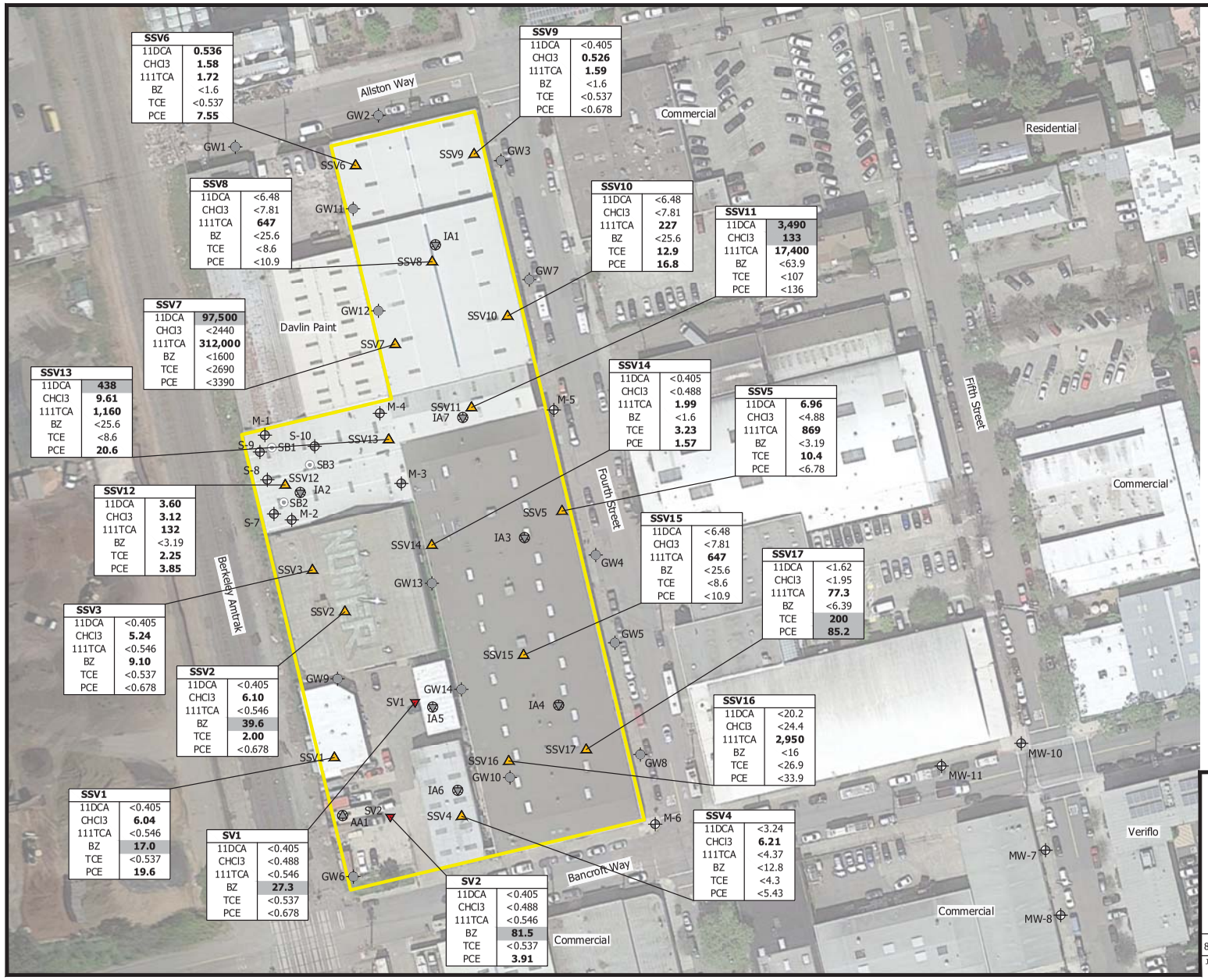


Explanation

- Approximate Property Boundary
- Groundwater Monitoring Well
- Groundwater Piezometer
- Grab Groundwater Sample
- Soil Boring
- Soil Sub-Slab Gas Sample
- 5-foot Soil Gas Sample
- Indoor Air Sample
- Ambient Air Sample

Vapor concentrations reported in micrograms per cubic meter ($\mu g/m^3$)
Detections are shown in **bold**
Results greater than the Environmental Screening Level for Commericial Properties are shaded
<6.78 = Not detected at or above the laboratory method reporting limit

Analyte	Abrev.	ESL
1,1-Dichloroethane	11DCA	256
Chloroform	CHCl3	18
1,1,1-Trichloroethane	111TCA	146,000
Benzene	BZ	14
Trichloroethene	TCE	100
Tetrachloroethene	PCE	67

