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September 24, 2019

Lee Delcore
Wisconsin Department of Natural Resources
1155 Pilgrim Parkway
Plymouth, WI 53073

Subject: Herriges Oil Bulk Plant South – Site Investigation cost cap exceedence request #2 (>\$20K).
BRRTS #: 02-67-111819, PECFA #: 53040-9499-15

Dear Mr. Delcore,

A cost estimate (using Usual & Customary schedule of charges) is being submitted for completion of the site investigation at the subject property located at 215 Railroad Street in Kewaskum, Wisconsin. This is required due to COMM 47 rule changes (Comm 47.337(2)) which requires WDNR approval to exceed the cap, meaning any costs incurred above \$20,000 after April 30, 2006, will not be eligible for reimbursement unless previously approved.

As of today's date, \$30,066.31 has been spent of the \$44,850.56 Approved Site Investigation Cap and included: [1] Field Procedures Workplan, [2] Geoprobe/Drilling Project with fifteen Geoprobe borings ranging from 12-15 feet below ground surface (bgs) and five soil borings to 14 feet bgs and converted to five monitoring wells. Ninety-eight soil samples and 15 groundwater samples were collected for field (PID) and/or laboratory analysis (GRO, DRO, VOC, PVOC+Naphthalene, PAH, Lead, TCLP Lead, and TCLP Benzene), [3] Surveying, [4] Two quarterly groundwater monitoring events from all five monitoring wells for VOC, PVOC, PAH, Dissolved Lead, Nitrate/Nitrite, Sulfate, and/or Dissolved Iron & Manganese, [5] Hydraulic Conductivity Testing, [6] Sub Slab Vapor Sampling TO-15 (PVOC+Naphthalene) analysis, and [7] Investigative Waste Disposal.

The proposed work scope to complete the site investigation includes: [1] Conduct second Geoprobe/Drilling Project with six Geoprobe borings to 4 feet bgs for further definition of direct contact PAH's and two soil borings to 14 feet bgs and converted to two monitoring wells to 13 feet bgs for further definition of NR140 PAH exceedences in monitoring well MW-5, [2] Soil Boring/Monitoring Well Permit and Access Agreements, [3] Two quarterly rounds of

groundwater monitoring from all seven site wells for laboratory analysis (VOC/PVOC and PAH), [4] Surveying, [5] Waste disposal, [6] Completion of the Soil and Groundwater Investigation Report, [7] Closure Request concurrent with Site Investigation Report, [8] GIS Packet for source property and up to 4 off-site properties, [9] Cap Maintenance Plan, [10] Profession Engineer review and certification of closure request, and [11] Well abandonment (if case closure is approved). The cost estimate for the above work scope is as follows:

Access Agreement (2) & Soil Boring/MW Permits	\$ 1,081.50
Geoprobe/Drilling Project w/installation of MW's	\$ 4,688.05
Groundwater Monitoring (two events)	\$ 2,426.52
Laboratory Analysis (soil & gw)	\$ 2,087.07
Surveying	\$ 226.90
Investigative Waste Disposal	\$ 791.88
Soil and Groundwater Investigation Report	\$ (cost already approved)
Closure Request concurrent with SIR	\$ 1,287.50
GIS Packet (Source and up to 4 off-site)	\$ 1,440.14
Cap Maintenance Plan	\$ 329.64
Engineer Review & Certification of Closure Request	\$ 1,129.60
Well Abandonment (if closure approved)	\$ 848.24
Change Order Request	\$ 393.23
Total	\$16,730.27

METCO is requesting a cost cap exceedence in the amount of \$16,730.27. This will bring the total site investigation costs to \$61,580.83.

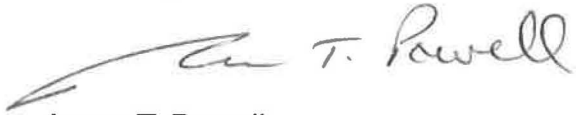
Upon state approval of the proposed work scope and budget, METCO will begin working on access permissions and schedule the second Geoprobe/Drilling project.

Please note that the majority of on-site boring locations show NR720 Direct Contact exceedences mostly for PAH compounds. Based on the results, it does not appear that the cPAH calculator would reduce the number of direct contact exceedences. The site is covered in asphalt (northwest and northern portions), on-site building (center portion), 2-3 feet of gravel (southwest and southern portions), and grass/manicured lawn (western portion). If a cap maintenance plan will not address the direct contact we will need to discuss the option of trying to excavate the site prior to the PECFA Sunset date.

Attached is a site layout map with proposed boring/monitoring well locations, data tables for soil, groundwater, and vapor samples collected thus far, and draft standardized invoice form for the above work scope as required.

Should you have any questions, comments, or recommendations please contact me at our La Crosse office (608) 781-8879 or email at jasonp@metcohq.com.

