

GALLOWAY ENVIRONMENTAL, INC 15600 NE 8th Street, Suite B1, 617 (425) 894-8607 Bellevue, WA 98008 Dylan@GallowayEnvironmental.com

May 1, 2019

Tamarah Hancock Scarsella Bros. Inc. PO Box 68697 Seattle, Washington 98168

Emailed to: Tamarah.k@scarsellabros.com and Jenifer.m@scarsellabros.com

SUBJECT: SUMMARY STATUS REPORT — GROUNDWATER MONITORING WELL SAMPLE RESULTS AT THE FIRWOOD PIT PROPERTY IN EDGEWOOD, WA SEPA PROJECT #1808 – CLEAR AND GRADE PERMIT #3492

Dear Ms. Hancock:

This letter report presents a summary of Galloway Environmental, Inc.'s (GEI's) findings from the groundwater monitoring event at the Firwood Pit property for March and April 2019.

The scope of work for this quarterly groundwater monitoring report is based on the City of Edgewood's Final Conditions for Firwood Pit Reclamation – Original SEPA project #1808, Clear and Grade Permit #3492 which was updated on November 26, 2018. This report includes: 1) Chemical analytical results of water sampled from four groundwater wells, and 2) Physical properties of groundwater in the monitoring wells.

INTRODUCTION

The Firwood Mine was a sand and gravel surface mine that was exhausted of its aggregate resource before March 1, 2000 when it was assigned and leased to Scarsella Bros., Inc. by the Tim Corliss and Son Company and is now in the reclamation process. The mine is located in the general area east of Freeman Road, adjacent to the west side of 90th Avenue East, south of 33rd Street East, and northeast of Simons Creek. The Site is in the City of Edgewood, Pierce County, Washington.

GROUNDWATER SAMPLING SUMMARY

On March 29, 2019 and April 1, 2019, GEI collected groundwater samples from groundwater monitoring wells MW-1, MW-2, MW-3a, and MW-4 and submitted them to OnSite Environmental, Incorporated, located at 14648 NE 95th Street, Redmond, Washington (OnSite Environmental). The locations of the wells are shown on Figure 1 of this report.

Prior to sample collection, GEI gauged and purged each well to evaluate the current groundwater flow conditions and attain groundwater samples that were representative of the site. During the purging process, water quality parameters were measured using a multiparameter water quality meter (model YSI 556 MPS) fitted with a flow-through cell to measure pH, temperature, conductivity, and dissolved oxygen (DO). Additionally, per the updated clear and grade permit, GEI utilized a pH/ORP meter (model Extech SDL 100) to measure oxygen-reduction potential (ORP). Each meter was calibrated prior to use using a 3-point pH calibration process (pH valued at 4.02, 7.02, and 10.04). The YSI 556 MPS meter was further calibrated using a 3-point conductivity process (conductivity valued at 84 micrograms per centimeter [μ g/cm], 1,413 μ g/cm, and 12,880 μ g/cm).

The pH measured at the conclusion of the purging process ranged from 6.06 to 6.47 using the YSI 556 MPS meter and 6.38 to 6.90 using the Extech SDL 100 meter. The variation among the pH measurements is likely due to variations in temperatures measured from each meter. The conductivity measured at the conclusion of the purging process ranged from 0.114 milliSiemens per centimeter (mS/cm) to 0.303 mS/cm. The DO

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measured at the conclusion of the purging process ranged from 0.35 milligrams per liter (mg/L) to 5.86 mg/L. The ORP measured at the conclusion of the purging process ranged from 4 millivolts (mV) to 32 mV. Turbidity was observed to be clear in all wells at the conclusion of the purging process. GEI purged a minimum of three well volumes from each well as indicated in Table 1, below.

	Table 1 – Groundwater Volumes March & April 2019									
Well Number	Total Depth (feet below top of casing surface)	Depth to Water (feet)	Volume (gallons)	Volume Purged (gallons)						
MW-1	20.10	8.95	1.784	6.0						
MW-2	77.82	70.48	1.17	4.5						
MW-3a	136.12	129.15	1.11	3.4						
MW-4	107.28	99.60	1.23	4.0						

The samples were analyzed for petroleum hydrocarbons using the Northwest Total Petroleum Hydrocarbons as Hydrocarbon Identification (NWTPH-HCID) method and total and dissolved arsenic using the United States Environmental Protection Agency (US EPA) method 200.8. The groundwater sample collected from MW-3a was additionally analyzed for Northwest Petroleum Hydrocarbons as Gasoline (NWTPH-Gas) using the and volatile organic compounds (VOCs) using the US EPA method 8260C. Laboratory chemical analytical results are summarized as follows (See Table 1 for a summary of the laboratory results).

- Laboratory analytical screening for petroleum hydrocarbons in the groundwater sample collected from MW-3a resulted in the detection of gasoline-range hydrocarbons. This was followed up with NWTPH-Gas analysis and VOC analysis which resulted in non-detectable concentrations of gasoline and the detected concentrations of acetone and 2-butanone (methyl ethyl ketone [MEK]). Acetone was detected at a concentration of 3,700 micrograms per liter (µg/L), below its MTCA Method B Cleanup Level of 7,200 µg/L. 2-butanone was detected at a concentration of 3,100 µg/L, below its MTCA Method B Cleanup Level of 4,800 µg/L. To investigate the source(s) of acetone and 2-butanone, GEI surveyed the well casing with an endoscope which confirmed the presence of a blue polyvinyl chloride cement that appears to have been used during the vertical extension of the well. Upon receipt and confirmation of the laboratory analytical results for acetone and 2-butanone, GEI notified you of the findings and recommended extraction of the impacted water and reconstruction of the well extension by a licensed driller.
- Laboratory analyses resulted in the detections of total and dissolved arsenic at concentrations of 4.8 μ g/L and 4.9 μ g/L, respectively, in the groundwater sample collected from MW-1. The detected concentrations are below the MTCA Method A Cleanup Level of 5.0 μ g/L and the Maximum Contaminant Level (MCL) of 10.0 μ g/L.
- Laboratory analyses resulted in no other detections of analytes at concentrations equal to, or exceeding, their respective laboratory practical quantitation limits (PQLs) in any of the groundwater samples analyzed.