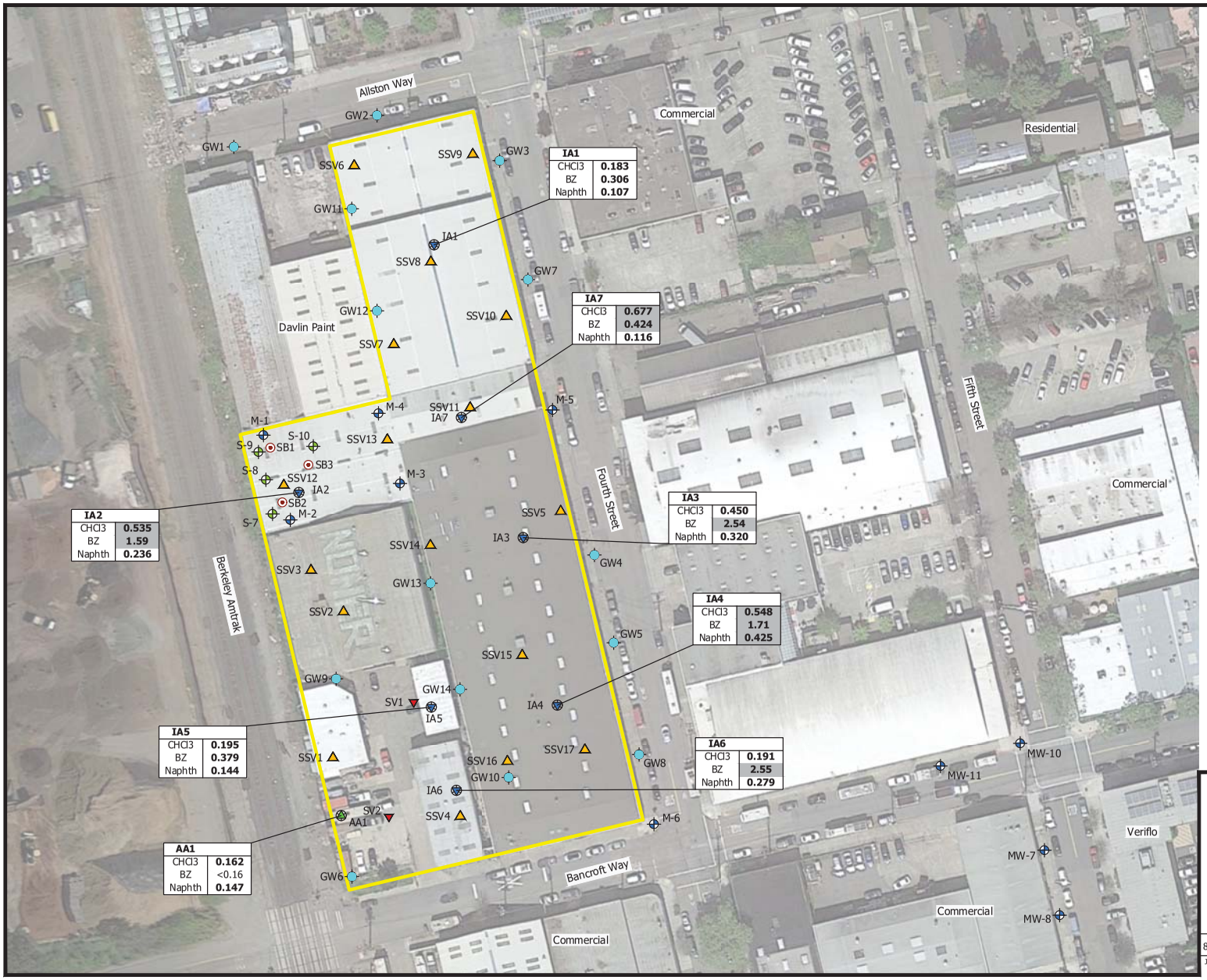
Notes:
The original version of this figure includes color-designated features. A black and white copy of the figure may not accurately represent the information originally presented.

PES Environmental, Inc.
Engineering & Environmental Services

Sub-Slab and Soil Vapor Results
Limited Phase II Investigation
Bancroft Way, Fourth Street
Berkeley, California

PLATE 3

881.108.01.017	88110801017_WBPHII_1-6	DRAFT	8/19
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Property Boundary
- Groundwater Monitoring Well
- Groundwater Piezometer
- Grab Groundwater Sample
- Soil Boring
- Soil Sub-Slab Gas Sample
- 5-foot Soil Gas Sample
- Indoor Air Sample
- Ambient Air Sample

