1.26	np	0 ^k
	10/12/16		10.31	89.84 ⁱ	- 0.33	np	3 ^j
	10/21/16		9.00	91.14 ⁱ	+ 1.32	np	0 ^k
	10/27/16		9.68	90.46 ⁱ	- 0.68	np	0
	11/18/16		9.94	90.20	- 0.08	np	0 ^k
	12/23/16		9.95	90.19	- 0.20	np	0
	12/30/16		10.29	89.85	- 0.34	np	0
	1/5/17		10.36	89.78	- 0.07	np	3 ^j
	1/25/17		10.29	89.85	- 0.07	np	0 ^k
	2/17/17		9.12	91.02	- 1.17	np	0
	2/27/17		9.97	90.17	- 0.85	np	0
	3/6/17	100.11 ^g	9.84	90.27	+ 0.13	np	0
	3/16/17		9.89	90.22	- 0.05	np	0 ^k
	3/24/17	100.11	9.58	90.53	+ 0.31	np	1.0 ^j
	4/3/17		10.34	89.77	- 0.76	np	0 ^k
	4/20/17		9.93	90.18	+ 0.41	np	0
	4/28/17		9.82	90.29	+ 0.11	np	0 ^k
	5/26/17		10.54	89.57	- 0.72	np	0
	6/16/17		10.57	89.54	- 0.03	np	0 ^k
	6/23/17		10.77	89.34	- 0.20	np	0
	6/30/17		10.74	89.37	+ 0.03	np	0 ^k
	7/11/17		11.02	88.91	- 0.46	np	0 ^k
	7/14/17		11.04	89.07	0.16	np	0 ^k
	7/21/17		11.14	88.97	- 0.10	np	0 ^k
	7/25/17		11.20	88.91	- 0.06	np	0 ^k
	8/4/17		11.32	88.79	- 0.12	np	0 ^k
	8/14/17		11.46	88.65	- 0.14	np	0
	8/18/17		11.53	88.58	- 0.07	np	0
	9/1/17		11.71	88.40	- 0.18	np	0 ^k
9/8/17		11.84	88.27	- 0.13	np	0 ^k	
9/15/17		11.93	88.18	- 0.09	np	0 ^k	
10/9/17		11.24	88.90 ⁱ	+ 0.72	0.48	7	
10/13/17		10.06	90.05	+ 1.15	np	0 ^k	

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-5 (cont)	10/20/17		9.97	90.14	+ 0.09	np	0
	10/27/17		10.24	89.87	- 0.27	np	0 ^k
	11/6/17		9.96	90.15	+ 0.28	np	0 ^k
	11/10/17		9.89	90.22	+ 0.07	np	0 ^k
	11/17/17		8.89	91.22	+ 1.00	np	0 ^k
	12/1/17		9.96	90.15	- 1.07	np	0
	1/2/18		10.33	89.78	- 0.37	np	0 ^k
	1/5/18		10.46	89.65	- 0.13	np	0
	1/12/18		9.58	90.53	+ 1.34	np	0 ^k
	1/19/18		9.46	90.65	+ 0.12	np	0 ^k
	1/29/18		9.90	91.21	+ 0.56	np	0 ^k
	2/9/18		10.67	89.44	- 0.77	np	0 ^k
	2/16/18		10.63	89.48	+ 0.04	np	0 ^k
	2/23/18		10.29	89.82	+ 0.34	np	0 ^k
	3/2/18		10.00	90.11	+ 0.29	np	0 ^k
	3/16/18		10.30	89.81	- 0.30	np	0 ^k
	3/30/18		10.43	89.68	- 0.13	np	0 ^k
	4/27/18		10.69	89.42	- 0.26	np	0 ^k
	5/4/18		10.72	89.39	- 0.03	np	0 ^k
	5/11/18		10.81	89.30	- 0.09	np	0 ^k
	6/1/18	100.11	11.07	89.04	- 0.26	np	0 ^k
	6/11/18		10.46	89.65	+ 0.61	np	0 ^k
	7/10/18		11.13	88.98	- 0.67	np	0 ^k
	7/18/18		11.24	88.87	- 0.11	np	0
8/2/18		11.44	88.67	- 0.20	np	na	
8/10/18		11.37	88.74	+ 0.07	np	na	
8/16/18		11.46	88.65	- 0.09	np	na	
8/24/18		11.50	88.61	- 0.04	np	na	
MW-6	7/20/12	101.48	10.48	91.00	na	np	na
	9/5/12		12.72	88.76	- 2.24	np	na
	9/26/12		12.78	88.70	- 0.06	np	na
	10/18/12		10.83	90.65	+ 1.95	np	na
	12/19/12		9.38	92.10	+ 1.45	np	na
	4/10/13		9.61	91.87	- 0.23	np	na
	7/25/13		10.91	90.57	- 1.30	np	na
	9/18/13		10.39	91.09	+ 0.52	np	na
	12/5/13		9.61	91.87	+ 0.78	np	na

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)	
MW-6 (cont)	4/15/14		11.49	89.99	- 1.88	np	na	
	7/23/14		12.07	89.41	- 0.58	np	na	
	10/9/14		13.56	87.92	- 1.49	np	na	
	1/14/15		11.53	89.95	+ 2.03	np	na	
	4/29/15		11.19	90.29	+ 0.34	np	na	
	7/14/15		12.12	89.36	- 0.93	np	na	
	10/14/15		14.64	86.84	- 2.52	np	na	
	12/16/15		10.11	91.37	+ 4.53	np	na	
	4/6/16		11.95	89.53	- 1.84	np	na	
	7/14/16		12.30	89.18	- 0.35	np	na	
	10/12/16		11.07	90.41	+ 1.23	np	na	
	1/5/17		11.61	89.87	- 0.54	np	na	
	4/20/17	101.47 ^g	11.12	90.35	na	np	na	
	7/25/17		13.29	88.18	- 2.17	np	na	
	10/9/17		13.33	88.14	- 0.04	np	na	
	1/12/18		10.03	91.44	+ 3.30	np	na	
	7/18/18		12.07	89.40	- 2.04	np	na	
	8/2/18			nm	na	na	na	na
8/16/18			nm	na	na	na	na	
MW-7	9/26/12	98.61	9.84	88.77	na	np	na	
	10/18/12		9.01	89.60	+ 0.83	np	na	
	12/19/12		7.29	91.32	+ 1.72	np	na	
	4/10/13		8.59	90.02	- 1.30	np	na	
	7/25/13		9.80	88.81	- 1.21	np	na	
	9/18/13		9.50	89.11	+ 0.30	np	na	
	12/5/13		8.45	90.16	+ 1.05	np	na	
	4/15/14		8.96	89.65	- 0.51	np	na	
	7/23/14		9.70	88.91	- 0.74	np	na	
	10/9/14		10.18	88.43	- 0.48	np	na	
	1/14/15	98.61	8.95	89.66	+ 1.23	np	na	
	4/29/15		8.93	89.68	+ 0.02	np	na	
	7/14/15		10.05	88.56	- 1.12	np	na	
	10/14/15			nm	na	na	na	na
	12/16/15		7.72	90.89	na	np	na	
	4/6/16		8.99	89.62	- 1.27	np	na	
7/14/16		9.17	89.44	- 0.18	np	na		