As noted above, if not yet completed, GEI recommends notifying the appropriate regulatory agencies of the findings, extracting the impacted water from MW-3a, reconstructing the casing extension of MW-3a by a licensed driller, and resurveying the wells by a licensed land surveyor. Upon completion of these tasks, the groundwater elevations may be re-calculated to more accurately represent groundwater flow conditions.

As per the City of Edgewood's Final Conditions for the Clear and Grade Permit (#3492), petroleum hydrocarbon compounds and dissolved arsenic will be tested quarterly; and polycyclic aromatic hydrocarbons (PAHs) will be tested annually for the wells.

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Should you have any questions regarding this report or if you would like to discuss our findings, please contact us at any of the addresses listed on top of this letter.

Respectfully Submitted, GALLOWAY ENVIRONMENTAL, INC.

Dylan Galloway, REA President cc: Jenifer A. Morrison, SBI

	Table	e 2 — Grou	ndwater S	ample Res	sults Summ	ary, Units =	µg/L (ppb	-water)
Sample ID	Sample Date	NWTPH- HCID	NWTPH Gx	BTEX	NWTPH -Dx	PAHs (EPA 8270 SIM)	Arsenic (EPA 7060)	Remarks
MW-1	2/3/12	ND					14	
"	5/2/12	ND						
"	7/19/12	ND				ND	ND	
"	10/29/12	ND						
"	1/14/13	ND					26	
"	4/19/13	ND						
"	7/23/13	ND				ND	18	
"	10/17/13	ND						
"	1/28/14	ND					30	
"	4/3/14	ND						
"	7/14/14	ND				ND	26	
"	10/10/14	ND						
"	12/20/14	ND					29	
"	4/28/15	ND						
"	6/25/15	ND				ND	6.6	
"	10/3/15	ND						
"	1/22/16	ND					40	
"	4/13/16	ND						
"	7/25/16	ND				ND	15	
"	10/17/16	ND						
"	1/27/17	ND					22	
					Lube Oil			
"	4/13/17	Detect	ND	ND	720			
"	11/4/17	ND						
"	1/30/18	ND					8.7	
"	4/30/18	ND						
"	6/29/18	ND						
"	9/27/18	ND						
"	12/27/18	ND					13/11**	
"	3/29/19	ND					4.8/4.9**	
MW-2	2/3/12	ND					ND	
"	5/2/12	ND						
"	7/19/12	ND				ND	ND	
"	10/29/12	ND						
"	1/14/13	ND					7	
"	4/19/13	ND						
"	7/23/13	ND				ND	ND	
"	10/17/13	ND						
"	1/28/14	ND					3.6	
"	4/3/14	ND						
						I	1	

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Sample ID	Date	NWTPH- HCID	NWTPH Gx	BTEX	NWTPH -Dx	PAHs (EPA 8270 SIM)	Arsenic (EPA 7060)	Remarks
MW-2 (Cor	itinued)							
"	7/14/14	ND				ND	5.2	
"	10/10/14	ND						
"	12/20/14	ND					ND	
ű	4/28/15	ND						
	6/25/15	ND				ND	ND	
ű	10/3/15	ND						
ű	1/22/16	ND					2.7	
"	4/13/16	ND						
ű	7/25/16	ND				ND	3.6	Cr = 11, Pb = 3.4 ppb
ű	10/17/16	ND						
ű	1/27/17	ND					ND	
ű	4/13/17	ND						
ű	11/4/17	ND						
"	1/30/18	ND					ND	
"	4/30/18	ND						
	6/29/18	ND				ND	ND	
"	9/27/18	ND						
"	12/27/18	ND					ND/ND**	
"	3/29/19	ND					ND/ND**	
MW-3	2/3/12	ND						MW-3 was not accessible for sampling
"	5/2/12	ND					ND	
"	7/19/12	ND				ND	ND	
"	10/29/12	ND						
"	1/14/13	ND						
ű	4/19/13	ND						
"	7/23/13	ND				ND	ND	
"	10/17/13	Detect			Lube Oil 420			
"	1/28/14	ND					ND	
"	4/3/14	ND						
"	7/14/14	Detect			Lube Oil 510	ND	ND	
"	7/30/14	ND						Re-sample MW-3
"	10/10/14	ND						
"	12/20/14							Well plugged - no sample
"	4/28/15							Well plugged - no sample

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			-		,		î.) (Continued)
Sample ID	Date	NWTPH- HCID	NWTPH Gx	BTEX	NWTPH -Dx	PAHs (EPA 8270 SIM)	Arsenic (EPA 7060)	Remarks
MW-3 (Cor	itinued)	r	9					1
"	6/25/15	ND				ND - See note	6.1	ND except Benzo(a)anthracene = 0.012
n	10/3/15							Well covered - no sample
"	1/22/16							II.
"	4/13/16							"
"	7/25/16							
"	10/17/16							"
"	4/13/16							"
"	7/25/16							
"	10/17/16							"
"	1/27/17							Well plugged (abandoned)
MW-3a	2/24/17	Detect	ND	ND	Lube Oil = 420	ND except 2- Methylnapth alene = 0.11 (not considered a carcinogen (cPAH))		New well replaced MW 3
"	4/13/17	ND						"
"	11/4/17							"
"	1/30/18	ND					8.7	"
"	4/30/18	ND						"
	6/29/18	ND				ND	ND	
"	9/27/18	ND						
"	12/27/18 4/1/19	ND ND	ND				11/ND** ND/ND**	Acetone @ 3,700 μg/L MEK @ 3,100 μg/L ²
MW-4	2/3/12	ND					ND	
"	5/2/12	ND						
"	7/19/12	ND				ND	ND	
"	10/29/12	ND						
"	1/14/13	ND						
"		ND					5.1	
"	4/19/13						 6 7	
	7/23/13	ND				ND	6.7	
"	10/17/13	ND						
	1/28/14	ND						