0.183 Vapor concentrations reported in micrograms per cubic meter ($\mu g/m^3$)

<0.16 Not detected at or above the laboratory method reporting limit

0.677 Shaded results are greater than the July 2019 RWQCB Environmental Screening Level (ESL) for Commercial Properties

Analyte	Abrev.	ESL
Chloroform	CHCl3	0.53
Benzene	BZ	0.42
Naphthalene	Naphth	0.36

N

0 80

SCALE IN FEET

Notes:
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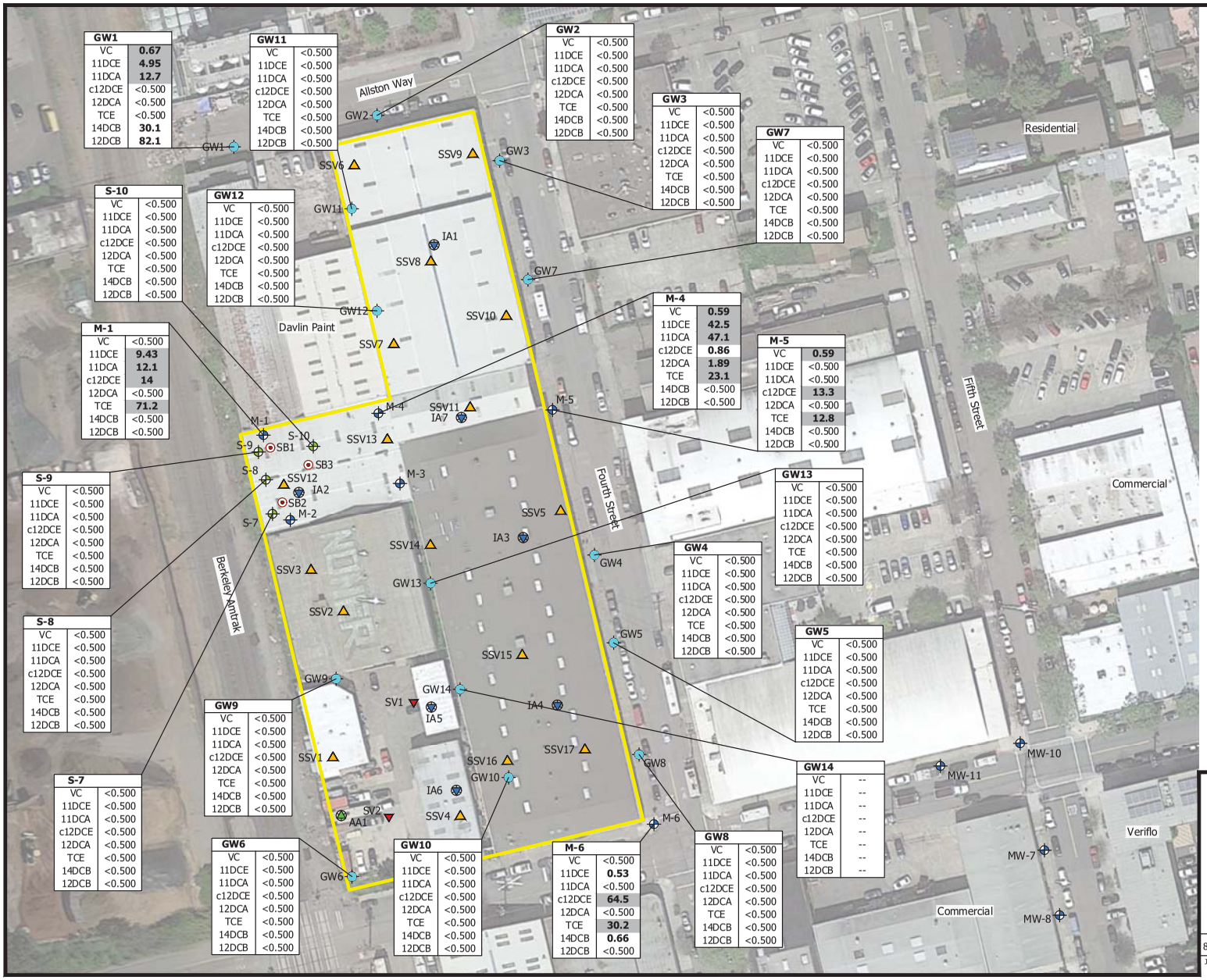
PES Environmental, Inc.
Engineering & Environmental Services

Indoor Air Results
Limited Phase II Investigation
Bancroft Way, Fourth Street
Berkeley, California

PLATE
4

881.108.01.017	88110801017_WBPHII_1-6	DRAFT	8/19
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Property Boundary
- Groundwater Monitoring Well
- Groundwater Piezometer
- Grab Groundwater Sample
- Soil Boring
- Soil Sub-Slab Gas Sample
- 5-foot Soil Gas Sample
- Indoor Air Sample
- Ambient Air Sample

Groundwater concentrations reported in micrograms per liter (µg/L)
Detections are shown in **bold**
Results greater than the Environmental Screening Level for Commericial Properties are shaded
<1.00 = Not detected at or above the laboratory method reporting limit

Analyte	Abrev.	MCL	ESL
Vinyl Chloride	VC	0.5	0.0086
1,1-Dichloroethene	11DCE	6	3.2
1,1-Dichloroethane	11DCA	5	5.0
cis-1,2-Dichloroethene	c12DCE	6	6.0
1,2-Dichloroethane	12DCA	0.5	0.50
Trichloroethene	TCE	5	1.2
1,4-Dichlorobenzene	14DCB	5	2.6
1,2-Dichlorobenzene	12DCB	100	14