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-7 (cont)	10/12/16		8.68	89.93	+ 0.49	np	na
	1/5/17		8.77	89.84	- 0.09	np	na
	4/20/17	98.60 ^g	8.29	90.31	na	np	na
	7/25/17		9.81	88.79	- 1.52	np	na
	10/9/17		9.86	88.74	- 0.05	np	na
	1/12/18		7.89	90.71	+ 1.97	np	na
	7/18/18		9.86	88.74	- 1.97	np	na
	8/2/18		10.08	88.52	- 0.22	na	na
	8/16/18		10.13	88.47	+ 0.05	na	na
MW-8	9/26/12	100.60	12.68	87.92	na	np	na
	10/18/12		12.30	88.30	+ 0.38	np	na
	12/19/12		11.27	89.33	+ 1.03	np	na
	4/10/13		11.87	88.73	- 0.60	np	na
	7/25/13		12.40	88.20	- 0.53	np	na
	9/18/13		12.36	88.24	+ 0.04	np	na
	12/5/13		11.93	88.67	+ 0.43	np	na
	4/15/14		12.06	88.54	- 0.13	np	na
	7/23/14		12.36	88.24	- 0.30	np	na
	10/9/14		12.71	87.89	- 0.35	np	na
	1/14/15		12.07	88.53	+ 0.64	np	na
	4/29/15		12.06	88.54	+ 0.01	np	na
	7/14/15		12.57	88.03	- 0.51	np	na
	10/14/15		nm	na	na	na	na
	12/16/15		11.46	89.14	na	np	na
	4/6/16		12.00	88.60	- 0.54	np	na
	7/14/16		12.22	88.38	- 0.22	np	na
	10/12/16		12.20	88.40	+0.02	np	na
	1/5/17		11.92	88.68	+ 0.28	np	na
	4/20/17	100.59 ^g	11.70	88.89	na	np	na
	7/25/17		12.41	88.18	- 0.71	np	na
10/9/17		12.51	88.08	- 0.10	np	na	
1/12/18		11.54	89.05	+ 0.97	np	na	
7/18/18		12.40	88.19	- 0.86	np	na	
8/2/18		nm	na	na	na	na	
8/16/18		12.71	87.88	na	na	na	
MW-9	9/26/12	99.88 ^h	nm	na	na	nm	na
	10/18/12		14.51	85.37	na	np	na
	12/19/12		13.81	86.07	+ 0.70	np	na

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-9 (cont)	4/10/13	99.88	13.67	86.21	- 0.14	np	na
	7/25/13		14.92	84.96	- 1.25	np	na
	9/18/13		14.94	84.94	- 0.02	np	na
	12/5/13		13.78	86.10	+ 1.16	np	na
	4/15/14		13.99	85.89	- 0.21	np	na
	7/23/14		15.00	84.88	- 1.01	np	na
	10/9/14		15.65	84.23	- 0.65	np	na
	1/14/15		14.20	85.68	+ 1.45	np	na
	4/29/15		14.01	85.87	+ 0.19	np	na
	7/14/15		15.26	84.62	- 1.25	np	na
	10/14/15		17.59	82.29	- 2.33	np	na
	12/16/15		12.82	87.06	+ 4.77	np	na
	4/6/16		13.93	85.95	- 1.11	np	na
	7/14/16		14.25	85.63	- 0.32	np	na
	10/12/16		13.99	85.89	+ 0.26	np	na
	1/5/17		13.60	86.28	+ 0.39	np	na
	4/20/17		13.07	86.81	+ 0.53	np	na
	7/25/17		15.12	84.76	- 2.05	np	na
	10/9/17		15.25	84.63	- 0.13	np	na
	1/12/18		13.25	86.63	+ 2.00	np	na
7/18/18		15.16	84.72	- 1.91	np	na	
8/2/18			nm	na	na	na	na
8/16/18			nm	na	na	na	na
MW-10	9/26/12	100.62	nm	na	na	nm	na
	10/18/12		13.35	87.27	na	np	na
	12/19/12		12.08	88.54	+ 1.27	np	na
	4/10/13		12.81	87.81	- 0.73	np	na
	7/25/13		13.47	87.15	- 0.66	np	na
	9/18/13		13.46	87.16	+ 0.01	np	na
	12/5/13		12.97	87.65	+ 0.49	np	na
	4/15/14		13.04	87.58	- 0.07	np	na
	7/23/14		13.41	87.21	- 0.37	np	na
	10/9/14		13.85	86.77	- 0.44	np	na
	1/14/15		13.19	87.43	+ 0.66	np	na
	4/29/15		13.11	87.51	+ 0.08	np	na
	7/14/15		13.81	86.81	- 0.70	np	na
	10/14/15		14.38	86.24	- 0.57	np	na

TABLE 1 (continued)

TABLE 1 (continued)
GROUNDWATER LEVEL AND PRODUCT MONITORING DATA
 Truax Sweet Home

Well ID	Date	Top of Casing Elevation ^a	Depth to Water ^b	Groundwater Elevation ^c	Variance ^d	Product Thickness (Inches)	Sorbent Tube Saturation (Inches)
MW-10 (cont)	12/16/15		12.85	87.77	+ 1.53	np	na
	4/6/16		13.07	87.55	- 0.22	np	na
	7/14/16		13.26	87.36	- 0.19	np	na
	10/12/16		13.37	87.25	- 0.11	np	na
	1/5/17		13.00	87.62	+ 0.37	np	na
	4/20/17	100.61 ^g	12.51	88.10	na	np	na
	7/25/17		13.74	86.87	- 1.23	np	na
	10/9/17		13.86	86.75	- 0.12	np	na
	1/12/18		12.43	88.18	+ 1.43	np	na
	7/18/18		13.76	86.85	- 1.33	np	na
	8/2/18		nm	na	na	na	na
	8/16/18		nm	na	na	na	na

- a** Reference elevation surveyed relative to a benchmark (MW-2 top of casing) with assumed elevation of 100.00 feet
b Depth to water measured in feet from the surveyed location at the top of each well casing to the groundwater surface
c Elevation of measured groundwater surface in monitoring wells relative to assumed benchmark elevation
d Variance represents the rise or fall of the groundwater elevation since the previous monitoring event; Positive indicates rise/increase, Negative indicates fall/decrease
e (na) Not Applicable
f (np) No product present in well
g Top of casing elevation resurveyed on 3/6/16
h Top of casing elevation resurveyed on 9/26/12
i Groundwater elevation adjusted to account for product thickness in well
 [adjusted groundwater elevation = (product thickness x 0.74) + measured groundwater elevation]
j Measured sorbent tube saturation may reflect exterior biological staining and not absorbed product.
k Yellow Staining observed on outside of sorbent tube; degree of saturation immeasurable
l (nm) Not measured