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	Table 2 – C	Groundwate	er Sample	Results S	ummary, U	nits = µg/L (p	opb-water)	(Continued)
Sample ID	Date	NWTPH- HCID	NWTPH Gx	BTEX	NWTPH -Dx	PAHs (EPA 8270 SIM)	Arsenic (EPA 7060)	Remarks
MW-4 (Con	tinued)		·	,				
"	4/3/14	ND						
"	7/14/14	ND				ND	11	
"	10/10/14	ND						
"	12/20/14	ND					7.6	
"	4/28/15	ND						
"	6/25/15	ND				ND	6.1	
"	10/3/15	ND						
"	1/22/16	ND					ND	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
"	4/13/16	ND						
"	7/25/16	ND				ND	ND	
"	10/17/16	ND						
"	1/27/17	ND					ND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
"	4/13/17	ND						
"	11/4/17	ND						
"	1/30/18	ND					ND	
"	4/30/18	ND						
"	6/29/18	ND				ND	ND	
"	9/27/18	ND						
"	12/27/18	ND					ND/ND**	
"	3/29/19	ND					ND/ND**	
MTCA A Po CULs	otable Grou	ndwater	500	5/1000/ 700/1000	500	TEC=0.012	5.0/10.0 ¹	

Notes:

See figure for sample locations

MTCA Method A or Method B

- - - = Not analyzed

ND = Not Detected at a concentration equal to or exceeding the laboratory PQL

** = Laboratory results presented as total arsenic on left and dissolved arsenic on right of "/"

1 = MTCA Method A Cleanup Level for groundwater is 5.0 μg/L. The Maximum Contaminant Level (MCL) for Drinking Water is 10.0 μg/L

2 = MTCA Method B Cleanup Level for acetone and MEK (2-butanone) in groundwater are 7,200 μg/L and 4,800 μg/L, respectively.

	Tab	le 3 – Water I	Elevations and S	Sample L	.og Data Summ	nary
Date	Well #	Water Elevation (Feet amsl)	Temperature °C	рН	Conductivity µS	Color
2/3/2012	MW-1	35.11	9.5	7.22	525	clear
"	MW-2	35.10	12.0	7.20	191	clear
"	MW-3					No access to well
"	MW-4	35.11	12.9	7.20	284	clear
5/3/2012	MW-1	35.42	11.8	7.22	582	clear
"	MW-2	35.50	12.6	7.19	186	clear
"	MW-3	35.30	12.4	7.22	259	clear
"	MW-4	35.48	13.6	7.20	275	clear
7/19/2012	MW-1	34.47	13.2	7.19	271	clear
"	MW-2	34.60	13.3	7.16	182	clear
"	MW-3	34.51	13.3	7.20	222	clear
"	MW-4	34.66	13.6	7.21	260	clear
10/29/12	MW-1	32.66	11.5	7.19	328	clear
"	MW-2	32.70	11.9	7.16	198	clear
"	MW-3	32.64	11.4	7.20	262	clear
"	MW-4	32.55	11.4	7.21	285	clear
1/14/13	MW-1	33.95	9.2	7.23	519	clear
"	MW-2	33.94	9.1	7.23	373	clear
"	MW-3	33.90	9.2	7.23	372	clear
"	MW-4	33.89	9.1	7.23	285	clear
4/19/13	MW-1	34.46	12.2	7.20	432	clear
"	MW-2	34.52	11.1	7.21	236	clear
"	MW-3	34.50	11.3	7.22	302	clear
"	MW-4	34.41	11.5	7.21	382	clear
7/23/13	MW-1	32.45	13.1	7.15	232	clear
"	MW-2	32.50	12.8	7.20	236	clear
"	MW-3	32.43	12.9	7.21	282	clear
"	MW-4	32.46	12.6	7.21	312	clear
10/17/13	MW-1	33.44	13.1	7.21	415	clear
"	MW-2	33.49	12.8	7.22	185	clear
"	MW-3	33.20	10.8	7.21	227	clear
"	MW-4	35.36	12.1	7.22	268	clear

Т	able 3 – V	Vater Elevation	ons and Sample	e Log Da	ta Summary (Co	ontinued)
Date	Well #	Water Elevation (Feet amsl)	Temperature °C	рН	Conductivity µS	Color
1/28/14	MW-1	33.44	9.6	7.22	520	clear
"	MW-2	33.49	9.8	7.23	368	clear
"	MW-3	33.20	9.5	7.23	351	clear
"	MW-4	35.36	9.7	7.23	298	clear
4/3/14	MW-1	34.62	11.9	7.20	452	clear
"	MW-2	34.65	11.6	7.22	348	clear
	MW-3	34.64	11.4	7.23	335	clear
"	MW-4	34.58	11.1	7.22	298	clear
7/14/14	MW-1	34.12	12.9	7.23	283	clear
"	MW-2	34.13	12.3	7.20	201	clear
"	MW-3	34.19	12.7	7.21	229	clear
"	MW-4	34.20	12.8	7.22	282	clear
12/20/14	MW-1	34.43	13.0	7.20	386	clear
"	MW-2	34.44	12.8	7.22	210	clear
"	MW-3					Not sample
"	MW-4	32.47	13.0	7.21	385	clear
4/28/15	MW-1	33.96	12.8	7.20	393	clear
"	MW-2	33.99	12.4	7.21	224	clear
"	MW-3					Not sample
"	MW-4	32.49	13.4	7.22	396	clear
6/25/15	MW-1	33.97	14.3	6.82	352	clear
"	MW-2	34.10	13.4	7.14	199	clear
"	MW-3	34.01	15.3	7.03	264	clear
"	MW-4	34.16	15.3	7.01	242	clear
10/3/15	MW-1	32.56	14.9	7.13	314	clear
"	MW-2	32.91	12.9	7.16	206	clear
"	MW-3					Not sampled
"	MW-4	32.80	14.1	7.17	310	clear
1/22/16	MW-1	34.61	12.9	7.20	356	clear
"	MW-2	34.63	13.1	7.18	208	clear
"	MW-3					Not sampled
"	MW-4	34.57	13.6	7.22	298	clear