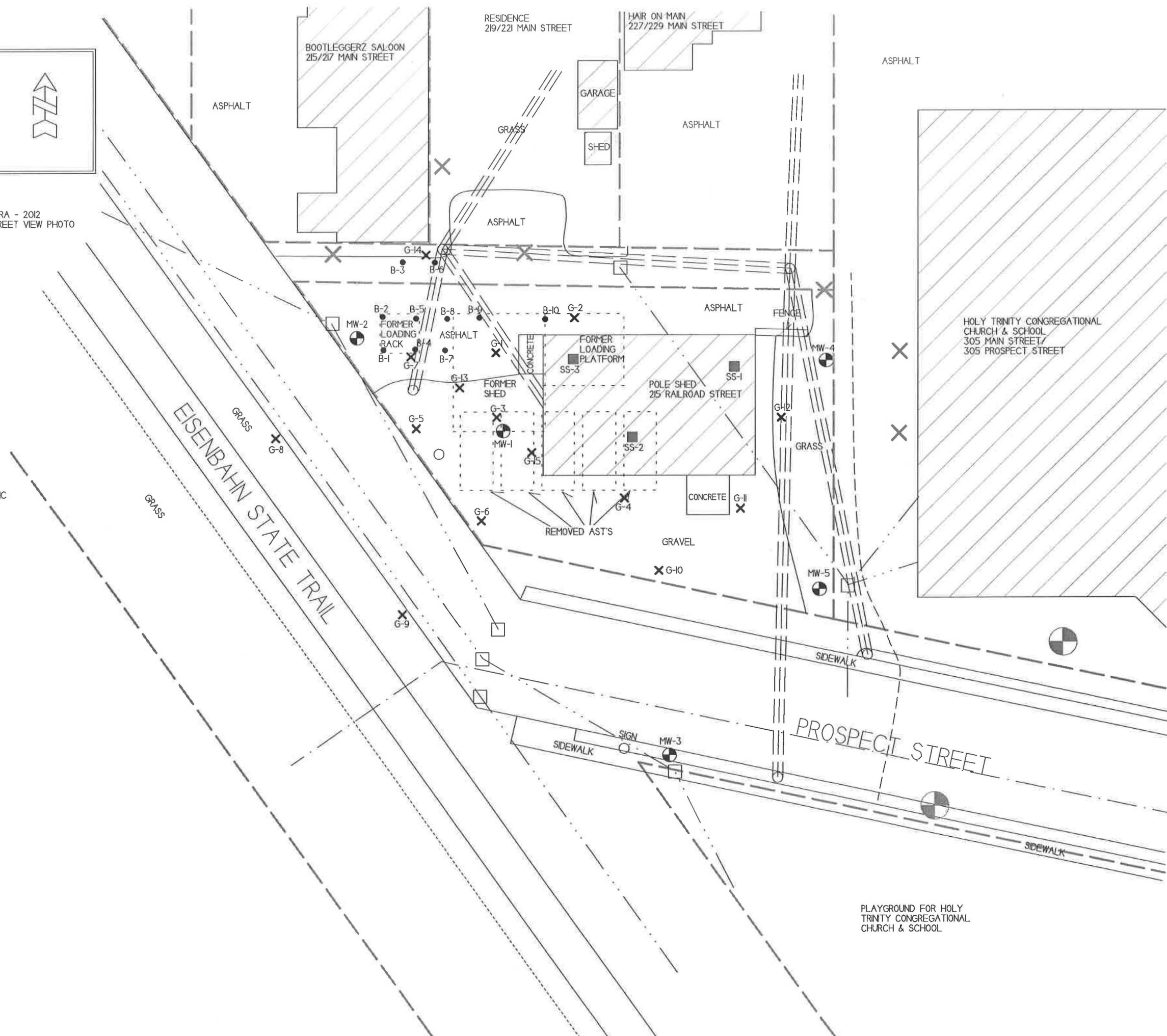
Sincerely,

A handwritten signature in black ink, reading "Jason T. Powell". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Jason T. Powell
Staff Scientist

Attachments

c: Ann Polzean – Client



A.1 Groundwater Analytical Table
 (Geoprobe)
 Herriges Oil BP S BRRTS #02-67-111819

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	3/25/2019	<0.22	0.27	0.29	<2.1	0.45	<1.43	2.47
G-2-W	3/25/2019	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
G-3-W	3/25/2019	68	82	<1.4	440	<0.95	<7.15	<3.60
G-4-W	3/26/2019	<0.22	<0.26	1.33	<2.1	<0.19	<1.43	<0.72
G-5-W	3/25/2019	79	5.1	<1.4	140	1.8	8.5-12.5	9.4-10.85
G-6-W	3/25/2019	38	1.6	5.1	45	0.27	<1.43	12.28
G-7-W	3/26/2019	2.78	<0.26	0.47	18.8	<0.19	<1.43	2.31
G-8-W	3/25/2019	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
G-9-W	3/25/2019	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
G-10-W	3/26/2019	<0.22	<0.26	22.7	<2.1	<0.19	<1.43	<0.72
G-11-W	3/26/2019	1.55	2.65	<1.4	158	<0.95	<7.15	2.05-4.20
G-12-W	3/26/2019	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	1.53
G-13-W	3/26/2019	19.8	<2.6	<2.8	177	<1.9	<14.3	7.1-10
G-14-W	3/26/2019	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
G-15-W	3/26/2019	3.5	0.46	<0.28	26.8	0.33	0.88-1.51	1.43
ENFORCEMENT STANDARD ES = Bold		5	700	60	100	800	480	2000
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled
 (ppb) = parts per billion
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 ppb = parts per billion

A.1 Groundwater Analytical Table
Herriges Oil BP S BRRTS #02-67-111819

Well Sampling Conducted on: 06/18/19 06/18/19 06/18/19 06/18/19 06/18/19

VOC's

Well Name	MW-1	MW-2	MW-3	MW-4	MW-5
Lead, dissolved/ppb	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Benzene/ppb	16.9	7.2	<0.22	< 0.22	< 0.22
Bromobenzene/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Bromodichloromethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Bromoform/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
tert-Butylbenzene/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
sec-Butylbenzene/ppb	1.67 "J"	< 0.79	< 0.79	< 0.79	< 0.79
n-Butylbenzene/ppb	1.85 "J"	< 0.71	< 0.71	< 0.71	< 0.71
Carbon Tetrachloride/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Chlorobenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61
Chloroform/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane/ppb	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
2-Chlorotoluene/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dibromo-3-chloropropane/ppb	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96
Dibromochloromethane/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,4-Dichlorobenzene/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
1,3-Dichlorobenzene/ppb	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
1,2-Dichlorobenzene/ppb	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Dichlorodifluoromethane/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethane/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,1-Dichloroethene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
cis-1,2-Dichloroethene/ppb	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
trans-1,2-Dichloroethene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2-Dichloropropane/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,3-Dichloropropane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,3-Dichloropropene/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
cis-1,3-Dichloropropene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Di-isopropyl ether/ppb	< 0.21	0.30 "J"	< 0.21	< 0.21	< 0.21
EDB (1,2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Ethylbenzene/ppb	4.8	< 0.26	< 0.26	< 0.26	< 0.26
Hexachlorobutadiene/ppb	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34
Isopropylbenzene/ppb	5.9	< 0.78	< 0.78	< 0.78	< 0.78
p-Isopropyltoluene/ppb	1.07	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride/ppb	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Methyl tert-butyl ether (MTBE)/ppb	< 0.28	6.7	0.56 "J"	< 0.28	3.7
Naphthalene/ppb	24.8	< 2.1	< 2.1	< 2.1	< 2.1
n-Propylbenzene/ppb	9.1	< 0.61	< 0.61	< 0.61	< 0.61
1,1,2,2-Tetrachloroethane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,1,2-Tetrachloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Tetrachloroethene (PCE)/ppb	1.05 "J"	0.74 "J"	0.40 "J"	< 0.38	< 0.38
Toluene/ppb	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,2,4-Trichlorobenzene/ppb	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15
1,2,3-Trichlorobenzene/ppb	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71
1,1,1-Trichloroethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Trichloroethene (TCE)/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trichlorofluoromethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2,4-Trimethylbenzene/ppb	3.5	< 0.8	< 0.8	< 0.8	< 0.8
1,3,5-Trimethylbenzene/ppb	2.61	< 0.63	< 0.63	< 0.63	< 0.63
Vinyl Chloride/ppb	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
m&p-Xylene/ppb	1.53	< 0.43	< 0.43	< 0.43	< 0.43
o-Xylene/ppb	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

ENFORCEMENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
15	<i>1.5</i>
5	<i>0.5</i>
==	==
0.6	<i>0.06</i>
4.4	<i>0.44</i>
==	==
==	==
5	<i>0.5</i>
==	==
400	<i>80</i>
6	<i>0.6</i>
30	<i>3</i>
==	==
==	==
0.2	<i>0.02</i>
60	<i>6</i>
75	<i>15</i>
600	<i>120</i>
600	<i>60</i>
1000	<i>200</i>
5	<i>0.5</i>
850	<i>85</i>
7	<i>0.7</i>
70	<i>7</i>
100	<i>20</i>
5	<i>0.5</i>
==	==
0.4	<i>0.04</i>
==	==
0.05	<i>0.005</i>
700	<i>140</i>
==	==
==	==
5	<i>0.5</i>
60	<i>12</i>
100	<i>10</i>
==	==
0.2	<i>0.02</i>
70	<i>7</i>
5	<i>0.5</i>
800	<i>160</i>
70	<i>14</i>
==	==
200	<i>40</i>
5	<i>0.5</i>
5	<i>0.5</i>
==	==
Total TMB's 480	<i>Total TMB's 96</i>
0.2	<i>0.02</i>
Total Xylenes 2000	<i>Total Xylenes 400</i>

NS = not sampled, NM = Not Measured

Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

= = No Exceedences

(ppb) = parts per billion

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table
Herriges Oil BP S BRRTS #02-67-111819

Well MW-1

PVC Elevation = 945.77 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
06/18/19	941.96	3.81	<1.1	16.9	4.8	<0.28	24.8	<0.19	6.11	1.53-1.82
09/10/19	941.79	3.98	NS	20.6	4.8	<0.24	0.224	0.4	3.71	1.51-2.21
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled NM = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

PVC Elevation = 946.00 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
06/18/19	942.35	3.65	<1.1	7.2	<0.26	6.7	<2.1	<0.19	<1.43	<0.72
09/10/19	941.80	4.20	NS	19.4	<0.29	4.3	0.12	<0.29	<1.13	<1.22
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled NM = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

PVC Elevation = 945.70 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
06/18/19	934.54	11.16	<1.1	<0.22	<0.26	0.56	<2.1	<0.19	<1.43	<0.72
09/10/19	934.39	11.31	NS	<0.32	<0.29	<0.24	0.041	<0.29	<1.13	<1.22
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled NM = not measured

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Herriges Oil BP S BRRTS #02-67-111819

Well MW-4

PVC Elevation = 944.56 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl- benzene (ppb)	MTBE (ppb)	Naph- thalene (ppb)	Toluene (ppb)	Trimethyl- benzenes (ppb)	Xylene (Total) (ppb)
06/18/19	935.96	8.60	<1.1	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
09/10/19	935.25	9.31	NS	<0.32	<0.29	<0.24	0.051	<0.29	<1.13	<1.22
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled NM = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

PVC Elevation = 944.37 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl- benzene (ppb)	MTBE (ppb)	Naph- thalene (ppb)	Toluene (ppb)	Trimethyl- benzenes (ppb)	Xylene (Total) (ppb)
06/18/19	936.04	8.33	<1.1	<0.22	<0.26	3.7	<2.1	<0.19	<1.43	<0.72
09/10/19	935.96	8.41	NS	<0.32	<0.29	3.02	0.046	<0.29	<1.13	<1.22
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled NM = not measured

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(PAH)
Herriges Oil BP S BRRTS #02-67-111819

Well MW-1

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
6/18/2019	<0.0282	<0.0468	<0.045	0.049	<0.0501	<0.048	<0.0426	<0.0438	<0.0471	<0.0519	0.032	0.036	<0.0363	<0.0573	<0.0558	<0.078	<0.0429	<0.0363
9/10/2019	0.127	0.057	0.052	0.027	0.0181	0.042	0.0289	0.0167	0.0254	<0.0173	0.042	0.84	<0.0121	0.123	0.107	0.224	0.082	0.037
ENFORCEMENT STANDARD = ES – Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
NS = not sampled NM = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
6/18/2019	<0.0094	<0.0156	<0.015	0.036	0.021	0.033	0.024	0.022	0.035	0.020	0.031	0.013	0.023	<0.0191	<0.0186	0.101	0.042	0.029
9/10/2019	0.0154	<0.0156	0.0165	0.033	0.0276	0.057	0.048	0.021	0.037	<0.0173	0.062	0.0215	<0.0121	0.04	0.0188	0.12	0.046	0.051
ENFORCEMENT STANDARD = ES – Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
NS = not sampled NM = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
6/18/2019	<0.0094	<0.0156	<0.015	0.018	<0.0167	0.038	0.027	0.017	0.027	<0.0173	0.033	<0.0079	0.018	<0.0191	<0.0186	<0.026	0.026	0.038
9/10/2019	<0.0094	<0.0156	<0.015	0.0166	<0.0167	0.0218	0.0143	<0.0146	0.0158	<0.0173	0.0192	<0.0079	<0.0121	0.084	0.066	0.041	0.0218	0.0199
ENFORCEMENT STANDARD = ES – Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
NS = not sampled NM = not measured
Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table
(PAH)
Herriges Oil BP S BRRTS #02-67-111819**

Well MW-4

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
6/18/2019	<0.0094	<0.0156	<0.015	0.024	<0.0167	0.037	0.024	0.017	0.028	<0.0173	0.036	<0.0079	0.022	<0.0191	<0.0186	0.062	0.045	0.031
9/10/2019	<0.0094	<0.0156	0.0277	0.051	0.032	0.076	0.038	0.027	0.055	<0.0173	0.124	0.012	<0.0121	<0.0191	<0.0186	0.051	0.106	0.096
ENFORCEMENT STANDARD = ES – Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
 NS = not sampled NM = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
6/18/2019	0.018	0.229	0.165	0.51	0.59	0.83	0.55	0.292	0.48	0.121	0.71	0.032	0.43	<0.0191	<0.0186	0.049	0.279	0.66
9/10/2019	0.0113	0.206	0.126	0.40	0.49	0.72	0.43	0.227	0.36	0.10	0.52	<0.0079	0.314	<0.01961	<0.0186	0.046	0.185	0.51
ENFORCEMENT STANDARD = ES – Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
 NS = not sampled NM = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.2 Soil Analytical Results Table
Herriges Oil BP S BRRTS #02-67-111819