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs

Truax Sweet Home
1306 Main Street, Sweet Home, Oregon
DEQ File No. 22-98-4187

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
Decommissioning UST Cavity - CAESCO					
PW	1/30/07	nd ^d	- ^e	-	-
Monitoring Wells - MSBA					
MW-1	7/19/12	-	< 100 ^f	< 74.8	< 150
	9/24/12	-	< 100	309 ^{g h i}	< 374
	10/18/12	-	-	-	-
	12/18/12	-	< 100	< 74.8	< 150
	4/10/13	-	< 100	< 75.5	< 151
	7/25/13	-	-	-	-
	9/18/13	-	-	-	-
	12/5/13	-	-	-	-
	4/15/14	-	-	-	-
	7/23/14	-	-	-	-
	10/9/14	-	-	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
10/9/17	-	-	-	-	
1/23/18	-	-	-	-	
7/18/18	-	-	-	-	
8/2/18	-	-	-	-	
8/16/18	-	-	-	-	
MW-2	7/19/12	-	2,520	728 ^j	< 155
	9/25/12	-	3,120	674 ^j	< 374
	10/18/12	-	-	-	-
	12/19/12	-	764	496 ^k	221
	4/10/13	-	2,250	178 ^j	< 151
	7/25/13	-	-	-	-
	9/18/13	-	-	-	-
	12/5/13	-	2,730	214 ^j	< 162
	4/15/14	-	746	< 76.9	< 154
	7/23/14	-	944	< 78.4	< 157
	10/9/14	-	956	393 ^l	154 ^l
	7/14/15	-	2,570	-	-
	10/14/15	-	3,360	-	-
12/16/15	-	233	-	-	

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
MW-2 (cont)	4/6/16	-	853	-	-
	7/14/16	-	1,270	-	-
	10/12/16	-	879	-	-
	1/5/17	-	334	-	-
	4/20/17	-	250	-	-
	7/25/17	-	531	-	-
	10/9/17	-	447	-	-
	1/23/18	-	688	-	-
	7/18/18	-	812	-	-
	8/2/18	-	-	-	-
8/16/18	-	-	-	-	
MW-3	7/20/12	-	4,510	2,160 ⁱ	< 302
	9/25/12	-	1,640	1,450 ^m	< 374
	10/18/12	-	-	-	-
	12/19/12	-	928	1,010 ⁿ	< 299
	4/10/13	-	423	261 ^j	< 190
	7/25/13	-	147	428	< 152
	9/18/13	-	< 100	792	< 1,070
	12/5/13	-	358	374 ^{o,p}	< 158
	4/15/14	-	< 100	157 ⁱ	< 154
	7/23/14	-	< 100	569	< 762
	10/9/14	-	< 100	124 ⁱ	< 152
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
10/9/17	-	-	-	-	
1/23/18	-	-	-	-	
7/18/18	-	-	-	-	
8/2/18	-	-	-	-	
8/16/18	-	-	-	-	
MW-4	7/20/12	-	1,860	641 ^j	< 150
	9/25/12	-	207	197 ^m	< 374
	10/18/12	-	-	-	-
	12/19/12	-	413	307 ^k	< 150
	4/10/13	-	399	90.8 ^j	< 154
	7/25/13	-	-	-	-
	9/18/13	-	-	-	-
12/5/13	-	-	211	111 ^j	< 162

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
MW-4 (cont)	4/15/14	-	209	152 ^{i,o}	< 162
	7/23/14	-	119	123	< 155
	10/9/14	-	< 100	< 76.2	< 152
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
	10/9/17	-	-	-	-
	1/23/18	-	-	-	-
	7/18/18	-	-	-	-
	8/2/18	-	-	-	-
8/16/18	-	-	-	-	
MW-5	7/20/12	-	5,350	2,340 ⁱ	< 150
	9/25/12	-	8,090	1,830 ^j	< 374
	10/18/12	-	-	-	-
	12/19/12	-	5,220	627,000 ^o	< 15,100
	4/10/13	-	2,740	1,250 ^j	< 158
	7/26/13	-	3,560	802 ^p	< 151
	9/18/13	-	3,890	690 ^j	< 755
	12/5/13	-	3,880	659 ^j	< 155
	4/15/14	-	1,430	2,050 ^{i,o}	< 154
	7/23/14	-	3,120	328 ^j	< 154
	10/9/14	-	2,810	601 ⁱ	< 777
	1/14/15	-	5,400	-	-
	4/29/15	-	3,480	-	-
	7/14/15	-	6,180	-	-
	10/14/15	-	28,900	-	-
	12/16/15	-	13,600	-	-
	4/6/16	-	5,740	-	-
	7/14/16	-	3,020	-	-
	10/12/16	-	6,070	-	-
	1/5/17	-	4,760	-	-
4/20/17	-	1,720	-	-	
7/25/17	-	2,050	-	-	
10/9/17	-	2,040	-	-	
1/23/18	-	3,590	-	-	
7/18/18	-	3,190	-	-	
8/2/18	-	2,980	-	-	
8/16/18	-	4,040	-	-	
MW-6	7/19/12	-	2,790	1,440 ⁱ	< 157
	9/25/12	-	< 100	243 ⁱ	< 374
	10/18/12	-	-	-	-

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
MW-6 (cont)	12/19/12	-	< 100	< 74.8	< 150
	4/10/13	-	< 100	< 75.5	< 151
	7/25/13	-	-	-	-
	9/18/13	-	-	-	-
	12/5/13	-	< 100	< 77.7	< 155
	4/15/14	-	< 100	< 80.0	< 160
	7/23/14	-	< 100	< 76.9	< 154
	10/9/14	-	-	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
	10/9/17	-	-	-	-
	1/23/18	-	-	-	-
	7/18/18	-	-	-	-
8/2/18	-	-	-	-	
8/16/18	-	-	-	-	
MW-7	9/25/12	-	< 100	< 187	< 374
	10/18/12	-	-	-	-
	12/18/12	-	< 100	< 74.8	< 150
	4/10/13	-	< 100	< 75.5	< 151
	7/25/13	-	< 100	< 75.5	< 151
	9/18/13	-	-	-	-
	12/5/13	-	-	-	-
	4/15/14	-	-	-	-
	7/23/14	-	-	-	-
	10/9/14	-	< 100	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	< 100	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
	10/9/17	-	-	-	-
1/23/18	-	-	-	-	
7/18/18	-	-	-	-	
8/2/18	-	-	-	-	
8/16/18	-	-	-	-	

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
MW-8	9/26/12	-	157	269 ^m	< 374
	10/18/12	-	< 100	< 187	< 374
	12/18/12	-	< 100	< 75.5	< 151
	4/10/13	-	< 100	< 75.5	< 151
	7/25/13	-	< 100	< 76.2	< 152
	9/18/13	-	< 100	< 76.9	< 154
	12/5/13	-	-	-	-
	4/15/14	-	-	-	-
	7/23/14	-	-	-	-
	10/9/14	-	-	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
	10/9/17	-	-	-	-
1/23/18	-	-	-	-	
7/18/18	-	-	-	-	
8/2/18	-	-	-	-	
8/16/18	-	-	-	-	
MW-9	9/27/12	-	1,340	705 ^m	< 374
	10/18/12	-	607	439 ^j	< 374
	12/19/12	-	< 100	< 74.8	< 150
	4/10/13	-	< 100	< 75.5	< 151
	7/25/13	-	< 100	< 76.2	< 152
	9/18/13	-	< 100	< 76.9	< 154
	12/5/13	-	-	-	-
	4/15/14	-	-	-	-
	7/23/14	-	-	-	-
	10/9/14	-	< 100	< 192	< 385
	1/14/15	-	< 100	-	-
	4/29/15	-	< 100	-	-
	7/14/15	-	< 100	-	-
	10/14/15	-	< 100	-	-
	12/16/15	-	< 100	< 76.9	< 154
	4/6/16	-	< 100	< 76.9	< 154
	7/14/16	-	< 100	< 190	870 ^p / < 381 ^q
	10/12/16	-	< 100	< 192	< 385
	1/5/17	-	< 100	< 190	< 381
	4/20/17	-	< 100	< 75.5	< 151
7/25/17	-	< 100	< 78.4	< 157	