N

0 80

SCALE IN FEET

Notes:
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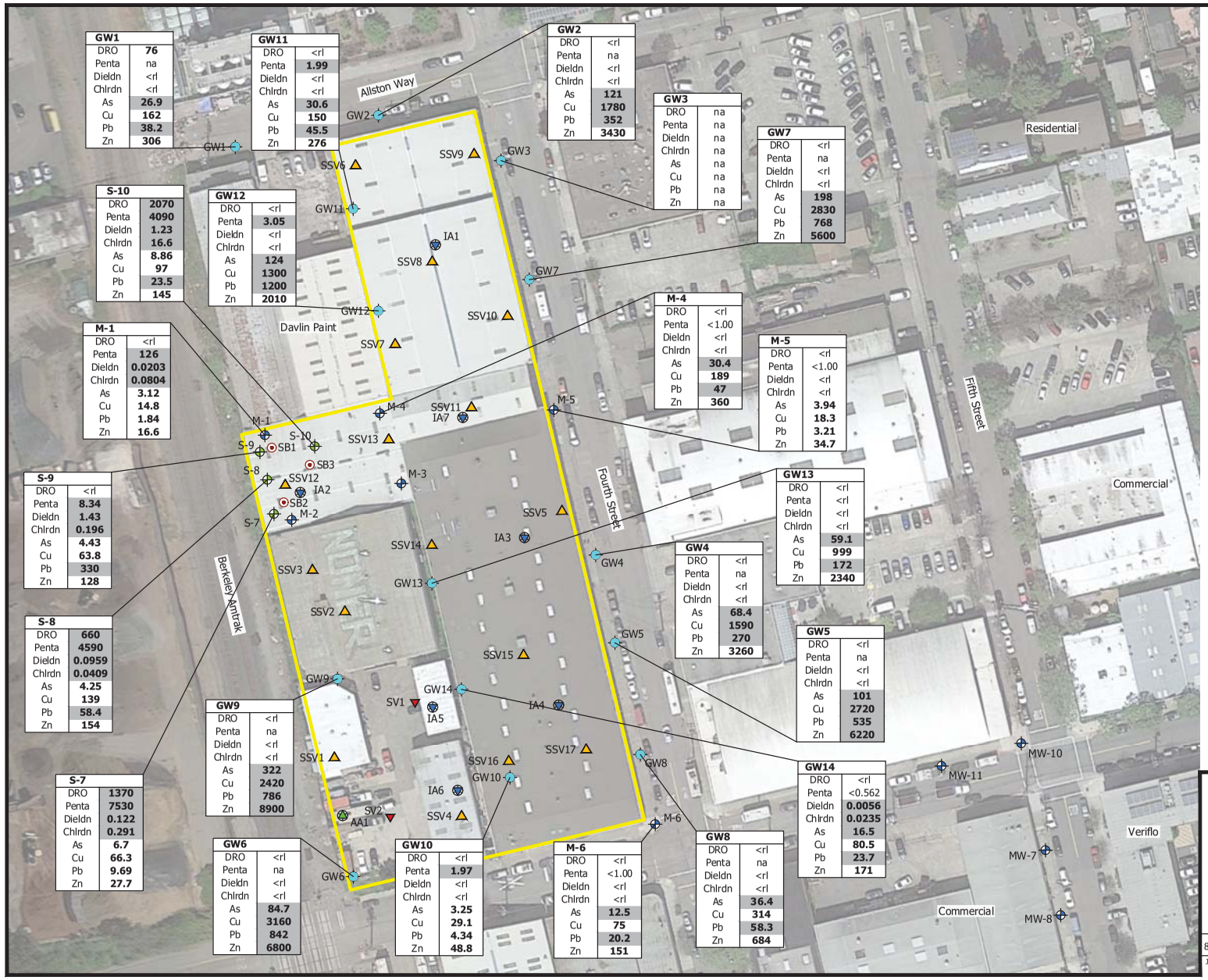
PES Environmental, Inc.
Engineering & Environmental Services

Groundwater Results - VOCs
Limited Phase II Investigation
Bancroft Way, Fourth Street
Berkeley, California

PLATE
5

881.108.01.017	88110801017_WBPHII_1-6	DRAFT	8/19
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Property Boundary
- Groundwater Monitoring Well
- Groundwater Piezometer
- Grab Groundwater Sample
- Soil Boring
- Soil Sub-Slab Gas Sample
- 5-foot Soil Gas Sample
- Indoor Air Sample
- Ambient Air Sample

Groundwater concentrations reported in micrograms per liter (µg/L)
Detections are shown in **bold**
Results greater than the Environmental Screening Level for Commericial Properties are shaded
<1.00 = Not detected at or above the laboratory method reporting limit

Analyte	Abrev.	MCL	ESL
Diesel Range Organics	DRO	199	100
Pentachlorophenol	Penta	1.0	1.0
Dieldrin	Dieldn	0.00071	0.00014
Chlordane	Chlrdn	0.10	0.013
Arsenic	As	10	10.00
Copper	Cu	1000	1000.00
Lead	Pb	15	15.00
Zinc	Zn	5000	5000.00

N

0 80

SCALE IN FEET

Notes:
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PES Environmental, Inc.
Engineering & Environmental Services

Groundwater Results - TPH, OLPs, and Metals
Limited Phase II Investigation
Bancroft Way, Fourth Street
Berkeley, California

PLATE 6

881.108.01.017	88110801017_WBPHII_1-6	DRAFT	8/19
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

DRAFT
Preliminary - Subject to Revision

Table 1a. Summary of Laboratory Analytical Results for Grab Groundwater Samples - Volatile Organic Carbons
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

PES Environmental, Inc.

	Sample Location ID		GW1	GW1-DUP	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW11-DUP	GW12	GW13	M-1	M-4	M-5	M-6	S-7	S-7-DUP	S-8	S-9	S-10	TB1	TB1_061919	TB-1	EB-1
	Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Analyte	**MCL**	**ESL - Tier 1 [1]**																												
Dichlorodifluoromethane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloromethane	188	188	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Vinyl Chloride	0.50	0.0086	**0.67**	**0.7**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.59**	**0.59**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromomethane	7.5	7.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroethane	20857	16	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichlorofluoromethane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloroethene	6.0	3.2	**4.95**	**4.99**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**9.43**	**42.5**	<0.500	**0.53**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichlorotrifluoroethane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene Chloride	5.0	5.0	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50
Trans-1,2-Dichloroethene	10	10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**1.03**	<0.500	**3.2**	**1.25**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloroethane	5.0	5.0	**12.7**	**12.6**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**12.1**	**47.1**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
cis-1,2-Dichloroethene	6.0	6.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**14**	**0.86**	**13.3**	**64.5**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
2,2-Dichloropropane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroform	80	0.81	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1-Trichloroethane	200	62	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.56**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Carbon Tetrachloride	0.50	0.061	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloropropene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Benzene	1.0	0.42	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloroethane	0.50	0.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**1.89**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichloroethene	5.0	1.2	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**71.2**	**23.1**	**12.8**	**30.2**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloropropane	5.0	2.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromomethane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	80	0.87	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
trans-1,3-Dichloropropene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Toluene	40	40	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.50**	**0.72**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
cis-1,3-Dichloropropene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2-Trichloroethane	5.0	5.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Tetrachloroethene	5.0	0.64	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3-Dichloropropane	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	80	34	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dibromoethane	0.05	0.050	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chlorobenzene	70	25	**22.8**	**22.6**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1,2-Tetrachloroethane	0.57	0.57	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	30	3.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**1.11**	**1.57**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Xylene (M+P)	20	20	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.66**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**1.63**	**1.97**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Xylene(O)	20	20	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**1.72**	<0.500	<0.500	<0.500	**2.11**	**2.85**	**1.15**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Styrene	10	10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromoform	80	80	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2,2-Tetrachloroethane	1.0	1.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromobenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,3-Trichloropropane	0.005	0.0050	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
N-Propylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
2-Chlorotoluene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Chlorotoluene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Tert-Butylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trimethylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3-Dichlorobenzene	600	65	**6.89**	**6.73**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Isopropyl Toluene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,4-Dichlorobenzene	5.0	2.6	**30.1**	**29.9**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.66**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
N-Butylbenzene	ne	ne	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichlorobenzene	100	14	**82.1**	**80.7**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dibromo-3-Chloropropane	0.20	0.028	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trichlorobenzene	5.0	5.0	**3.29**	**3.28**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Hexachlorobutadiene	0.14	0.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Naphthalene	0.17	0.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	ne	ne	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Notes
(1) - San Francisco Regional Water Quality Control Board Environmental Screening Levels - Tier 1 (RWQCB, July 2019, Rev. 2)
Green Shading = Result is greater than RWQCB Environmental Screening Level - Tier 1
MCL - State of California Maximum Contaminant Level for Drinking Water
ft bgs - Feet below ground surface/building foundation slab
ne - Screening Level is not established