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5		03/25/19	0.10	210.0	NS	NS	0.075	<0.025	<0.025	0.124	0.084	0.056	0.044	0.143	NS	5	0.7357	4.2E-05
G-1-2	8.0		03/25/19	0.10	NS	NS	NS									NS			
G-1-3	12.0		03/25/19	0.20															
G-2-1	3.5		03/25/19	0.30	49.2	NS	NS	<0.025	<0.025	<0.025	0.082	<0.025	<0.025	0.0284	0.0294-0.0794	NS	0	0.0017	2.6E-07
G-2-2	6.0		03/25/19	1.00	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-3	12.0		03/25/19	0.80															
G-2-4	14.0		03/25/19	0.70															
G-2-5	16.0		03/25/19	0.60															
G-3-1	3.5		03/25/19	275.20	12.8	NS	NS	<1.25	<1.25	<1.25	(58)	1.4	10.7	6.1	6.65	NS	7	0.6271	3.9E-05
G-3-2	5.0		03/25/19	1157.00	NS	2350	4400	0.51	0.33	<0.05	2.78	<0.032	0.035	<0.032	<0.116	SEE VOC SHEET TCLP LEAD <0.1 TCLP BENZENE <0.05			
G-3-3	10.0		03/25/19	1.50															
G-3-4	12.0		03/25/19	1.30															
G-3-5	14.0		03/25/19	1.20															
G-4-1	3.5		03/25/19	2.20	4.1	NS	NS	<0.025	<0.025	<0.025	0.10	<0.025	0.045	<0.025	<0.075	NS	0	0.002	2.8E-07
G-4-2	5.0		03/25/19	22.20	NS	NS	NS	<1.25	<1.25	<1.25	45	<1.25	5.1	4.0	4.73	NS			
G-4-3	10.0		03/25/19	1.90															
G-4-4	12.0		03/25/19	1.00															
G-4-5	14.0		03/25/19	0.90															
G-5-1	3.0		03/25/19	844.00	316.0	NS	NS	2.17	3.2	<0.25	(26.8)	6.1	8.9	9.6	13.8	NS	8	1.3849	7.7E-05
G-5-2	6.0		03/25/19	898.00	NS	NS	NS	0.32	0.92	<0.025	4.5	1.5	0.80	2.07	4.05	NS			
G-5-3	10.0		03/25/19	61.00															
G-5-4	12.0		03/25/19	4.00															
G-5-5	14.0		03/25/19	1.00															
G-6-1	3.5		03/25/19	4.10	11.9	NS	NS	0.082	0.149	<0.025	0.51	0.28	0.39	1.0	0.761	NS	1	0.0549	9.5E-06
G-6-2	6.0		03/25/19	50.40	NS	NS	NS	<0.025	0.111	<0.025	1.71	<0.025	0.262	0.126	0.385	NS			
G-6-3	10.0		03/25/19	2.10															
G-6-4	12.0		03/25/19	3.50															
G-6-5	16.0		03/25/19	3.60															
G-7-1	3.5		03/25/19	13.70	6.3	NS	NS	0.075	<0.025	<0.025	0.141	0.061	<0.025	0.0295	<0.075	NS	0	0.0026	3.3E-07
G-7-2	6.0		03/25/19	2.40	NS	NS	NS	<0.025	0.077	<0.025	0.42	0.035	0.061	0.0296	0.083	NS			
G-7-3	10.0		03/25/19	2.30															
G-7-4	12.0		03/25/19	1.30															
G-7-5	14.0		03/25/19	0.90	NS	NS	NS	<0.025	<0.025	<0.025	0.0277	<0.025	<0.025	<0.025	<0.075	NS			
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
Herriges Oil BP S BRRTS #02-67-111819

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-8-1	3.5		03/25/19	4.30	25.9	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0014	2.5E-07
G-8-2	8.0		03/25/19	2.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-3	10.0		03/25/19	8.60	NOT SAMPLED														
G-8-4	12.0		03/25/19	0.50	NOT SAMPLED														
G-8-5	14.0		03/25/19	1.60	NS	NS	NS	<0.025	<0.025	<0.025	0.045	<0.025	<0.025	<0.025	<0.075	NS			
G-9-1	3.5		03/25/19	9.70	24.8	NS	NS	<0.025	0.048	<0.025	0.39	0.070	0.14	0.080	0.192	NS	0	0.0056	4.2E-07
G-9-2	8.0		03/25/19	8.20	NS	NS	NS	<0.025	0.0281	<0.025	0.251	0.041	0.090	0.055	0.139	NS			
G-9-3	10.0		03/25/19	1.10	NOT SAMPLED														
G-9-4	12.0		03/25/19	2.60	NOT SAMPLED														
G-9-5	14.0		03/25/19	1.40	NS	NS	NS	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	<0.025	<0.075	NS			
G-10-1	3.5		03/25/19	1.80	86.1	NS	NS	<0.025	<0.025	<0.025	0.128	0.072	0.041	0.045	0.049-0.099	NS	1	0.2407	4.9E-06
G-10-2	5.0		03/25/19	1.90	NS	NS	NS	0.030	0.035	0.044	0.114	0.143	0.067	0.066	0.181	NS			
G-10-3	10.0		03/25/19	2.80	NOT SAMPLED														
G-10-4	12.0		03/25/19	1.40	NOT SAMPLED														
G-10-5	14.0		03/25/19	2.20	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-1	3.5		03/25/19	2.20	47.0	NS	NS	<0.25	<0.25	<0.25	11.9	<0.25	<0.25	<0.25	<0.75	NS	7	3.5089	6.9E-04
G-11-2	5.0		03/25/19	53.80	NS	NS	NS	<1.25	<1.25	<1.25	58	<1.25	2.37	1.87	<3.75	NS			
G-11-3	10.0		03/25/19	5.30	NOT SAMPLED														
G-11-4	12.0		03/25/19	0.80	NOT SAMPLED														
G-11-5	14.0		03/25/19	0.80	NS	NS	NS	<0.025	<0.025	<0.025	0.077	<0.025	<0.025	<0.025	<0.075	NS			
G-12-1	3.5		03/25/19	27.50	274.0	NS	NS	<0.25	0.42	<0.25	12.3	0.308	4.2	3.8	2.48	NS	2	0.7894	3.9E-06
G-12-2	5.0		03/25/19	21.90	NS	NS	NS	<1.25	<1.25	<1.25	60	<1.25	5.1	5.5	1.56-4.06	NS			
G-12-3	10.0		03/25/19	3.00	NOT SAMPLED														
G-12-4	12.0		03/25/19	2.20	NOT SAMPLED														
G-12-5	14.0		03/25/19	2.00	NS	NS	NS	<0.025	<0.025	<0.025	0.051	<0.025	<0.025	<0.025	<0.075	NS			
G-13-1	3.5		03/26/19	34.40	4.68	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0029	5.5E-07
G-13-2	5.0		03/26/19	74.20	NS	NS	NS	0.34	0.289	<0.25	4.6	0.62	1.05	0.90	1.68	NS			
G-13-3	10.0		03/26/19	0.60	NOT SAMPLED														
G-13-4	12.0		03/26/19	0.80	NOT SAMPLED														
G-13-5	14.0		03/26/19	0.70	NS	NS	NS	<0.025	<0.025	<0.025	0.041	<0.025	<0.025	<0.025	<0.075	NS			
G-14-1	3.5		03/26/19	1.00	351.0	NS	NS	<0.025	0.0311	<0.025	0.284	0.080	0.112	0.055	0.224	NS	2	0.9333	1.1E-05
G-14-2	8.0		03/26/19	1.10	NS	NS	NS	<0.025	0.032	<0.025	0.161	0.040	0.063	0.032	0.186	NS			
G-14-3	10.0		03/26/19	0.70	NOT SAMPLED														
G-14-4	12.0		03/26/19	0.60	NOT SAMPLED														
G-14-5	14.0		03/26/19	0.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-15-1	3.5		03/26/19	91.10	146.0	NS	NS	<0.025	<0.025	<0.025	0.40	<0.025	0.048	0.035	0.091	NS	0	0.3701	3.3E-07
G-15-2	5.0		03/26/19	342.90	NS	NS	NS	0.29	<0.25	<0.25	9.2	0.37	1.19	1.28	1.17	NS			
G-15-3	10.0		03/26/19	3.60	NOT SAMPLED														
G-15-4	12.0		03/26/19	2.00	NOT SAMPLED														
G-15-5	14.0		03/26/19	1.20	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-1-1	3.5		03/26/19	381.00	NOT SAMPLED												0		
MW-1-2	8.0		03/26/19	852.00	NOT SAMPLED														
MW-1-3	10.0		03/26/19	12.50	NOT SAMPLED														
MW-1-4	12.0		03/26/19	6.10	NOT SAMPLED														
MW-1-5	14.0		03/26/19	4.00	NS	NS	NS	<0.025	<0.025	<0.025	0.0267	<0.025	<0.025	<0.025	<0.075	NS			
MW-2-1	3.5		03/26/19	1.90	261.0	NS	NS	0.0268	<0.025	<0.025	0.262	0.034	0.077	0.042	0.054-0.071	NS	5	1.2972	1.3E-04
MW-2-2	5.0		03/26/19	1.40	NS	NS	NS	<0.025	<0.025	<0.025	0.201	0.034	0.064	0.037	0.104	NS			
MW-2-3	10.0		03/26/19	1.60	NOT SAMPLED														
MW-2-4	12.0		03/26/19	1.70	NOT SAMPLED														
MW-2-5	14.0			1.20	NS	NS	NS	<0.025	<0.025	<0.025	0.0273	<0.025	<0.025	<0.025	<0.075	NS			
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