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
MW-9 (cont)	10/9/17	-	< 100	< 76.2	< 152
	1/23/18	-	< 100	< 76.9	< 154
	7/18/18	-	< 100	< 79.2	< 158
	8/2/18	-	-	-	-
	8/16/18	-	-	-	-
MW-10	9/27/12	-	107	267 ^P	< 374
	10/18/12	-	< 100	< 211	< 421
	12/19/12	-	< 100	< 74.8	< 150
	4/10/13	-	< 100	< 76.9	< 154
	7/25/13	-	< 100	< 76.2	< 152
	9/18/13	-	-	-	-
	12/5/13	-	-	-	-
	4/15/14	-	-	-	-
	7/23/14	-	-	-	-
	10/9/14	-	< 100	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	12/16/15	-	-	-	-
	4/6/16	-	-	-	-
	7/14/16	-	-	-	-
	10/12/16	-	-	-	-
	1/5/17	-	-	-	-
	4/20/17	-	-	-	-
	7/25/17	-	-	-	-
	10/9/17	-	-	-	-
	1/23/18	-	-	-	-
	7/18/18	-	-	-	-
	8/2/18	-	-	-	-
8/16/18	-	-	-	-	
Temporary Wells - MSBA					
TW-1	7/19/12	-	< 100	< 75.5	433
TW-2	7/19/12	-	< 100	< 75.5	< 151
Residential Well (Pre-filter) - MSBA					
1240 Nandina	7/19/12	-	-	-	-
	9/24/12	-	-	-	-
	10/18/12	-	-	-	-
	12/19/12	-	< 100	< 74.8	< 150
	4/10/13	-	-	-	-
	7/25/13	-	< 100	< 75.5	< 151
	9/18/13	-	< 100	< 77.7	< 155
	12/5/13	-	< 100	< 79.2	< 158
4/15/14	-	-	-	-	

TABLE 2 (continued)

TABLE 2 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - PHCs
 Truax Sweet Home

Sample ID	Sample Date	HCID ^a	Petroleum Hydrocarbons ^b (ppb) ^c		
			Gasoline	Diesel	Heavy Oil
1240 Nandina (cont)	7/23/14	-	-	-	-
	10/9/14	-	-	-	-
	7/14/15	-	-	-	-
	10/14/15	-	-	-	-
	4/20/17	-	< 0.100	< 75.5	< 151
Quality Assurance/Quality Control Sample					
Equipment Blank ^r	12/5/13	-	< 100	< 79.2	< 158
DEQ Groundwater Risk-Based Concentrations (RBCs) - Updated November 2015					
Ingestion	Residential	-	110	100	100
	Occupational Worker	-	450	430	430
Vapor Intrusion Into Buildings	Residential	-	22,000	> S st	> S
	Occupational Worker	-	> S	> S	> S
Volatilization to Outdoor Air	Residential	-	> S	> S	> S
	Occupational Worker	-	> S	> S	> S
Groundwater in Excavation	Construction Worker	-	14,000	> S	> S
	Excavation Worker	-			

- a Sample analyzed for presence of petroleum hydrocarbons using Northwest Total Petroleum Hydrocarbon (NWTPH) - Hydrocarbon Identification (HCID) method
- b Petroleum hydrocarbons analyzed using NWTPH methods NWTPH-Gx (gasoline) and NWTPH-Dx (diesel and heavy oil)
- c Analytical results reported in parts per billion (ppb)
- d (nd) Not Detected. Lab Qualifier specifies that the sample was run from the PAH prep. Surrogate was BFB and not HCID surrogate
- e (-) Not analyzed / not applicable (Oregon DEQ has not established an RBC value for the respective constituent)
- f (<) Analyte concentration not detected above the laboratory reporting limit, as listed
- g Bold value indicates analyte concentration detected above the laboratory reporting limit
- h Yellow shading indicates analyte concentration (or one-half the laboratory reporting limit) exceeds an RBC. The exceeded RBC is also shaded
- i Lab Qualifier: Hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component
- j Lab Qualifier (paraphrased): Diesel (C12-C24) is primarily due to (or is due to) carry over (or overlap) from gasoline (or gasoline-range product)
- k Lab Qualifier: Hydrocarbon pattern resembles a mixture of weathered gasoline and kerosene or a similar product
- l Lab Qualifier: Diesel is biased high due to carryover from gasoline (or estimated due to overlap from the gasoline range). For sample MW-2 on October 9, 2014, diesel and oil were estimated due to overlap from each other
- m Lab Qualifier: Hydrocarbon pattern resembles mix of weathered diesel and gasoline
- n Lab Qualifier: Hydrocarbon pattern resembles kerosene or similar product
- o Lab Qualifier: Sample appears to contain volatile range organics
- p Lab Qualifier: No fuel pattern detected. Diesel represents carbon range C10-C22 and oil represents C22-C40
- q Represents the analytical result following Acid/Silica Gel cleanup
- r An equipment blank was collected from a ceramic container used to collect water from the well house spigot. A separate container was used to minimize excess water discharge in the well house during freezing conditions
- s (>S) The groundwater RBC exceeds the solubility limit
- t The solubility limit for diesel is generally accepted to be approximately 6,000 ppb