TB - Trip Blank sample
DUP - Duplicate Sample
< - Not detected at or above the respective laboratory method reporting limit
µg/L - micrograms per liter (detections in **bold** font)

8/7/2019

DRAFT
Preliminary - Subject to Revision

Table 1b. Summary of Laboratory Analytical Results for Grab Groundwater Samples - Hydrocarbons, Pesticides, and Metals
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

PES Environmental, Inc.

		Sample Location ID	GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW12	GW13	GW14	M-1	M-4	M-5	M-6	S-7	S-8	S-9	S-10
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Analyte	**MCL**	**ESL - Tier 1 (1)**																						
Total Petroleum Hydrocarbons (TPH)																								
Gasoline Range Organics (C6-C10)	759	100	**0.139**	<rl	<0.050	<rl	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--	**0.238**	**0.055**	<rl	**0.054**	**1.23**	**0.079**	**0.512**	**12.6**
Heavy Range Organics (C24-C34)	409	100	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**152**	<rl	<rl	**481**	<rl	<rl	<rl	**82**	<rl	<rl	<rl
Diesel Range Organics (C12-C23)	199	100	**76**	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**1370**	**660**	<rl	**2070**
Organochlorine Pesticides (OCPs)																								
Pentachlorophenol	1.0	1.0	na	na	na	na	na	na	na	na	na	**1.97**	**1.99**	**3.05**	<rl	<0.562	**126**	<1.00	<1.00	<1.00	**7530**	**4590**	**8.34**	**4090**
a-BHC	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl
b-BHC	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl
Lindane	0.20	0.016	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0082**
Heptachlor	0.010	0.00021	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.644**
d-BHC	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0626**	<rl	<rl	**0.145**
Aldrin	0.00092	0.00014	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.14**
Heptachlor Epoxide	0.010	0.00011	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0082**	<rl	**0.14**	**0.0047**
Endosulfan I	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0105**	<rl	**0.0098**	**0.324**
4,4'-DDE	0.046	0.00059	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0049**
Dieldrin	0.00071	0.00014	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.006**	**0.0203**	<rl	<rl	<rl	**0.122**	**0.0959**	**1.43**	**1.23**
Endrin	2.0	0.0023	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0474**	**0.0386**	<rl	**0.0575**
4,4'-DDD	0.031	0.00084	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0076**	<rl	<rl	**0.0401**
Endosulfan II	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl
4,4'-DDT	0.23	0.00059	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0432**
Endrin Aldehyde	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0117**	<rl	<rl
Endosulfan Sulfate	ne	ne	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.0074**
Methoxychlor	30	0.0030	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl
Chlordane	0.10	0.013	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.024**	**0.0804**	<rl	<rl	<rl	**0.291**	**0.0409**	**0.196**	**16.6**
Toxaphene	3.0	0.00020	<rl	<rl	na	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	<rl	**0.312**
Metals																								
Arsenic	10	10.00	**26.9**	**121**	na	**68.4**	**101**	**84.7**	**198**	**36.4**	**322**	**3.25**	**30.6**	**124**	**59.1**	**16.5**	**3.12**	**30.4**	**3.94**	**12.5**	**6.7**	**4.25**	**4.43**	**8.86**
Copper	1000	1000.00	**162**	**1780**	na	**1590**	**2720**	**3160**	**2830**	**314**	**2420**	**29.1**	**150**	**1300**	**999**	**80.5**	**14.8**	**189**	**18.3**	**75**	**66.3**	**139**	**63.8**	**97**
Lead	15	15.00	**38.2**	**352**	na	**270**	**535**	**842**	**768**	**58.3**	**786**	**4.34**	**45.5**	**1200**	**172**	**23.7**	**1.84**	**47**	**3.21**	**20.2**	**9.69**	**58.4**	**330**	**23.5**
Zinc	5000	5000.00	**306**	**3430**	na	**3260**	**6220**	**6800**	**5600**	**684**	**8900**	**48.8**	**276**	**2010**	**2340**	**171**	**16.6**	**360**	**34.7**	**151**	**27.7**	**154**	**128**	**145**