NM = Not Measured
ND = No Detects

A.2 Soil Analytical Results Table
Herriges Oil BP S BRRTS #02-67-111819

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
MW-3-1	3.5		03/26/19	2.60	3.69	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0014	2.7E-07
MW-3-2	5.0		03/26/19	2.60	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-3-3	10.0		03/26/19	2.10	NOT SAMPLED														
MW-3-4	12.0		03/26/19	2.10	NOT SAMPLED														
MW-3-5	14.0		03/26/19	2.00	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-4-1	0-4		03/26/19	2.80	51.0	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0261-0.0761	NS	3	0.0877	1.8E-05
MW-4-2	4-8		03/26/19	2.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-4-3	8.0		03/26/19	2.00	NOT SAMPLED														
MW-4-4	12.0		03/26/19	2.40	NOT SAMPLED														
MW-4-5	14.0		03/26/19	1.70	NS	NS	NS	<0.025	<0.025	<0.025	0.044	<0.025	<0.025	<0.025	<0.075	NS			
MW-5-1	3.5		03/26/19	2.60	5.79	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0014	2.5E-07
MW-5-2	8.0		03/26/19	2.50	NS	NS	NS	<0.025	<0.025	<0.025	0.071	<0.025	<0.025	<0.025	<0.075	NS			
MW-5-3	10.0		03/26/19	1.90	NOT SAMPLED														
MW-5-4	12.0		03/26/19	1.80	NOT SAMPLED														
MW-5-5	14.0		03/26/19	1.60	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.11	1.38			3.96	-		
<u>Non-Industrial Direct Contact RCL</u>					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