	Table 3 –	Water Elevati	ons and Sample L	og Data Su	mmary (Contin	nued)
Date	Well #	Water Elevation (Feet amsl)	Temperature °C	рН	Conductivity µS	Color
4/13/16	MW-1	34.68	13.8	7.02	298	clear
"	MW-2	34.92	14.1	7.19	255	clear
11	MW-3					Not sampled
"	MW-4	34.86	14.5	7.21	296	clear
7/25/16	MW-1	34.14	14.2	7.02	298	clear
"	MW-2	34.53	13.5	7.19	255	clear
"	MW-3					Not sampled
"	MW-4	34.56	13.9	7.20	306	clear
10/17/16	MW-1	33.77	12.4	7.06	306	clear
"	MW-2	33.92	12.9	7.11	268	clear
II	MW-3					Not sampled
"	MW-4	33.96	13.5	7.18	312	clear
1/27/17	MW-1	34.52	12.4	7.06	268	clear
"	MW-2	34.66	12.9	7.11	245	clear
II	MW-3					Not sampled
"	MW-4	34.51	13.5	7.18	371	clear
2/24/17	MW-1	37.99	12.4	7.06	268	clear
"	MW-2	38.55	12.9	7.11	245	clear
11	MW-3a	38.44	13.2	7.07	412	clear
ű	MW-4	38.36	13.5	7.18	371	clear
4/13/17	MW-1	38.32	12.4	7.08	279	clear
"	MW-2	38.94	12.9	7.10	230	clear
"	MW-3a	38.82	13.2	7.12	408	clear
"	MW-4	38.73	13.5	7.08	295	clear
11/4/17	MW-1	36.92	10.8	6.36	455.9	clear
"	MW-2	37.58	7.3	6.45	371.9	clear
"	MW-3a	37.42	11.4	7.61	3.8	clear
	MW-4	34.67	13.6	7.10	307	clear
1/30/18	MW-1	38.26	9.3	5.79	764.8	clear
"	MW-2	38.82	9.2	6.34	763.3	clear
"	MW-3a	38.68	9.8	6.52	762.9	clear
	MW-4	38.59	9.7	6.18	763.6	clear
4/30/18	MW-1	37.92	8.39	5.76	286	clear
"	MW-2	38.61	9.34	5.97	126	clear
"	MW-3a	38.47	9.35	6.23	410	clear
"	MW-4	38.49	9.74	5.61	207	clear

	Table	3 – Water I	Elevations and	d Sample Lo	g Data Summ	ary (Cont	tinued)	
Date	Well #	Water Elevation (Feet	Temperature °C	рН	Conductivity µS/cm	Color	DO (mg/L)	ORP (mV)
6/29/18	MW-1	36.26	9.58	6.48	330	clear	0.33	50.9
"	MW-2	36.91	9.68	6.88	193	clear	8.72	39.8
"	MW-3a	36.77	9.44	6.88	460	clear	2.42	23.6
"	MW-4	36.81	10.09	6.45	296	clear	3.47	34.0
9/27/18	MW-1	36.00	10.28	6.52	195	clear	0.62	NM
"	MW-2	36.77	9.84	6.34	115	clear	8.85	NM
"	MW-3a	36.64	9.95	6.41	292	brown	2.65	NM
"	MW-4	36.59	10.82	6.43	194	clear	3.61	NM
12/27/18	MW-1	36.97	9.63	6.24/6.49*	276	clear	0.25	27
"	MW-2	37.48	9.26	6.04/6.33*	119	clear	6.32	37
"	MW-3a	37.36	10.02	6.44/6.52*	199	clear	4.12	27
"	MW-4	37.32	9.81	5.96/6.14*	188	Clear	3.24	48
3/29/19	MW-1	36.50	8.27	6.47/6.76*	256	Clear	0.35	13
3/29/19	MW-2	37.09	9.46	6.06/6.55*	114	Clear	5.86	26
4/1/19"	MW-3a	36.54**	9.82	6.44/6.90*	303	clear	4.01	4
3/29/19	MW-4	36.93	10.42	6.08/6.38*	190	clear	3.69	32

Notes:

amsl = above mean sea level

 $\label{eq:spectral_states} \begin{array}{l} \mu S \mbox{ = microSiemens per centimeter} \\ DO \mbox{ = dissolved oxygen} \end{array}$

mg/L = milligrams per liter

NM = not measured

mV = millivolts

* = First pH value was collected using the YSI 556 MPS meter. The second pH value was collected using the Extech SDL 100 meter

** = Estimation due to recent extension of well casing by approximately 20 feet



Attachment 1 Laboratory Analytical Reports



April 9, 2019

Dylan Galloway Galloway Environmental, Inc. 15600 NE 8th Street, Suite B1, 617 Bellevue, WA 98008