Notes

(1) - San Francisco Regional Water Quality Control Board Environmental Screening Levels - Tier 1 (RWQCB, July 2019, Rev. 2)

Green Shading = Result is greater than RWQCB Environmental Screening Level - Tier 1

MCL - State of California Maximum Contaminant Level for Drinking Water

ft bgs - Feet below ground surface/building foundation slab

ne - Screening Level is not established

na - Not analyzed

TB - Trip Blank sample

DUP - Duplicate Sample

< - Not detected at or above the respective laboratory method reporting limit

µg/L - micrograms per liter (detections in **bold** font)

Table 2. Summary of Laboratory Analytical Results for Sub-Slab and Soil Vapor Samples
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

	Screening Levels[1]		Sample Locations and Concentrations (ug/m^3)																				
Analyte	ESL-R	ESL-C	SV1	SV2	SSV1	SSV2	SSV3	SSV4	SSV4-DUP	SSV5	SSV5-DUP	SSV6	SSV7	SSV8	SSV9	SSV10	SSV11	SSV12	SSV13	SSV14	SSV15	SSV16	SSV17
Dichlorodifluoromethane	ne	ne	**6.10**	**1.51**	**3.49**	**3.53**	**3.26**	**14.8**	**1.92**	<4.95	<4.95	**4.02**	<2470	<7.91	**4.48**	<7.91	<98.9	**5.05**	<7.91	**4.42**	<7.91	<24.7	**7.3**
Dichlorotetrafluoroethane	ne	ne	<0.699	<0.699	<0.699	<0.699	<0.699	<5.59	<5.59	<6.99	<6.99	<0.699	<3500	<11.2	<0.699	<11.2	<140	<1.4	<11.2	<0.699	<11.2	<35	<2.8
Chloromethane	ne	ne	**1.67**	<0.207	<0.207	<0.207	<0.207	<1.65	**1.13**	<2.07	<2.07	**0.609**	<1030	<3.3	**0.414**	<3.3	<41.3	**6.60**	<3.3	**1.10**	<3.3	<10.3	**1.81**
Vinyl Chloride	0.32	5.2	**0.130**	**1.39**	<0.0895	**1.10**	<0.0895	<0.716	**1.61**	<2.56	<2.56	**0.140**	<1280	**2.14**	**0.437**	**2.49**	<51.1	**0.480**	**2.50**	<0.0895	**2.39**	<12.8	**1.50**
Bromomethane	ne	ne	**0.444**	<0.388	<0.388	<0.388	<0.388	<3.11	<3.11	<3.88	<3.88	<0.388	<1940	<6.21	<0.388	<6.21	<77.7	<0.777	<6.21	<0.388	<6.21	<19.4	<1.55
Chloroethane	ne	ne	**0.461**	**3.28**	<0.264	<0.264	<0.264	<2.11	**1.10**	<2.64	<2.64	<0.264	<1320	<4.22	<0.264	<4.22	<52.8	**0.646**	<4.22	<0.264	<4.22	<13.2	<1.06
Trichlorofluoromethane	ne	ne	**1.48**	**2.78**	**1.78**	<1.12	**2.16**	**171**	**191**	<5.62	<5.62	**2.91**	<2810	<18	**1.77**	<18	<112	<2.25	<18	**1.78**	<18	<28.1	<4.5
1,1-Dichloroethene	ne	ne	<0.397	<0.397	<0.397	<0.397	<0.397	<3.17	<3.17	**36.4**	**38.5**	<0.397	**3010**	<6.34	<0.397	<6.34	**172**	<0.793	**7.95**	<0.397	<6.34	<19.8	<1.59
Trichlorotrifluoroethane	ne	ne	<3.83	<3.83	<3.83	<3.83	<3.83	<30.7	<30.7	<7.66	<7.66	<3.83	<3830	<61.3	<3.83	<61.3	<153	<7.66	<61.3	<3.83	<61.3	<38.3	<15.3
Methylene Chloride	34	409	**14.8**	**18.1**	<10.4	**11.4**	<10.4	<83.4	<83.4	<3.47	<3.47	<10.4	<1740	<167	<10.4	<167	<69.5	<20.8	<167	<10.4	<167	<17.4	<41.7
trans-1,2-Dichloroethene	ne	ne	<0.396	<0.396	<0.396	<0.396	<0.396	<3.17	<3.17	<3.96	<3.96	<0.396	<1980	<6.34	<0.396	<6.34	<79.3	<0.793	<6.34	<0.396	<6.34	<19.8	**4.92**
Benzene	3.2	14	**27.3**	**81.5**	**17.0**	**39.6**	**9.10**	<12.8	**5.89**	<3.19	<3.19	<1.6	<1600	<25.6	<1.6	<25.6	<63.9	<3.19	<25.6	<1.6	<25.6	<16	<6.39
cis-1,2-Dichloroethene	ne	ne	<0.397	<0.397	<0.397	<0.397	<0.397	<3.17	<3.17	<3.97	<3.97	<0.397	<1980	<6.34	<0.397	<6.34	<79.3	<0.793	<6.34	<0.397	<6.34	<19.8	<1.59
1,1,2,2-Tetrachloroethane	1.6	7.0	<0.687	<0.687	<0.687	<0.687	<0.687	<5.49	<5.49	<6.87	<6.87	<0.687	<3430	<11	<0.687	<11	<137	<1.37	<11	<0.687	<11	<34.3	<2.75
1,1-Dichloroethane	58	256	<0.405	<0.405	<0.405	<0.405	<0.405	<3.24	<3.24	**6.96**	**5.59**	**0.536**	**97,500**	<6.48	<0.405	<6.48	**3,490**	**3.60**	**438**	<0.405	<6.48	<20.2	<1.62
Chloroform	4.1	18	<0.488	<0.488	**6.04**	**6.10**	**5.24**	**6.21**	**5.65**	<4.88	<4.88	**1.58**	<2440	<7.81	**0.526**	<7.81	**133**	**3.12**	**9.61**	<0.488	<7.81	<24.4	<1.95
1,1,1-Trichloroethane	34,762	146,000	<0.546	<0.546	<0.546	<0.546	<0.546	<4.37	<4.37	**869**	**795**	**1.72**	**312,000**	**647**	**1.59**	**227**	**17,400**	**132**	**1,160**	**1.99**	**647**	**2,950**	**77.3**