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs

Truax Sweet Home
1306 Main Street, Sweet Home, Oregon
DEQ File No. 22-98-4187

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
Sample From UST Cavity - CAESCO													
<i>PW</i>	1/30/07	3,120 ^{c,d}	8,830	1,020	5,860	- ^e	-	-	-	-	-	-	-
Samples From Monitoring Wells - MSBA													
<i>MW-1</i>	7/19/12	< 0.250 ^f	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	9/24/12	-	-	-	-	-	-	-	-	-	-	-	-
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/18/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/25/13	-	-	-	-	-	-	-	-	-	-	-	-
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
10/9/17	-	-	-	-	-	-	-	-	-	-	-	-	
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
Samples From Monitoring Wells - MSBA (continued)													
MW-2	7/19/12	3.22	2.21	73.2	117	33.7	< 0.500	< 0.500	< 1.00	12.6	40.1	103	33.6
	9/25/12	48.4	5.60	56.6	94.3	31.4	< 0.500	< 0.500	< 1.00	10.7	30.7	110	43.4
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12	9.31	< 1.00	5.20	7.00	5.83	< 0.500	< 0.500	< 1.00	3.36	9.26	15.6	10.6
	4/10/13	68.0	6.98	29.4	44.1	18.5	< 0.500	< 0.500	< 1.00	8.44	23.3	42.2	8.67
	7/25/13	-	-	-	-	-	-	-	-	-	-	-	-
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	114	16.5	84.3	27.7	31.8	< 0.500	< 0.500	< 1.00	18.3	39.6	54.9	2.13
	4/15/14	34.8	3.76	6.20	2.35	3.55	< 0.500	< 0.500	< 1.00	1.58	2.14	8.41	< 1.00
	7/23/14	47.7	5.75	23.8	3.52	3.73	< 0.500	< 0.500	< 1.00	6.60	14.3	6.91	< 1.00
	10/9/14	32.4	4.07	23.9	3.83	2.53	< 0.500	< 0.500	< 1.00	8.06	15.8	3.59	< 1.00
	7/14/15	91.0	5.68	37.7	4.10	-	-	-	-	-	-	-	-
	10/14/15	66.4	4.52	88.5	7.89	5.64	< 0.500	< 0.500	< 1.00	20.9	59.1	< 1.00	< 1.00
	12/16/15	1.52	< 1.00	< 0.500	< 1.50	-	-	-	-	-	-	-	-
	4/6/16	30.7	2.68	2.84	2.53	2.60	-	-	-	-	-	-	-
	7/14/16	36.6	3.91	25.3	2.74	< 2.00	-	-	-	-	-	-	-
	10/12/16	19.4	2.00	9.47	2.86	< 2.00	-	-	-	-	-	-	-
	1/5/17	9.87	< 1.00	5.67	< 1.50	< 2.00	-	-	-	-	-	-	-
	4/20/17	10.0	< 1.00	3.68	< 1.50	< 2.00	-	-	-	-	-	-	-
	7/25/17	17.7	1.90	15.3	< 1.50	< 2.00	-	-	-	-	-	-	-
10/9/17	8.73	< 1.00	6.62	< 1.50	< 2.00	-	-	-	-	-	-	-	
1/23/18	13	2	7	2	< 2.00	-	-	-	-	-	-	-	
7/18/18	16.4	1.55	4.78	1.69	< 2.00	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-3	7/20/12	0.590	2.95	88.7	113	70.8	< 0.500	< 0.500	< 1.00	35.8	95.6	189	33.7
	9/25/12	0.270	< 1.00	9.49	5.84	10.8	< 0.500	< 0.500	< 1.00	12.5	45.4	44.3	1.26
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12 ^g	< 0.250	< 1.00	< 0.500	< 1.50	6.57	< 0.500	< 0.500	< 1.00	4.18	3.23	37.2	1.38
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	4.62	9.04	3.41	< 1.00
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	1.71	1.52	< 1.00	< 1.00
	9/18/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/5/13	< 0.250	< 1.00	< 0.500	< 1.50	2.58	< 0.500	< 0.500	< 1.00	1.32	1.00	19.9	< 1.00
	4/15/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/23/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/9/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
10/9/17	-	-	-	-	-	-	-	-	-	-	-	-	
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-4	7/20/12	1.59	< 1.00	117	32.3	73.4	< 0.500	< 0.500	< 1.00	15.0	43.4	93.8	8.71
	9/25/12	1.09	< 1.00	0.900	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	1.20	1.97	1.34	< 1.00
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12	3.60	< 1.00	1.78	1.57	2.52	< 0.500	< 0.500	< 1.00	12.1	17.5	3.26	< 1.00
	4/10/13	3.52	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	8.89	12.2	< 1.00	< 1.00
	7/25/13	-	-	-	-	-	-	-	-	-	-	-	-
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	1.06	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	2.94	2.51	< 1.00	< 1.00
	4/15/14	1.10	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	2.72	1.47	< 1.00	< 1.00
	7/23/14	0.460	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/9/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
10/9/17	-	-	-	-	-	-	-	-	-	-	-	-	
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-5	7/20/12	12.6	9.24	336	122	145	< 0.500	< 0.500	< 1.00	46.1	100	182	82.0
	9/25/12	18.4	12.5	368	212	229	< 1.00	< 1.00	< 2.00	46.7	121	367	125
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12 ^g	1.26	< 2.00	83.2	78.92	107	< 1.00	< 1.00	< 2.00	23.0	60.9	348	128
	4/10/13	10.2	< 5.00	86	37.8	43.4	< 2.50	< 2.50	< 5.00	15.9	33.1	139	51.1
	7/26/13	10.1	5.96	98.8	44.9	48.6	< 1.00	< 1.00	< 2.00	19.3	42.9	128	49.0
	9/18/13	11.1	< 10.0	218	96.3	106	< 5.00	< 5.00	< 10.0	21.4	53.9	243	62.8
	12/5/13	8.55	7.75	214	116	119	< 2.50	< 2.50	< 5.00	20.2	48.8	273	72.2
	4/15/14	3.47	2.04	43	24	24.4	< 0.500	< 0.500	< 1.00	10.4	10.4	63.9	24.3
	7/23/14	17.1	7.46	137	71.7	85.8	< 0.500	< 0.500	< 1.00	17.1	28.9	147	37.8
	10/9/14	8.55	5.16	150	79.1	87.3	< 0.500	< 0.500	< 1.00	12.2	39.2	155	36.9
	1/14/15	6.44	7.92	262	164	-	-	-	-	-	-	-	-
	4/29/15	10.3	5.16	132	65.4	-	-	-	-	-	-	-	-
	7/14/15	19.5	9.75	200	95.2	-	-	-	-	-	-	-	-
	10/14/15	45.1	37.0	975	640	481	< 5.00	< 5.00	< 10.0	89.0	288	1,420	238
	12/16/15	13.7	19.2	440	364	-	-	-	-	-	-	-	-
	4/6/16	4.91	6.32	111	135	74.3	-	-	-	-	-	-	-
	7/14/16	6.30	< 10.0	94.6	73.6	46.6	-	-	-	-	-	-	-
	10/12/16	12.0	14.8	324	200	154	-	-	-	-	-	-	-
	1/5/17	4.87	6.06	155	114	93.0	-	-	-	-	-	-	-
4/20/17	1.53	1.20	24.1	21.1	18.6	-	-	-	-	-	-	-	
7/25/17	9.21	4.12	48.3	26.6	29.1	-	-	-	-	-	-	-	
10/9/17	1.98	2.03	42.2	25.4	35.5	-	-	-	-	-	-	-	
1/23/18	4.26	< 5.00	107	47	71.7	-	-	-	-	-	-	-	
7/18/18	11.7	6.60	78.0	29.1	39.3	-	-	-	-	-	-	-	
8/2/18	9.11	5.04	51.4	19.8	34.2	-	-	-	-	-	-	-	
8/16/18	5.44	4.44	93.2	36.8	67.5	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-6	7/19/12	12.4	1.47	159	115	71.4	< 0.500	< 0.500	< 1.00	17.9	54.8	143	22.3
	9/25/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/25/13	-	-	-	-	-	-	-	-	-	-	-	-
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/15/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/23/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/9/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
10/9/17	-	-	-	-	-	-	-	-	-	-	-	-	
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b												
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB	
MW-7	9/25/12	0.320	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00	
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-	
	12/18/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00	
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00	
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00	
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00	
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/17	-	-	-	-	-	-	-	-	-	-	-	-	-
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-8	9/26/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/18/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/18/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	9/18/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/5/13	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/17	-	-	-	-	-	-	-	-	-	-	-	-
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-9	9/27/12	7.05	19.2	31.1	43.0	23.1	< 0.500	< 0.500	< 1.00	10.3	24.7	4.14	3.15
	10/18/12	2.55	5.40	2.80	15.7	3.54	< 0.500	< 0.500	< 1.00	< 1.00	1.23	1.80	1.68
	12/19/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	9/18/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/5/13	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	0.300	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	1/14/15 ^g	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/29/15 ^g	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/14/15 ^g	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/14/15	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/16/15 ^g	< 0.200	< 1.00	< 0.500	< 1.500	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/6/16	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/14/16	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/12/16	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00
	1/5/17	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/20/17	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00
7/25/17	< 2.00	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00	
10/9/17	< 2.00	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00	
1/23/18	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00	
7/18/18	< 0.220	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
MW-10	9/27/12	0.320	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	10/18/12	< 0.250	< 1.00	1.25	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	1.06	4.76	1.35
	12/19/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	9/18/13	-	-	-	-	-	-	-	-	-	-	-	-
	12/5/13	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	12/16/15	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/16	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/16	-	-	-	-	-	-	-	-	-	-	-	-
	10/12/16	-	-	-	-	-	-	-	-	-	-	-	-
	1/5/17	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/17	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/17	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/17	-	-	-	-	-	-	-	-	-	-	-	-
1/23/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
7/18/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/2/18	-	-	-	-	-	-	-	-	-	-	-	-	
8/16/18	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
TW-1	7/19/12 ^g	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
TW-2	7/19/12	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
Residential Well (Pre-filter) - MSBA													
1240 Nandina	7/19/12	-	-	-	-	-	-	-	-	-	-	-	-
	9/24/12	-	-	-	-	-	-	-	-	-	-	-	-
	10/18/12	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/12 ^g	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/10/13	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	9/18/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	12/5/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00
	4/15/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/23/14	-	-	-	-	-	-	-	-	-	-	-	-
	10/9/14	-	-	-	-	-	-	-	-	-	-	-	-
	7/14/15	-	-	-	-	-	-	-	-	-	-	-	-
	10/14/15	-	-	-	-	-	-	-	-	-	-	-	-
12/16/15	-	-	-	-	-	-	-	-	-	-	-	-	
4/20/17	< 0.200	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	-	< 1.00	< 1.00	
Quality Assurance/Quality Control Sample													
Equipment Blank^h	12/5/13	< 0.250	< 1.00	< 0.500	< 1.50	< 2.00	< 0.500	< 0.500	< 1.00	< 1.00	< 0.500	< 1.00	< 1.00