NM = Not Measured
ND = No Detects

A.2 Soil Analytical Results Table
(PAH)
Herriges Oil BP S BRRTS #02-67-111819

Sample	Depth (feet)	Saturation U/S	Date	Acenaph- thene (ppm)	Acenaph- thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl- naphthalene (ppm)	2-Methyl- naphthalene (ppm)	Naph- thalene (ppm)	Phenan- threne (ppm)	Pyrene (ppm)	DIRECT CONTACT		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5		03/25/19	0.16	0.54	0.91	2.46	(3.60)	5.00	3.50	1.59	3.70	0.239	6.00	0.301	2.61	0.166	0.198	0.172	2.60	5.40	5	0.7357	4.2E-05
G-2-1	3.5		03/25/19	<0.0163	0.01	<0.0043	<0.016	<0.0124	<0.0109	0.0111	<0.0091	<0.006	<0.0101	0.0057	<0.0086	<0.0082	<0.0086	<0.0147	<0.0153	<0.0071	<0.0067	0	0.0017	2.6E-07
G-3-1	3.5		03/25/19	0.44	0.65	0.73	1.71	(2.22)	3.30	2.37	1.03	2.43	0.13	3.60	1.28	1.57	19.6	24	12.6	2.56	3.50	7	0.6271	3.9E-05
G-4-1	3.5		03/25/19	<0.0163	0.0124	0.0049	<0.016	<0.0124	0.0154	0.0106	<0.0091	0.0102	<0.0101	0.0173	<0.0086	<0.0082	0.164	0.038	0.059	0.0164	0.0143	0	0.002	2.8E-07
G-5-1	3.0		03/25/19	1.87	1.94	1.69	2.83	(5.00)	7.40	6.40	1.98	4.00	1.33	6.70	3.06	4.60	33.0	13.2	8.20	4.30	7.40	8	1.3849	7.7E-05
G-6-1	3.5		03/25/19	0.0203	0.06	0.262	0.68	0.79	1.10	0.66	0.35	0.84	0.042	1.62	0.044	0.53	0.071	0.097	0.079	0.73	1.32	1	0.0549	9.5E-06
G-7-1	3.5		03/25/19	<0.0163	<0.0086	<0.0043	0.0195	0.0134	0.0209	0.0122	<0.0091	0.0172	<0.0101	0.0214	<0.0086	<0.0082	0.0278	0.0232	<0.0153	0.0242	0.0182	0	0.0026	3.3E-07
G-8-1	3.5		03/25/19	<0.0163	<0.0086	<0.0043	<0.016	<0.0124	<0.0109	<0.0084	<0.0091	<0.006	<0.0101	<0.0054	<0.0086	<0.0082	<0.0086	<0.0147	<0.0153	<0.0071	<0.0067	0	0.0014	2.5E-07
G-9-1	3.5		03/25/19	<0.0163	0.036	0.037	0.0283	0.0167	0.039	0.0229	0.01	0.0294	<0.0101	0.036	0.0089	0.0166	0.274	0.293	0.102	0.148	0.037	0	0.0056	4.2E-07
G-10-1	3.5		03/25/19	0.037	0.07	0.122	0.39	0.41	0.61	0.306	0.192	0.45	0.0255	0.70	0.038	0.235	0.094	0.109	0.076	0.53	0.67	1	0.2407	4.9E-06
G-11-1	3.5		03/25/19	14.1	2.35	59.0	(66.0)	(58.0)	(78.0)	29.5	27.0	65.0	(2.89)	166	26.0	(28.1)	6.00	4.10	4.60	158	130	7	3.5089	6.9E-04
G-12-1	3.5		03/25/19	<0.0163	0.068	0.056	0.101	0.116	0.169	0.129	0.056	0.102	<0.0101	0.165	0.032	0.091	0.071	0.136	0.0192	0.135	0.141	2	0.7894	3.9E-06
G-13-1	3.5		03/26/19	<0.0163	0.0293	0.0166	0.04	0.038	0.054	0.044	0.018	0.036	<0.0101	0.052	0.0098	0.0253	<0.0086	<0.0147	<0.0153	0.038	0.046	0	0.0029	5.5E-07
G-14-1	3.5		03/26/19	<0.0163	0.32	0.202	0.61	0.92	1.38	0.86	0.42	0.79	0.052	0.95	0.045	0.61	0.113	0.142	0.078	0.40	0.91	2	0.9333	1.1E-05
G-15-1	3.5		03/26/19	<0.0163	0.0171	0.06	<0.016	<0.0124	<0.0109	0.022	<0.0091	<0.006	<0.0101	0.0062	0.0209	0.0088	0.154	0.36	0.141	0.05	0.0107	0	0.3701	3.3E-07
MW-2-1	3.5		03/26/19	0.97	0.273	6.70	11.9	(11.0)	15.5	5.90	5.10	11.8	0.59	25.7	2.12	5.60	0.172	0.173	0.097	15.8	20.6	5	1.2972	1.3E-07
MW-3-1	3.5		03/26/19	<0.0163	<0.0086	0.0079	0.0192	0.0134	0.0201	<0.0084	<0.0091	0.0146	<0.0101	0.0247	<0.0086	<0.0082	<0.0086	<0.00147	<0.0153	0.0177	0.0205	0	0.0014	2.7E-07
MW-4-1	0-4		03/26/19	0.34	0.039	0.94	1.52	1.47	2.42	0.90	0.65	1.85	0.061	4.70	0.45	0.85	0.045	0.053	0.042	4.40	3.50	3	0.0877	1.8E-05
MW-5-1	3.5		03/26/19	<0.0163	<0.0086	<0.0043	<0.016	<0.0124	<0.0109	<0.0084	<0.0091	0.0064	<0.0101	0.0102	<0.0086	<0.0082	<0.0086	<0.0147	<0.0153	0.0098	0.0093	0	0.0014	2.5E-07
Groundwater RCL				---	---	197	---	0.47	0.4781	---	---	0.1442	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	17900	1.14	0.115	1.15	---	11.5	115	0.115	2390	2390	1.15	17.6	239	5.52	---	1790		1.00E+00	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold &Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
PAH = Polynuclear Aromatic Hydrocarbons
PID = Photoionization Detector
VOC's = Volatile Organic Compounds

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

NM = Not Measured
ND = No Detects

A.2 Soil Analytical Results Table
Herriges Oil BP S BRRS #02-67-111819

Sampling Conducted on March 25, 2019

VOC's		Bold = Groundwater RCL	<u>Underline & Bold = Non- Industrial Direct Contact RCL</u>	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C- sat) RCL
Sample ID#	G-3-2				
Sample Depth/ft.	5				
Benzene/ppm	0.51	0.0051	<u>1.6</u>	(7.07)	1820*
Bromobenzene/ppm	< 0.025	=	<u>342</u>	(679)	=
Bromodichloromethane/ppm	< 0.074	0.0003	<u>0.418</u>	(1.83)	=
Bromoform/ppm	< 0.029	0.0023	<u>25.4</u>	(113)	=
tert-Butylbenzene/ppm	0.044 "J"	=	<u>183</u>	(183)	183*
sec-Butylbenzene/ppm	0.55	=	<u>145</u>	(145)	145*
n-Butylbenzene/ppm	1.25	=	<u>108</u>	(108)	108*
Carbon Tetrachloride/ppm	< 0.016	0.0039	<u>0.916</u>	(4.03)	=
Chlorobenzene/ppm	< 0.013	=	<u>370</u>	(761)	761*
Chloroethane/ppm	< 0.091	0.2266	=	=	=
Chloroform/ppm	< 0.035	0.0033	<u>0.454</u>	(1.98)	=
Chloromethane/ppm	< 0.076	0.0155	<u>159</u>	(669)	=
2-Chlorotoluene/ppm	< 0.015	=	=	=	=
4-Chlorotoluene/ppm	< 0.018	=	=	=	=
1,2-Dibromo-3-chloropropane/ppm	< 0.058	0.0002	<u>0.008</u>	(0.092)	=
Dibromochloromethane/ppm	< 0.025	0.032	<u>8.28</u>	(38.9)	=
1,4-Dichlorobenzene/ppm	< 0.037	0.144	<u>3.74</u>	(16.4)	=
1,3-Dichlorobenzene/ppm	< 0.037	1.1528	<u>297</u>	(297)	297*
1,2-Dichlorobenzene/ppm	< 0.028	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	< 0.048	3.0863	<u>126</u>	(530)	=
1,2-Dichloroethane/ppm	< 0.038	0.0028	<u>0.652</u>	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.034	0.4834	<u>5.06</u>	(22.2)	=
1,1-Dichloroethene/ppm	< 0.022	0.005	<u>320</u>	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.032	0.0412	<u>156</u>	(2340)	=
trans-1,2-Dichloroethene/ppm	< 0.028	0.0626	<u>1560</u>	(1850)	=
1,2-Dichloropropane/ppm	< 0.035	0.0033	<u>3.4</u>	(15)	=
1,3-Dichloropropane/ppm	< 0.025	=	<u>1490</u>	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.022	=	<u>1510</u>	(1510)	=
cis-1,3-Dichloropropene/ppm	< 0.039	0.003	<u>1210</u>	(1210)	=
Di-isopropyl ether/ppm	< 0.01	=	<u>2260</u>	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.023	0.0000282	<u>0.05</u>	(0.221)	=
Ethylbenzene/ppm	0.33	1.57	<u>8.02</u>	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.085	=	<u>1.63</u>	(7.19)	=
Isopropylbenzene/ppm	0.84	=	=	=	=
p-Isopropyltoluene/ppm	0.191	=	<u>162</u>	(162)	162*
Methylene chloride/ppm	< 0.15	0.0026	<u>61.8</u>	(1150)	=
Methyl tert-butyl ether (MTBE)/ppm	< 0.05	0.027	<u>63.8</u>	(282)	8870*
Naphthalene/ppm	2.78	0.6582	<u>5.52</u>	(24.1)	=
n-Propylbenzene/ppm	2.16	=	=	=	=
1,1,2,2-Tetrachloroethane/ppm	< 0.028	0.0002	<u>0.81</u>	(3.6)	=
1,1,1,2-Tetrachloroethane/ppm	< 0.028	0.0534	<u>2.78</u>	(12.3)	=
Tetrachloroethene (PCE)/ppm	< 0.032	0.0045	<u>33</u>	(145)	=
Toluene/ppm	< 0.032	1.1072	<u>818</u>	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.064	0.408	<u>24</u>	(113)	=
1,2,3-Trichlorobenzene/ppm	< 0.066	=	<u>62.6</u>	(934)	=
1,1,1-Trichloroethane/ppm	< 0.03	0.1402	=	=	=
1,1,2-Trichloroethane/ppm	< 0.033	0.0032	<u>1.59</u>	(7.01)	=
Trichloroethene (TCE)/ppm	< 0.041	0.0036	<u>1.3</u>	(8.41)	=
Trichlorofluoromethane/ppm	< 0.041	2.2387	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	0.035 "J"	1.3787	<u>219</u>	(219)	219*
1,3,5-Trimethylbenzene/ppm	< 0.032	=	<u>182</u>	(182)	182*
Vinyl Chloride/ppm	< 0.019	0.0001	<u>0.07</u>	(2.08)	=
m&p-Xylene/ppm	< 0.072	3.96	<u>260</u>	(260)	260*
o-Xylene/ppm	< 0.044	=	=	=	=