1,2-Dichloroethane	3.6	16	<0.405	<0.405	<0.405	<0.405	<0.405	<3.24	<3.24	<4.05	<4.05	<0.405	<2020	<6.48	<0.405	<6.48	<80.9	<0.809	<6.48	<0.405	<6.48	<20.2	<1.62
1,2-Dichloropropane	9.4	41	<0.462	<0.462	<0.462	<0.462	<0.462	<3.7	<3.7	<4.62	<4.62	<0.462	<2310	<7.39	<0.462	<7.39	<92.4	<0.924	<7.39	<0.462	<7.39	<23.1	<1.85
Trichloroethene	16	100	<0.537	<0.537	<0.537	**2.00**	<0.537	<4.3	<4.3	**10.4**	**9.78**	<0.537	<2690	<8.6	<0.537	**12.9**	<107	**2.25**	<8.6	**3.23**	<8.6	<26.9	**200**
cis-1,3-Dichloropropene	ne	ne	<0.454	<0.454	<0.454	<0.454	<0.454	<3.63	<3.63	<4.54	<4.54	<0.454	<2270	<7.26	<0.454	<7.26	<90.8	<0.908	<7.26	<0.454	<7.26	<22.7	<1.82
trans-1,3-Dichloropropene	ne	ne	<0.454	<0.454	<0.454	<0.454	<0.454	<3.63	<3.63	<4.54	<4.54	<0.454	<2270	<7.26	<0.454	<7.26	<90.8	<0.908	<7.26	<0.454	<7.26	<22.7	<1.82
Toluene	ne	ne	**28.1**	**49.4**	**48.2**	**116**	**42.3**	**61.1**	**42.4**	**5.16**	**5.05**	**2.32**	<1880	<30.1	**5.55**	**725**	<75.4	**4.67**	<30.1	<1.88	<30.1	<18.8	<7.54
1,1,2-Trichloroethane	5.8	26	<0.546	<0.546	<0.546	<0.546	<0.546	<4.37	<4.37	<5.46	<5.46	<0.546	<2730	<8.73	<0.546	<8.73	<109	<1.09	<8.73	<0.546	<8.73	<27.3	<2.18
1,2-Dibromoethane (EDB)	0.16	0.68	<0.768	<0.768	<0.768	<0.768	<0.768	<6.15	<6.15	<7.68	<7.68	<0.768	<3840	<12.3	<0.768	<12.3	<154	<1.54	<12.3	<0.768	<12.3	<38.4	<3.07
Tetrachloroethene	15	67	<0.678	**3.91**	**19.6**	<0.678	<0.678	<5.43	**2.37**	<6.78	**6.78**	**7.55**	<3390	<10.9	<0.678	**16.8**	<136	**3.85**	**20.6**	**1.57**	<10.9	<33.9	**85.2**
Chlorobenzene	ne	ne	<0.46	<0.46	<0.46	<0.46	<0.46	<3.68	<3.68	<4.6	<4.6	<0.46	<2300	<7.37	<0.46	<7.37	<92.1	<0.921	<7.37	<0.46	<7.37	<23	<1.84
Ethylbenzene	37	164	**7.32**	**22.4**	**10.9**	**26.1**	**10.1**	**11.4**	**17.2**	**5.51**	**5.56**	**0.473**	<2170	<6.95	<0.434	<6.95	<86.8	<0.868	<6.95	**0.666**	<6.95	<21.7	<1.74
Xylene (M+P)	ne	ne	**16.0**	**29.5**	**37.2**	**77.1**	**33.2**	**39.8**	**49.3**	**28.6**	**29.3**	**2.11**	<4340	<13.9	**1.22**	<13.9	<174	**1.94**	**19.5**	**3.56**	<13.9	<43.4	<.3.47
Styrene	ne	ne	**0.601**	**1.68**	<0.426	**0.738**	<0.426	<3.41	<3.41	<4.26	<4.26	<0.426	<2130	<6.81	<0.426	<6.81	<85.2	<0.852	<6.81	<0.426	<6.81	<21.3	<1.7
Xylene (O)	ne	ne	**6.09**	**13.6**	**11.3**	**25.2**	**9.69**	**11.6**	**11.9**	**12.3**	**12.0**	**0.668**	<2170	<6.95	**0.526**	<6.95	<86.8	<0.868	**9.74**	**1.48**	<6.95	<21.7	<1.74
Naphthalene	2.8	12	<0.786	**2.95**	**1.25**	**1.92**	**1.08**	<6.29	<6.29	<5.24	<5.24	**1.31**	<2620	<12.6	**1.74**	<12.6	<105	**1.70**	<12.6	**0.819**	<12.6	<26.2	**4.07**
1,3,5-Trimethylbenzene	ne	ne	**6.10**	**12.4**	**5.02**	**10.4**	**10.8**	**4.18**	**10.9**	**75.6**	**72.7**	<0.492	<2460	<7.87	<0.492	<7.87	<98.3	**1.58**	<7.87	**0.843**	<7.87	<24.6	<1.97
1,2,4-Trimethylbenzene	ne	ne	**13.3**	**39.1**	**12.9**	**20.6**	**16.6**	**11.6**	**16.3**	**90.2**	**83.3**	**1.24**	<2460	<7.87	**1.22**	<7.87	<98.3	**3.78**	**13.9**	**2.32**	<7.87	<24.6	<1.97
1,3-Dichlorobenzene	ne	ne	<0.601	<0.601	<0.601	<0.601	<0.601	<4.81	<4.81	<6.01	<6.01	<0.601	<3010	<9.62	<0.601	<9.62	<120	<1.2	<9.62	<0.601	<9.62	<30.1	<2.41
1,4-Dichlorobenzene	8.5	37	<0.601	<0.601	<0.601	<0.601	<0.601	<4.81	<4.81	<6.01	<6.01	<0.601	<3010	<9.62	**0.938**	<9.62	<120	<1.2	<9.62	<0.601	<9.62	<30.1	<2.41
1,2-Dichlorobenzene	ne	ne	<0.601	<0.601	<0.601	<0.601	<0.601	<4.81	<4.81	<6.01	<6.01	<0.601	<3010	<9.62	<0.601	<9.62	<120	<1.2	<9.62	<0.601	<9.62	<30.1	<2.41
1,2,4-Trichlorobenzene	ne	ne	<0.742	<0.742	<0.742	<0.742	<0.742	<5.94	<5.94	<7.42	<7.42	<0.742	<3710	<11.9	<0.742	<11.9	<148	<1.48	<11.9	<0.742	<11.9	<37.1	<2.97
Hexachlorobutadiene	4.3	19	<1.07	<1.07	<1.07	<1.07	<1.07	<8.53	<8.53	<10.7	<10.7	<1.07	<5330	<17.1	<1.07	<17.1	<213	<2.13	<17.1	<1.07	<17.1	<53.3	<4.27
Carbon Tetrachloride	15.6	68.1	<0.629	<0.629	<0.629	<0.629	<0.629	<5.03	<5.03	<6.29	<6.29	<0.629	<3150	<10.1	<0.629	<10.1	<126	<1.26	<10.1	<0.629	<10.1	<31.5	<2.52
1,1-DFA (Leak Check Analyte)	ne	ne	<10	**73.4**	<10	**183**	<10	<10	**316**	<10	**1330**	<10	<10	<10	**23.4**	<10	**24.9**	<10	<10	**12.8**	<10	<10	<10