TABLE 3 (continued)

TABLE 3 (continued)
GROUNDWATER SAMPLE ANALYTICAL DATA - VOCs
 Truax Sweet Home

Sample ID	Sample Date	Volatile Organic Compounds ^a (ppb) ^b											
		Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	EDB	EDC	MTBE	IPB	NPB	124-TMB	135-TMB
DEQ Groundwater Risk-Based Concentrations (RBCs) - Updated November 2015													
Ingestion	Resident	0.46	1,100	1.5	190	0.17	0.0075	0.17	14	440	-	15	110
	Occupational	2.1	6,300	6.4	830	0.72	0.034	0.78	68	2,000	-	61	600
Vapor Intrusion Into Buildings	Resident	210	> S ⁱ	620	86,000	840	45	300	67,000	> S	-	5,800	> S
	Occupational	2,800	> S	8,200	> S	11,000	590	3,900	870,000	> S	-	> S	> S
Volatilization to Outdoor Air	Resident	3,100	> S	9,900	> S	3,600	180	2,100	350,000	> S	-	> S	> S
	Occupational Worker	14,000	> S	41,000	> S	16,000	960	9,500	1,100,000	> S	-	> S	> S
Groundwater in Excavation	Construction / Excavation Worker	1,800	220,000	4,500	23,000	500	27	630	63,000	51,000	-	1,700	15,000

- a Volatile organic compounds (VOCs) analyzed using EPA method 8260B. Abbreviations are as follows: EDB = 1,2-dibromoethane, EDC = 1,2-dichloroethane, MTBE = methyl tert-butyl ether, IPB = iso-propylbenzene, NPB = n-propylbenzene, 124-TMB = 1,2,4-trimethylbenzene, and 135-TMB = 1,3,5-trimethylbenzene
- b Analytical results reported in parts per billion (ppb)
- c Bold value indicates analyte concentration exceeds laboratory reporting limit
- d Yellow shading indicates analyte concentration (or one-half the laboratory reporting limit) exceeds an RBC. The exceeded RBC is also shaded
- e (-) Not analyzed / not applicable (Oregon DEQ has not established an RBC value for the respective constituent)
- f (<) Analyte concentration not detected above the laboratory reporting limit
- g Analyzed for the full list of VOCs; Detections were in MW-3 and MW-5 on December 19, 2012: n-Butylbenzene (MW-3 at 2.00 ppb and MW-5 at 20.6 ppb); sec-Butylbenzene (MW-3 at 2.07 ppb and MW-5 at 7.18 ppb); and 4-isopropylbenzene (MW-5 at 5.50 ppb)
- h An equipment blank was collected from a ceramic container used to collect water from the well house spigot to minimize excess water discharge during freezing conditions
- i (> S) The groundwater RBC exceeds the solubility limit

S:\Archive\Truax\Sweet Home - 1306 Main\2018 08 28) Status Update\T 3 GW VOCs.xlsJT 8

Attachment C

Laboratory Analytical Reports

Sample Date 08/02/2018 (Apex #A8H0132)

Sample Date 08/16/2018 (Apex #A8H0621)



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Thursday, August 9, 2018

Jonathan White
Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

RE: A8H0132 - Truax Sweet Home - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8H0132, which was received by the laboratory on 8/6/2018 at 11:15:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

<u>Martin S. Burck Associates, Inc</u> 200 N. Wasco Court Hood River, OR 97031	Project: <u>Truax Sweet Home</u> Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	A8H0132-01	Water	08/02/18 13:45	08/06/18 11:15

Apex Laboratories

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Darrell Auvil, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A8H0132-01)				Matrix: Water			Batch: 8080491	
Gasoline Range Organics	2.98	---	0.100	mg/L	1	08/06/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 108 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/06/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/06/18</i>	<i>NWTPH-Gx (MS)</i>	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Project Manager



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A8H0132-01)				Matrix: Water		Batch: 8080491		
Benzene	9.11	---	0.200	ug/L	1	08/06/18	EPA 8260C	
Toluene	5.04	---	1.00	ug/L	1	08/06/18	EPA 8260C	
Ethylbenzene	51.4	---	0.500	ug/L	1	08/06/18	EPA 8260C	Q-42
Xylenes, total	19.8	---	1.50	ug/L	1	08/06/18	EPA 8260C	
Naphthalene	34.2	---	2.00	ug/L	1	08/06/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>08/06/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/06/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/06/18</i>	<i>EPA 8260C</i>	