NS = Not Sampled, NM = Not Measured

(ppm) = parts per million

= = No Exceedences

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Note: Non-Industrial RCLs apply to this site.

A.4 Vapor Analytical Table
Sub-Slab Sampling Data Table for Herriges Oil BP S
BY METCO

Sub-Slab Sampling conducted on September 11, 2019

WDNR

Small Commercial
Sub-Slab Vapor Action
Levels for Various VOCs

Quick Look-Up Table
Updated November, 2017

Sample ID	SS-1	SS-2	SS-3	(ug/m ³)	
Benzene – ug/m ³	0.64	3.3	0.65	530	c
Carbon Tetrachloride – ug/m ³	NS	NS	NS	670	c
Chloroform – ug/m ³	NS	NS	NS	180	c
Chloromethane – ug/m ³	NS	NS	NS	13000	n
Dichlorodifluoromethane – ug/m ³	NS	NS	NS	15000	n
1,1-Dichloroethane (1,1-DCA) – ug/m ³	NS	NS	NS	2600	c
1,2-Dichloroethane (1,2-DCA) – ug/m ³	NS	NS	NS	160	c
1,1-Dichloroethylene (1,1-DCE) – ug/m ³	NS	NS	NS	29000	n
1,2-Dichloroethylene (cis and trans) – ug/m ³	NS	NS	NS	NA	-
Ethylbenzene – ug/m ³	<1.5	2.1	2.2	1600	c
Methylene chloride – ug/m ³	NS	NS	NS	87000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m ³	<6.4	<6.6	<6.4	16000	c
Naphthalene – ug/m ³	<4.7	<4.8	<4.7	120	c
Tetrachloroethylene -ug/m ³	NS	NS	NS	6000	n
Toluene – ug/m ³	2.9	6.2	3.4	730000	n
1,1,1-Trichloroethane – ug/m ³	NS	NS	NS	730000	n
Trichloroethylene – ug/m ³	NS	NS	NS	290	n
Trichlorofluoromethane (Halcarbon 11) – ug/m ³	NS	NS	NS	NA	-
Trimethylbenzene (1,2,4) – ug/m ³	2.5	3.3	9.3	8700	n
Trimethylbenzene (1,3,5) – ug/m ³	<1.7	<1.8	<1.7	8700	n
Vinyl chloride – ug/m ³	NS	NS	NS	930	c
Xylene (total) -ug/m ³	<4.6	7.2	11.9	15000	n

ug/m³ = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

Bold = Sub-Slab Standard Exceedance

NS = Not sampled

c = Carcinogen

n = Non Carcinogen

J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)

*** Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.**

B = Compound was found in the blank and sample

E = Result exceeded calibration range

A.6 Water Level Elevations
Herriges Oil BP S BRRTS #02-67-111819
Kewaskum, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5
Ground Surface (feet msl)	946.01	946.30	946.02	944.95	944.76
PVC top (feet msl)	945.77	946.00	945.70	944.56	944.37
Well Depth (feet)	13.00	13.00	13.00	13.00	13.00
Top of screen (feet msl)	943.01	943.30	943.02	941.95	941.76
Bottom of screen (feet msl)	933.01	933.30	933.02	931.95	931.76
 Depth to Water From Top of PVC (feet)					
06/18/19	3.81	3.65	11.16	8.60	8.33
09/10/19	3.98	4.20	11.31	9.31	8.41
 Depth to Water From Ground Surface (feet)					
06/18/19	4.05	3.95	11.48	8.99	8.72
09/10/19	4.22	4.50	11.63	9.70	8.80
 Groundwater Elevation (feet msl)					
06/18/19	941.96	942.35	934.54	935.96	936.04
09/10/19	941.79	941.80	934.39	935.25	935.96

Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
Herriges Oil BP S BRRTS #02-67-111819

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/18/19	2.79	6.03	-102.8	12.99	1478	<0.47	30.9	0.03	1010
09/10/19	0.93	7.10	-39.5	18.05	1621	NS	NS	NS	NS
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/18/19	2.76	6.40	-104.0	15.96	1484	<0.47	18.3	0.04	1120
09/10/19	1.49	6.99	89.10	20.42	1176	NS	NS	NS	NS
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/18/19	3.22	6.76	-80.2	12.15	3120	<0.47	82.4	<0.03	572
09/10/19	2.51	7.28	315.20	17.21	2630	NS	NS	NS	NS
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
Herriges Oil BP S BRRTS #02-67-111819

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/18/19	3.01	6.47	-90.5	11.08	1036	<0.47	11.1	0.14	173
09/10/19	2.85	7.25	313.50	15.83	418	NS	NS	NS	NS
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/18/19	2.99	6.42	-96.9	11.38	1679	<0.47	27.8	0.15	503
09/10/19	1.03	7.29	298.40	16.19	1674	NS	NS	NS	NS
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