Re: Analytical Data for Project 28027 Laboratory Reference No. 1903-303

Dear Dylan:

Enclosed are the analytical results and associated quality control data for samples submitted on March 29, 2019.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: April 9, 2019 Samples Submitted: March 29, 2019 Laboratory Reference: 1903-303 Project: 28027

Case Narrative

Samples were collected on March 29, 2019 and received by the laboratory on March 29, 2019. They were maintained at the laboratory at a temperature of 2° C to 6° C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

HYDROCARBON IDENTIFICATION NWTPH-HCID

onits. Ing/E (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-1				-	
Laboratory ID:	03-303-01					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	4-1-19	4-1-19	
Diesel Range Organics	ND	0.26	NWTPH-HCID	4-1-19	4-1-19	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	4-1-19	4-1-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	79	50-150				
Client ID:	MW-2					
••	03-303-02					
Laboratory ID:		0.10		4.4.40	4.4.40	
Gasoline Range Organics	ND	0.10	NWTPH-HCID	4-1-19	4-1-19	
Diesel Range Organics	ND	0.26	NWTPH-HCID	4-1-19	4-1-19	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	4-1-19	4-1-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				
Client ID:	MW-4					
Laboratory ID:	03-303-03					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	4-1-19	4-1-19	
Diesel Range Organics	ND	0.26	NWTPH-HCID	4-1-19	4-1-19	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	4-1-19	4-1-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				



HYDROCARBON IDENTIFICATION **NWTPH-HCID** QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W1					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	4-1-19	4-1-19	
Diesel Range Organics	ND	0.25	NWTPH-HCID	4-1-19	4-1-19	
Lube Oil Range Organics	ND	0.40	NWTPH-HCID	4-1-19	4-1-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	73	50-150				



4

DISSOLVED ARSENIC EPA 200.8

onna. ug/L (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-303-01					
Arsenic	4.9	3.0	EPA 200.8		4-5-19	
Client ID:	MW-2					
Laboratory ID:	03-303-02					
Arsenic	ND	3.0	EPA 200.8		4-5-19	
Client ID:	MW-4					
Laboratory ID:	03-303-03					
Arsenic	ND	3.0	EPA 200.8		4-5-19	



DISSOLVED ARSENIC EPA 200.8 QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405D1					
Arsenic	ND	3.0	EPA 200.8		4-5-19	

Analyte	Res	sult	Spike	Level	Source Result	-	rcent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-30	03-01									
	ORIG	DUP									
Arsenic	4.90	4.54	NA	NA			NA	NA	8	20	
MATRIX SPIKES											
Laboratory ID:	03-30	03-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	89.0	82.8	80.0	80.0	4.90	105	97	75-125	7	20	



TOTAL ARSENIC EPA 200.8

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-303-01					
Arsenic	4.8	3.3	EPA 200.8	4-5-19	4-5-19	
Client ID:	MW-2					
Laboratory ID:	03-303-02					
Arsenic	ND	3.3	EPA 200.8	4-5-19	4-5-19	
Client ID:	MW-4					
Laboratory ID:	03-303-03					
Arsenic	ND	3.3	EPA 200.8	4-5-19	4-5-19	



TOTAL ARSENIC EPA 200.8 QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405WM1					
Arsenic	ND	3.3	EPA 200.8	4-5-19	4-5-19	

Analyte	Res	sult	Spike	Level	Source Result	-	rcent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-30	03-01									
	ORIG	DUP									
Arsenic	4.78	5.09	NA	NA			NA	NA	6	20	
MATRIX SPIKES											
Laboratory ID:	03-30	03-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	119	125	111	111	4.78	103	108	75-125	5	20	





Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Image: Standard Level Construction of Curstopy Curstop of Curstopy Curstop of Curstopy Image: Standard Level Image: Standard Level <td< th=""><th>Reviewed/Date</th><th>Received</th><th>Relinquished</th><th>Received</th><th>Relinquished</th><th>Received</th><th>Relinquished</th><th>Signature</th><th>/</th><th></th><th></th><th></th><th>3 mu -4</th><th>2 mw-2</th><th>1 mw-1</th><th>Lab ID Sample Identification</th><th>Sampled by: D. Gallowury</th><th>D GALLENERY</th><th>Project Names</th><th>Project Manager</th><th>Company: Crellowery Environmental, Inc</th><th></th><th>Environmental Inc.</th></td<>	Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	/				3 mu -4	2 mw-2	1 mw-1	Lab ID Sample Identification	Sampled by: D. Gallowury	D GALLENERY	Project Names	Project Manager	Company: Crellowery Environmental, Inc		Environmental Inc.
Chromatograms with final report Data Package: Standard Image: Standard Image: Standard Image: Standard Image: Image: <td>Reviewed/Date</td> <td></td> <td></td> <td></td> <td></td> <td>JAN C</td> <td>Ger</td> <td>Company</td> <td></td> <td></td> <td></td> <td></td> <td>1355 1</td> <td>1150</td> <td>8201</td> <td>Time Sampled Matrix</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(in working days) (Check One)</td> <td>Chain of</td>	Reviewed/Date					JAN C	Ger	Company					1355 1	1150	8201	Time Sampled Matrix						(in working days) (Check One)	Chain of
Chromatograms with final report						Shalps 12mg	SAST BIECK						8	×	6	NWTP NWTP NWTP NWTP Volatil Halogu	PH-HCIE PH-Gx/E PH-Gx PH-Dx () es 8260 enated	D BTEX Acic DC Volatile	I / SG C	0))	Laboratory Number	Custody
	Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs)	Standard Level III Level IV			<u> </u>	an	littered sam	Comments/Special Instructions					XX	XX	X	Semiv (with I PAHs PCBs Organ Organ Chlori Total F Total F Total P HEM (olatiles ow-leve 8270D/ 8082A ochlorin ophosp nated A RCRA M MTCA M MTCA M Metals oil and	8270E el PAHs SIM (lo ne Pes bohorus Acid He Aetals Metals grease	D/SIM s) ticides E Pesticid erbicides	3081B les 8270 \$ 8151A	<u></u>	03-303	