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080491 - EPA 5030B						Water						
Blank (8080491-BLK1)		Prepared: 08/06/18 11:35 Analyzed: 08/06/18 13:00										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (8080491-BS2)						Prepared: 08/06/18 11:35 Analyzed: 08/06/18 12:32						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.470	---	0.100	mg/L	1	0.500	---	94	80-120%	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>"</i>						



Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

Project: **Truax Sweet Home**
Project Number: [none]
Project Manager: **Jonathan White**

Report ID:
A8H0132 - 08 09 18 1042

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080491 - EPA 5030B						Water						
Blank (8080491-BLK1)			Prepared: 08/06/18 11:35			Analyzed: 08/06/18 13:00						
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (8080491-BS1)			Prepared: 08/06/18 11:35			Analyzed: 08/06/18 12:03						
EPA 8260C												
Benzene	19.9	---	0.200	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	18.8	---	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Ethylbenzene	19.9	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Xylenes, total	57.7	---	1.50	ug/L	1	60.0	---	96	80-120%	---	---	
Naphthalene	18.4	---	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8080491-MS1)			Prepared: 08/06/18 12:30			Analyzed: 08/06/18 17:45						
QC Source Sample: MW-5 (A8H0132-01)												
EPA 8260C												
Benzene	28.9	---	0.200	ug/L	1	20.0	9.11	99	79-120%	---	---	
Toluene	24.6	---	1.00	ug/L	1	20.0	5.04	98	80-121%	---	---	
Ethylbenzene	62.6	---	0.500	ug/L	1	20.0	51.4	56	79-121%	---	---	Q-01
Xylenes, total	80.8	---	1.50	ug/L	1	60.0	19.8	102	79-121%	---	---	
Naphthalene	46.9	---	2.00	ug/L	1	20.0	34.2	63	61-128%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080491							
A8H0132-01	Water	NWTPH-Gx (MS)	08/02/18 13:45	08/06/18 12:30	5mL/5mL	5mL/5mL	1.00

BTEX+N Compounds by EPA 8260C

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080491							
A8H0132-01	Water	EPA 8260C	08/02/18 13:45	08/06/18 12:30	5mL/5mL	5mL/5mL	1.00



Apex Laboratories, LLC

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Martin S. Burck Associates, Inc

200 N. Wasco Court
Hood River, OR 97031

Project: Truax Sweet Home

Project Number: [none]

Project Manager: Jonathan White

Report ID:

A8H0132 - 08 09 18 1042

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits.
(Refer to the QC Section of Analytical Report.)

Apex Laboratories

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Darrell Auvil, Project Manager



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis. The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
 - "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
 - "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
 - "" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.



Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

Project: **Truax Sweet Home**
Project Number: [none]
Project Manager: **Jonathan White**

Report ID:
A8H0132 - 08 09 18 1042

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.



Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

Project: **Truax Sweet Home**
Project Number: [none]
Project Manager: **Jonathan White**

Report ID:
A8H0132 - 08 09 18 1042

A8H0132
Lab # A8H0132 COC 1 of 1
Date 8/16/18

CHAIN OF CUSTODY

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: MSBA Project Mgr: Jon White Project Name: Truax-Sweet Home Project # _____
Address: 200 N Wasco Ct, Hood River, OR 97031 Phone: 541-287-4422 Fax: 541-287-4813 Email: john@msbaenvironmental.com
Sampled by: Jon White

Site Location: OR WA _____
Other: _____

SAMPLE ID _____

LAB ID # _____

DATE _____

TIME _____

MATRIX _____

OF CONTAINERS _____

NWTPH-DC _____

NWTPH-DCID _____

NWTPH-GX _____

8260 VOCs Full List _____

8260 RBDV VOCs _____

8260 HVOCs _____

8260 BTEX VOCs _____

8270 SVOC _____

8270 SIM PAHs _____

8082 PCBs _____

600 TTO _____

RCRA Metals (8) _____

TCLP Metals (8) _____

AL, SR, AS, BA, BE, CA, CR, CO, CU, FE, NI, PB, K, Hg, Mn, Mo, Ni, Zn, Se, Ag, Na, TL, V, Zn

TOTAL DISS TCLP _____

1200-COLS _____

1200-Z _____

X BTEX+N (826)

1 MW-5

1 2 3 4 5 6 7 8 9 10

Normal Turn-Around Time (TAT) = 10 Business Days

	YES	NO
1 Day		
2 Day		
3 Day		
4 DAY		
5 DAY		
Other:		

TAT Requested (circle) _____

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: Jon White Date: 8/16/18 Signature: [Signature]
Printed Name: Jon White Time: 09:30 Printed Name: Mike Time: 9:20
Company: MSBA Company: SDS

RELINQUISHED BY: [Signature] Date: 8/16/18 Signature: [Signature]
Printed Name: Mike Time: 11:15 Printed Name: Mike Time: 11:15
Company: SDS Company: SDS

SPECIAL INSTRUCTIONS:

Darrell Auvil

Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0132 - 08 09 18 1042
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APEX LABS COOLER RECEIPT FORM

H0132

Client: MSBA Element WO#: A8 H0132 ^{ASB} _{8/6/18}

Project/Project #: Truax - Sweet Home

Delivery info:
Date/Time Received: 8/6/18 @ 1115 By: ST
Delivered by: Apex ___ Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS Other ___

Cooler Inspection Inspected by: ASB : 8/6/18 @ 1120

Chain of Custody Included? Yes No ___ Custody Seals? Yes No ___

Signed/Dated by Client? Yes No ___

Signed/Dated by Apex? Yes No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>1.1</u>	<u>1.9</u>	<u>1.0</u>	<u>1.1</u>	___	___	___
Received on Ice? (Y/N)	<u>Y</u>	___	___	___	___	___	___
Temp. Blanks? (Y/N)	<u>Y</u>	___	___	___	___	___	___
Ice Type: (Gel/Real/Other)	<u>Y</u>	___	___	___	___	___	___
Condition:	___	___	___	___	___	___	___

Cooler out of temp? (Y/N) Possible reason why: _____

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA NA

Samples Inspection: Inspected by: ASB : 8/6/18 @ 1120

All Samples Intact? Yes No ___ Comments: _____

Bottle Labels/COCs agree? Yes No ___ Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes No ___ Comments: _____

Do VOA Vials have Visible Headspace? Yes ___ No NA ___

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes ___ No ___ NA ___

Comments: _____

Additional Information: _____

Labeled by: ASB Witness: [Signature] Cooler Inspected by: ASB See Project Contact Form: Y





Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Wednesday, August 29, 2018

Jonathan White
Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

RE: A8H0621 - Truax Sweet Home - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8H0621, which was received by the laboratory on 8/22/2018 at 11:11:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

A handwritten signature in black ink, appearing to read "Darrell Auvil".