Usual and Customary Standardized Invoice #26

July 2019 - December 2019



RR-111a

PECFA #: 53040-9499-15-A Vendor Name: _____
 BRRTS #: 02-67-111819 Invoice #: _____
 Site Name: Herriges Oil Bulk Plant South Invoice Date: _____
 Site Address: 215 Railroad St., Kewaskum, WI Check #: _____

U&C Total \$ 16,730.27
 Variance to U&C Total \$ -
 Grand Total \$ 16,730.27

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	\$ 74.62	14	\$ 1,044.68
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$ 690.92	2	\$ 1,381.84
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$ 141.24	1	\$ 141.24
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$ 111.39	3	\$ 334.17
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	\$ 316.47	1	\$ 316.47
5	Closure Request		CR15	Continuing Obligation Packet Submittal (For Source Property	Packet	\$ 522.58	1	\$ 522.58
5	Closure Request		CR20	Continuing Obligation Packet Submittal (For off-site Propertie	Per Additional Property	\$ 229.39	4	\$ 917.56
5	Closure Request		CR25	Closure Request Following SIR	Submittal	\$ 1,287.50	1	\$ 1,287.50
5	Closure Request		CR30	PE review and certification of closure packet	Site	\$ 1,129.60	1	\$ 1,129.60
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$ 162.86	1	\$ 162.86
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$ 2.60	91	\$ 236.60
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$ 11.14	3	\$ 33.42
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	\$ 8.44	2	\$ 16.88
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	\$ 398.48	1	\$ 398.48
10	Initial Site Survey	Consultant	IS10	Subsequent Surveys	Well	\$ 113.45	2	\$ 226.90
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 5.52	24	\$ 132.48
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 7.14	24	\$ 171.36
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	\$ 1.30	24	\$ 31.20
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$ 5.56	28	\$ 155.68
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	\$ 652.34	1	\$ 652.34
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$ 17.20	28	\$ 481.60
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$ 4.01	26	\$ 104.26
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$ 17.20	26	\$ 447.20
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$ 152.06	2	\$ 304.12
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	\$ 1,059.72	1	\$ 1,059.72
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	\$ 208.73	2	\$ 417.46
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$ 56.78	3	\$ 170.34
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	\$ 209.38	2	\$ 418.76
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	\$ 8.22	2	\$ 16.44
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$ 253.50	1	\$ 253.50
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee			
21	Access Agreements		AA05	Access Agreements	Property	\$ 414.00	2	\$ 828.00
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	\$ 5,114.31		\$ -
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$ 125.09	1	\$ 125.09
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			\$ 2,087.07
35	Cap Maintenance Plan		CMP05	Cap Maintenance Plan	Plan	\$ 329.64	1	\$ 329.64
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 393.23	1	\$ 393.23

Usual and Customary Standardized Invoice #26 July 2019 - December 2019 (Interim)



RR-111a

TOTAL LAB CHARGES \$ 2,087.07 TASK 33 36 \$ 2,087.07 TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 46.29	\$	-			
AIR	A2	BETX	SAMPLE	\$ 50.94	\$	-			
AIR	A3	GRO	SAMPLE	\$ 47.48	\$	-			
AIR	A4	VOC's	SAMPLE	\$ 74.09	\$	-			
WATER	W1	GRO/PVOC	SAMPLE	\$ 30.07	\$	-			
WATER	W2	PVOC	SAMPLE	\$ 27.80	13 \$	361.40			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 45.10	\$	-			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 31.26	\$	-			
WATER	W5	VOC	SAMPLE	\$ 74.09	3 \$	222.27			
WATER	W6	PAH	SAMPLE	\$ 75.17	14 \$	1,052.38			
WATER	W7	Lead	SAMPLE	\$ 12.76	\$	-			
WATER	W8	Cadmium	SAMPLE	\$ 13.96	\$	-			
WATER	W9	Hardness	SAMPLE	\$ 12.76	\$	-			
WATER	W10	BOD, Total	SAMPLE	\$ 24.34	\$	-			
WATER	W11	Nitrate	SAMPLE	\$ 11.58	\$	-			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.88	\$	-			
WATER	W13	Ammonia	SAMPLE	\$ 17.42	\$	-			
WATER	W14	Sulfate	SAMPLE	\$ 10.50	\$	-			
WATER	W15	Iron	SAMPLE	\$ 10.50	\$	-			
WATER	W16	Manganese	SAMPLE	\$ 10.50	\$	-			
WATER	W17	Alkalinity	SAMPLE	\$ 10.50	\$	-			
WATER	W18	methane	SAMPLE	\$ 47.48	\$	-			
WATER	W19	Phosphorous	SAMPLE	\$ 18.60	\$	-			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 181.59	\$	-			
WATER	W21	EDB Method 504	SAMPLE	\$ 98.31	\$	-			
SOILS	S1	GRO	SAMPLE	\$ 25.52	\$	-	\$ 25.52		\$ -
SOILS	S2	DRO	SAMPLE	\$ 31.26	\$	-	\$ 31.26		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.98	\$	-	\$ 28.98		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 26.60	\$	-	\$ 26.60		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 50.94	\$	-	\$ 50.94		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 37.10	\$	-	\$ 37.10		\$ -
SOILS	S7	VOC	SAMPLE	\$ 74.09	\$	-	\$ 74.09		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 52.13	\$	-	\$ 52.13		\$ -
SOILS	S9	PAH	SAMPLE	\$ 75.17	6 \$	451.02	\$ 75.17		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.76	\$	-	\$ 12.76		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 15.04	\$	-			
SOILS	S12	Free Liquid	SAMPLE	\$ 11.58	\$	-			
SOILS	S13	Flash Point	SAMPLE	\$ 26.60	\$	-			
SOILS	S14	Grain Size - dry	SAMPLE	\$ 44.02	\$	-			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 59.05	\$	-			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.96	\$	-			
SOILS	S17	Permeability	SAMPLE	\$ 42.83	\$	-			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.88	\$	-			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 17.42	\$	-			
SOILS	S20	% Organic Matter	SAMPLE	\$ 30.07	\$	-			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 59.05	\$	-			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 7.03	\$	-			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 26.60	\$	-			
SOILS	S24	% Total Solids	SAMPLE	\$ 7.03	\$	-			
SOILS	S25	Field Capacity	SAMPLE	\$ 28.98	\$	-			
SOILS	S26	TCLP Lead	SAMPLE	\$ 85.65	\$	-			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 27.80	\$	-			
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 85.65	\$	-			
SOILS	S29	TCLP Benzene	SAMPLE	\$ 85.65	\$	-			
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 578.17	\$	-			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air [dyne/cm])							
TASK 33 TOTAL \$						2,087.07			

TASK 24 TOTAL \$ -