April 10, 2019

Dylan Galloway Galloway Environmental, Inc. 15600 NE 8th Street, Suite B1, 617 Bellevue, WA 98008

Re: Analytical Data for Project 28027 Laboratory Reference No. 1904-006

Dear Dylan:

Enclosed are the analytical results and associated quality control data for samples submitted on April 1, 2019.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: April 10, 2019 Samples Submitted: April 1, 2019 Laboratory Reference: 1904-006 Project: 28027

Case Narrative

Samples were collected on April 1, 2019 and received by the laboratory on April 1, 2019. They were maintained at the laboratory at a temperature of 2° C to 6° C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

HYDROCARBON IDENTIFICATION NWTPH-HCID

Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analvzed	Flags
Client ID:	MW-3a	FQL	Metriod	Flepaleu	Analyzeu	i lago
Laboratory ID:	04-006-01					
Gasoline Range Organics	Detected	0.10	NWTPH-HCID	4-2-19	4-2-19	
Diesel Range Organics	ND	0.25	NWTPH-HCID	4-2-19	4-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	4-2-19	4-2-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				



HYDROCARBON IDENTIFICATION NWTPH-HCID QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0402W1					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	4-2-19	4-5-19	
Diesel Range Organics	ND	0.25	NWTPH-HCID	4-2-19	4-5-19	
Lube Oil Range Organics	ND	0.40	NWTPH-HCID	4-2-19	4-5-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				



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GASOLINE RANGE ORGANICS NWTPH-Gx

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3a					
Laboratory ID:	04-006-01					
Gasoline	ND	100	NWTPH-Gx	4-8-19	4-8-19	
Surrogate: Fluorobenzene	Percent Recovery 108	Control Limits 66-117				



GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

						Date	Date)	
Analyte		Result	PQL	Me	ethod	Prepared	Analyz	ed	Flags
METHOD BLANK									
Laboratory ID:		MB0408W1							
Gasoline		ND	100	NW	ГРН-Gx	4-8-19	4-8-1	9	
Surrogate:	Pe	rcent Recover	y Control Lim	its					
Fluorobenzene		99	66-117						
				Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE									
Laboratory ID:	04-00	06-01							
	ORIG	DUP							
Gasoline	ND	ND	NA NA		NA	NA	NA	30	
Surrogate:									
Fluorobenzene					108 108	66-117			



VOLATILE ORGANICS EPA 8260C page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3a					
Laboratory ID:	04-006-01					
Dichlorodifluoromethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Chloromethane	ND	50	EPA 8260C	4-2-19	4-2-19	
Vinyl Chloride	ND	10	EPA 8260C	4-2-19	4-2-19	
Bromomethane	ND	34	EPA 8260C	4-2-19	4-2-19	
Chloroethane	ND	50	EPA 8260C	4-2-19	4-2-19	
Trichlorofluoromethane	ND	10	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloroethene	ND	10	EPA 8260C	4-2-19	4-2-19	
Acetone	3700	250	EPA 8260C	4-2-19	4-2-19	
lodomethane	ND	310	EPA 8260C	4-2-19	4-2-19	
Carbon Disulfide	ND	10	EPA 8260C	4-2-19	4-2-19	
Methylene Chloride	ND	50	EPA 8260C	4-2-19	4-2-19	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	4-2-19	4-2-19	
Methyl t-Butyl Ether	ND	10	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloroethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Vinyl Acetate	ND	50	EPA 8260C	4-2-19	4-2-19	
2,2-Dichloropropane	ND	10	EPA 8260C	4-2-19	4-2-19	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	4-2-19	4-2-19	
2-Butanone	3100	250	EPA 8260C	4-2-19	4-2-19	
Bromochloromethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Chloroform	ND	10	EPA 8260C	4-2-19	4-2-19	
1,1,1-Trichloroethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Carbon Tetrachloride	ND	10	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloropropene	ND	10	EPA 8260C	4-2-19	4-2-19	
Benzene	ND	10	EPA 8260C	4-2-19	4-2-19	
1,2-Dichloroethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Trichloroethene	ND	10	EPA 8260C	4-2-19	4-2-19	
1,2-Dichloropropane	ND	10	EPA 8260C	4-2-19	4-2-19	
Dibromomethane	ND	10	EPA 8260C	4-2-19	4-2-19	
Bromodichloromethane	ND	10	EPA 8260C	4-2-19	4-2-19	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260C	4-2-19	4-2-19	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	4-2-19	4-2-19	
Methyl Isobutyl Ketone	ND	100	EPA 8260C	4-2-19	4-2-19	
Toluene	ND	50	EPA 8260C	4-2-19	4-2-19	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	4-2-19	4-2-19	



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VOLATILE ORGANICS EPA 8260C page 2 of 2