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

<u>Martin S. Burck Associates, Inc</u> 200 N. Wasco Court Hood River, OR 97031	Project: <u>Truax Sweet Home</u> Project Number: [none] Project Manager: <u>Jonathan White</u>	Report ID: A8H0621 - 08 29 18 1155
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	A8H0621-01	Water	08/16/18 12:40	08/22/18 11:11

Apex Laboratories

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Darrell Auvil, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A8H0621-01)				Matrix: Water		Batch: 8081003		
Gasoline Range Organics	4.04	---	0.100	mg/L	1	08/22/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/22/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/22/18</i>	<i>NWTPH-Gx (MS)</i>	

Apex Laboratories

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Darrell Auvil, Project Manager



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
--	--	--

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A8H0621-01)				Matrix: Water		Batch: 8081003		
Benzene	5.44	---	0.200	ug/L	1	08/22/18	EPA 8260C	
Toluene	4.44	---	1.00	ug/L	1	08/22/18	EPA 8260C	
Ethylbenzene	93.2	---	0.500	ug/L	1	08/22/18	EPA 8260C	
Xylenes, total	36.8	---	1.50	ug/L	1	08/22/18	EPA 8260C	
Naphthalene	67.5	---	2.00	ug/L	1	08/22/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/22/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/22/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/22/18</i>	<i>EPA 8260C</i>



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8081003 - EPA 5030B						Water						
Blank (8081003-BLK1)		Prepared: 08/22/18 12:09 Analyzed: 08/22/18 14:23										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (8081003-BS2)		Prepared: 08/22/18 12:09 Analyzed: 08/22/18 13:03										
NWTPH-Gx (MS)												
Gasoline Range Organics	0.537	---	0.100	mg/L	1	0.500	---	107	80-120%	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (8081003-DUP1)		Prepared: 08/22/18 13:45 Analyzed: 08/22/18 15:17										
QC Source Sample: MW-5 (A8H0621-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	4.64	---	0.100	mg/L	1	---	4.04	---	---	14	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						



Martin S. Burck Associates, Inc	Project: Truax Sweet Home	
200 N. Wasco Court	Project Number: [none]	Report ID:
Hood River, OR 97031	Project Manager: Jonathan White	A8H0621 - 08 29 18 1155

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8081003 - EPA 5030B						Water						
Blank (8081003-BLK1)			Prepared: 08/22/18 12:09		Analyzed: 08/22/18 14:23							
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (8081003-BS3)			Prepared: 08/22/18 12:09		Analyzed: 08/22/18 13:29							
<u>EPA 8260C</u>												
Benzene	20.4	---	0.200	ug/L	1	20.0	---	102	80-120%	---	---	---
Toluene	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	---
Ethylbenzene	20.3	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	---
Xylenes, total	66.3	---	1.50	ug/L	1	60.0	---	110	80-120%	---	---	---
Naphthalene	21.2	---	2.00	ug/L	1	20.0	---	106	80-120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
Duplicate (8081003-DUP1)			Prepared: 08/22/18 13:45		Analyzed: 08/22/18 15:17							
<u>QC Source Sample: MW-5 (A8H0621-01)</u>												
<u>EPA 8260C</u>												
Benzene	6.53	---	0.200	ug/L	1	---	5.44	---	---	18	30%	---
Toluene	5.31	---	1.00	ug/L	1	---	4.44	---	---	18	30%	---
Ethylbenzene	106	---	0.500	ug/L	1	---	93.2	---	---	13	30%	---
Xylenes, total	42.7	---	1.50	ug/L	1	---	36.8	---	---	15	30%	---
Naphthalene	72.0	---	2.00	ug/L	1	---	67.5	---	---	7	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

Apex Laboratories

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Darrell Auvil, Project Manager



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
--	--	--

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8081003							
A8H0621-01	Water	NWTPH-Gx (MS)	08/16/18 12:40	08/22/18 13:45	5mL/5mL	5mL/5mL	1.00

BTEX+N Compounds by EPA 8260C

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8081003							
A8H0621-01	Water	EPA 8260C	08/16/18 12:40	08/22/18 13:45	5mL/5mL	5mL/5mL	1.00



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Martin S. Burck Associates, Inc

200 N. Wasco Court
Hood River, OR 97031

Project: Truax Sweet Home

Project Number: [none]

Project Manager: Jonathan White

Report ID:

A8H0621 - 08 29 18 1155

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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Darrell Auvil, Project Manager



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
--	--	--

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Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis. The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
 - "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
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QC Source:

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-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.



<u>Martin S. Burck Associates, Inc</u> 200 N. Wasco Court Hood River, OR 97031	Project: <u>Truax Sweet Home</u> Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.



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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Martin S. Burck Associates, Inc
200 N. Wasco Court
Hood River, OR 97031

Project: **Truax Sweet Home**
Project Number: [none]
Project Manager: **Jonathan White**

Report ID:
A8H0621 - 08 29 18 1155

CHAIN OF CUSTODY

Lab # **A8H0621** COC 1 of 1

PO#

Company: **MSBA** Project Mgr: **Jon White** Project Name: **Truax - Sweet Home** Project #:

Address: **200 N Wasco Ct., Hood River, OR 97031** Phone: **541-387-4422** Fax: **541-387-4813** Email: **jwhite@msbaenvironmental.com**

Sampled by: **Jon White**

Site Location: **WA**

Other:

SAMPLE ID: **MMW-5**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCCA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Cr, Cu, Co, Ni, Pb, Se, Ag, Na, Ti, V, Zn, Hg, Mn, Mo, Ni, Zn	TOTAL DISS TCLP	1200-COLS	1200-Z		
MMW-5	8/16/18	12:40	W	3	X					X												X	Naphthalene (8260)

Normal Turn Around Time (TAT) = 10 Business Days

YES NO

1 Day 2 Day 3 Day

4 DAY 5 DAY Other:

TAT Requested (circle)

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: **Jon White** Date: **8/24/18** Signature: *[Signature]* Time: **09:30**

RECEIVED BY: **Mike** Date: **8/22/18** Signature: *[Signature]* Time: **11:11**

Printed Name: **Jon White** Printed Name: **Mike** Company: **MSBA** Company: **SAS**



Martin S. Burck Associates, Inc 200 N. Wasco Court Hood River, OR 97031	Project: Truax Sweet Home Project Number: [none] Project Manager: Jonathan White	Report ID: A8H0621 - 08 29 18 1155
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APEX LABS COOLER RECEIPT FORM

Client: MSBA Element WO#: A8 H0621

Project/Project #: Truax - Sweet Home

Delivery info:
Date/Time Received: 8/22/18 @ 1111 By: COB
Delivered by: Apex ___ Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS Other ___

Cooler Inspection Inspected by: COB : 8/22/18 @ 1111

Chain of Custody Included? Yes No ___ Custody Seals? Yes No ___
Signed/Dated by Client? Yes No ___
Signed/Dated by Apex? Yes No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>2.0</u>						
Received on Ice? (Y/N)	<u>Y</u>						
Temp. Blanks? (Y/N)	<u>Y</u>						
Ice Type: (Gel/Real/Other)	<u>Real</u>						
Condition:							

Cooler out of temp? (Y/N) Possible reason why: _____
If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: JS : 8/22/18 @ 1150

All Samples Intact? Yes No ___ Comments: _____

Bottle Labels/COCs agree? Yes No ___ Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes No ___ Comments: _____

Do VOA Vials have Visible Headspace? Yes ___ No NA ___
Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes ___ No ___ NA
Comments: _____

Additional Information: _____

Labeled by: JS Witness: AKX Cooler Inspected by: COB See Project Contact Form: Y