Client ID: MW-3a Laboratory ID: 04-006-01 1,1,2-Trichloroethane ND 10 EPA 8260C 4-2-19 Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,3-Dichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 2-Hexanone ND 130 EPA 8260C 4-2-19 4-2-19 Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromoethane ND 10 EPA 8260C 4-2-19 4-2-19 1,1,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 Ehylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 sygne ND 10 EPA 8260C 4-2-19 4-2-19 Sygne ND 10 EPA 8260C 4-2-19 4-2-19 Sygne ND 10 EPA 8260C 4-2-19 4-2-19 Isopropylbenzene ND 10 <td< th=""><th></th><th></th><th></th><th></th><th>Date</th><th>Date</th><th></th></td<>					Date	Date	
Laboratory ID: 04-006-01 1,1,2-Trichloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,3-Dichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 1,3-Dichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 2-Hexanone ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromochharne ND 10 EPA 8260C 4-2-19 4-2-19 1,1,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Lhylene ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19	Analyte		PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane ND 10 EPA 8260C 4-2-19 4-2-19 Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,3-Dichloropropane ND 130 EPA 8260C 4-2-19 4-2-19 2-Hexanone ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Syrene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 50 EPA 8260C 4-2-19 4-2-19 Isopopylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,2-Tetrachloroethane </th <th>Client ID:</th> <th>MW-3a</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Client ID:	MW-3a					
Tetrachloroethene ND 10 EPA 8260C 4-2-19 4-2-19 1,3-Dichloropropane ND 130 EPA 8260C 4-2-19 4-2-19 Dibromochloromethane ND 130 EPA 8260C 4-2-19 4-2-19 Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 1,1,2.5 Trichoropopane <td< td=""><td>Laboratory ID:</td><td>04-006-01</td><td></td><td></td><td></td><td></td><td></td></td<>	Laboratory ID:	04-006-01					
1.3. Dichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 2-Hexanone ND 130 EPA 8260C 4-2-19 4-2-19 1.2. Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 1.1.2. Dibromochtane ND 10 EPA 8260C 4-2-19 4-2-19 1.1.1.2. Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 o.Xylene ND 20 EPA 8260C 4-2-19 4-2-19 o.Xylene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 50 EPA 8260C 4-2-19 4-2-19 Bromoform ND 10 EPA 8260C 4-2-19 4-2-19 Isopropylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1.1,2.2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1.2,3-Trichloropropane ND 10 EPA 8260C 4-2-19 4-2-19	1,1,2-Trichloroethane	ND	10	EPA 8260C	4-2-19	4-2-19	
2-Hexanone ND 130 EPA 8260C 4-2-19 4-2-19 Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 12-Dibromoethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 oxylene ND 20 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 50 EPA 8260C 4-2-19 4-2-19 Isopropylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 I_2,3-Tricholropropane ND 10 EPA 8260C 4-2-19 4-2-19 I_2,3-Tricholropropane ND 10 EPA 8260C 4-2-19 4-2-19 I_2,3-Trimethylbenzene	Tetrachloroethene	ND	10	EPA 8260C	4-2-19	4-2-19	
Dibromochloromethane ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromoethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 50 EPA 8260C 4-2-19 4-2-19 Isopropylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichloropropan ND 10 EPA 8260C 4-2-19 4-2-19 2-Chlorotoluene ND	1,3-Dichloropropane	ND	10	EPA 8260C	4-2-19	4-2-19	
1,2-Dibromoethane ND 10 EPA 8260C 4-2-19 4-2-19 Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,1,1,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 m,p-Xylene ND 10 EPA 8260C 4-2-19 4-2-19 o-Xylene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 10 EPA 8260C 4-2-19 4-2-19 Isopropylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 Bromobenzene ND 10 EPA 8260C 4-2-19 4-2-19 I,1,2,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 1,2,4-Trimethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,4-Trimethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 <t< td=""><td>2-Hexanone</td><td>ND</td><td>130</td><td>EPA 8260C</td><td>4-2-19</td><td>4-2-19</td><td></td></t<>	2-Hexanone	ND	130	EPA 8260C	4-2-19	4-2-19	
Chlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 11,1,2.7 Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 Ethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 oxylene ND 10 EPA 8260C 4-2-19 4-2-19 oxylene ND 10 EPA 8260C 4-2-19 4-2-19 Styrene ND 10 EPA 8260C 4-2-19 4-2-19 Bromoform ND 50 EPA 8260C 4-2-19 4-2-19 Bromobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Bromobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,2-Tetrachloroethane ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichloropropane ND 10 EPA 8260C 4-2-19 4-2-19 1,3-5-Timethylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,3-5-Timethylbenzene	Dibromochloromethane	ND	10	EPA 8260C	4-2-19	4-2-19	
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1,2-Dichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 n-Butylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromo-3-chloropropane ND 65 EPA 8260C 4-2-19 4-2-19 1,2-Dibromo-3-chloropropane ND 65 EPA 8260C 4-2-19 4-2-19 1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits Volumetation 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 70luene-d8 101 80-127	p-Isopropyltoluene	ND	10	EPA 8260C	4-2-19	4-2-19	
n-Butylbenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2-Dibromo-3-chloropropane ND 65 EPA 8260C 4-2-19 4-2-19 1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits Volumetations Volumetations Volumetations Dibromofluoromethane 96 75-127 Volumetations Volumetations Volumetations Volumetations 101 80-127 80-127 80-127 Volumetations Volumetations Volumetations		ND	10	EPA 8260C	4-2-19	4-2-19	
1,2-Dibromo-3-chloropropane ND 65 EPA 8260C 4-2-19 4-2-19 1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 4-2-19 4-2-19 Toluene-d8 101 80-127 4-2-19 4-2-19	1,2-Dichlorobenzene	ND	10	EPA 8260C	4-2-19	4-2-19	
1,2-Dibromo-3-chloropropane ND 65 EPA 8260C 4-2-19 4-2-19 1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 4-2-19 4-2-19 Toluene-d8 101 80-127 4-2-19 4-2-19	n-Butylbenzene	ND	10	EPA 8260C	4-2-19	4-2-19	
1,2,4-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits 50 EPA 8260C 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 75/127 50/10 80-127 50/10 50/12	-	ND			4-2-19	4-2-19	
Hexachlorobutadiene ND 50 EPA 8260C 4-2-19 4-2-19 Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits 50 EPA 8260C 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 70/// 70// 80-127		ND	10	EPA 8260C		4-2-19	
Naphthalene ND 50 EPA 8260C 4-2-19 4-2-19 1,2,3-Trichlorobenzene ND 10 EPA 8260C 4-2-19 4-2-19 Surrogate: Percent Recovery Control Limits 4-2-19 4-2-19 Dibromofluoromethane 96 75-127 70/// 4-2-19						4-2-19	
1,2,3-TrichlorobenzeneND10EPA 8260C4-2-194-2-19Surrogate:Percent RecoveryControl LimitsDibromofluoromethane9675-127Toluene-d810180-127							
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane9675-127Toluene-d810180-127	-						
Dibromofluoromethane 96 75-127 Toluene-d8 101 80-127							
Toluene-d8 101 80-127	-	-					
	4-Bromofluorobenzene	101	78-125				



Date of Report: April 10, 2019 Samples Submitted: April 1, 2019 Laboratory Reference: 1904-006 Project: 28027

VOLATILE ORGANICS EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0402W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Chloromethane	ND	1.0	EPA 8260C	4-2-19	4-2-19	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Bromomethane	ND	0.68	EPA 8260C	4-2-19	4-2-19	
Chloroethane	ND	1.0	EPA 8260C	4-2-19	4-2-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Acetone	ND	5.0	EPA 8260C	4-2-19	4-2-19	
lodomethane	ND	6.2	EPA 8260C	4-2-19	4-2-19	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-19	4-2-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-19	4-2-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
2-Butanone	ND	5.0	EPA 8260C	4-2-19	4-2-19	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Chloroform	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Benzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Trichloroethene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Dibromomethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-19	4-2-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-19	4-2-19	
Toluene	ND	1.0	EPA 8260C	4-2-19	4-2-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-19	4-2-19	



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Date of Report: April 10, 2019 Samples Submitted: April 1, 2019 Laboratory Reference: 1904-006 Project: 28027

VOLATILE ORGANICS EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0402W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
2-Hexanone	ND	2.5	EPA 8260C	4-2-19	4-2-19	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-19	4-2-19	
o-Xylene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Styrene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Bromoform	ND	1.0	EPA 8260C	4-2-19	4-2-19	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Bromobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-19	4-2-19	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	4-2-19	4-2-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-19	4-2-19	
Naphthalene	ND	1.0	EPA 8260C	4-2-19	4-2-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-19	4-2-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene						



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VOLATILE ORGANICS EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike Level		Rece	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB040	02W2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.60	8.74	10.0	10.0	86	87	62-129	2	15	
Benzene	9.09	9.12	10.0	10.0	91	91	77-127	0	15	
Trichloroethene	10.7	10.6	10.0	10.0	107	106	70-120	1	15	
Toluene	10.2	10.1	10.0	10.0	102	101	82-123	1	15	
Chlorobenzene	10.7	10.5	10.0	10.0	107	105	79-120	2	15	
Surrogate:										
Dibromofluoromethane					91	94	75-127			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					100	100	78-125			



11

DISSOLVED ARSENIC EPA 200.8

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3a					
Laboratory ID:	04-006-01					
Arsenic	ND	3.0	EPA 200.8		4-5-19	



DISSOLVED ARSENIC EPA 200.8 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405D1					
Arsenic	ND	3.0	EPA 200.8		4-5-19	

Analyte	Res	sult	Spike	Level	Source Result		rcent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-30	03-01									
	ORIG	DUP									
Arsenic	4.90	4.54	NA	NA		NA		NA	8	20	
MATRIX SPIKES											
Laboratory ID:	03-30	03-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	89.0	82.8	80.0	80.0	4.90	105	97	75-125	7	20	



TOTAL ARSENIC EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3a					
Laboratory ID:	04-006-01					
Arsenic	ND	3.3	EPA 200.8	4-5-19	4-5-19	



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TOTAL ARSENIC EPA 200.8 QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405WM1					
Arsenic	ND	3.3	EPA 200.8	4-5-19	4-5-19	

Analyte	Res	sult	Spike	Level	Source Result		rcent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-30	03-01									
	ORIG	DUP									
Arsenic	4.78 5.09 NA NA			NA	NA	6	20				
MATRIX SPIKES											
Laboratory ID:	03-30	03-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	119	125	111	111	4.78	103	108	75-125	5	20	





Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Reviewed/Date	Received	Relinquished	Received .	Relinquished	Received	Relinquished	Signature					1 Min-3a	Lab ID Sample Identification .	D Gallowery	Sampled hv. D Gallowuy	Project Name:	28027	Project Number:		Analytical Laboratory Testing Services	Onsite
Reviewed/Date				(SKO)	130	Company					4/1/15 1200 W	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days 3 Days	Same Day 1 Day	(in working days) (Check One)	Turnaround Request	Chain of
					4/1/15 1400	4/1/19 1400	Date Time					 7 × ⊗ ×	NWTP NWTP NWTP NWTP Volatile Haloge	H-HC H-Gx H-Gx H-Dx es 820	/BTEX (Acid 60C d Volatil	d / SG Cl es 8260C	;	p)	Laboratory Number:		Chain of Custody
Chromatograms with final report Electronic Data Deliverables (EDDs)	Data Package: Standard Level III Level IV			(X) added 4/8/19.22)	Dissolved arsuic container was	Comments/Special Instructions					XX	Semiv (with 16 PAHs 1 PCBs Organ Organ Chlorin Total F Total N TCLP HEM (olatile ow-lev 8270E 8082/ ochloo ophos nated RCRA MCRA Metal oil and	s 82700 vel PAH o/SIM (k A rine Pes sphorus Acid He Metals Metals s d grease	D/SIM	081B es 827 8151/	70D/SIM	04-006		Page of