Notes

(1) - San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels for Residential (ESL-R) and Commercial (ESL-C) Properties, (RWQCB, July 2019, Rev. 2)

ne - Screening Level is not established

DUP - Duplicate Sample

SV# - Soil Vapor Sample Location (collected from 4.5 to 5.5 feet below ground surface)

SSV# - Sub-Slab Vapor Sample Location (collected beneath the concrete slab)

Green Shading = Result is greater than RWQCB Environmental Screening Level for Commercial Properties

< - Not detected at or above the respective laboratory method reporting limit

Results reported in micrograms per cubic meter (µg/m^3); detections in **bold** font

1,1-Difluoroethane (1,1-DFA) utilized as leak check compound

Table 3. Summary of Laboratory Analytical Results for Indoor Air Samples
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

	Screening Levels[1]		Sample Locations and Concentrations (ug/m^3)							
Analyte	ESL-R	ESL-C	IA1	IA2	IA3	IA4	IA5	IA6	IA7	AA1
Dichlorodifluoromethane	ne	ne	**3.54**	**3.08**	**3.53**	**3.24**	**3.3**	**3.27**	**3.22**	**3.66**
Chloromethane	ne	ne	**1.20**	**1.13**	**1.45**	**1.23**	**1.38**	**1.27**	**1.38**	**1.38**
Dichlorotetrafluoroethane	ne	ne	**0.147**	**0.137**	**0.135**	**0.134**	**0.133**	**0.142**	**0.144**	**0.151**
Vinyl Chloride	0.00945	0.157	<0.00895	<0.00895	<0.00895	<0.00895	<0.00895	<0.00895	<0.00895	**0.0125**
Bromomethane	ne	ne	<0.0388	<0.0388	**0.123**	<0.0388	**0.125**	<0.0388	<0.0388	**0.115**
Chloroethane	ne	ne	**0.048**	<0.0264	**0.0726**	**0.113**	**0.137**	**0.0622**	**0.0776**	**0.0634**
Trichlorofluoromethane	ne	ne	**1.48**	**1.52**	**1.39**	**1.45**	**1.34**	**1.42**	**1.47**	**1.42**
1,1-Dichloroethene	ne	ne	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397
Trichlorotrifluoroethane	ne	ne	**0.459**	**0.444**	**0.428**	**0.479**	**0.475**	**0.464**	**0.478**	**0.474**
Methylene Chloride	1.01	12.3	**1.19**	**2.01**	**1.73**	**1.76**	**1.11**	**10.2**	**1.20**	<1.04
trans-1,2-Dichloroethene	ne	ne	<0.0396	<0.0396	<0.0396	<0.0396	<0.0396	<0.0396	<0.0396	<0.0396
1,1-Dichloroethane	1.75	7.67	<0.0405	**0.134**	**0.125**	**0.128**	<0.0405	<0.0405	**0.118**	<0.0405
cis-1,2-Dichloroethene	ne	ne	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397	<0.0397
Chloroform	0.122	0.533	**0.183**	**0.535**	**0.450**	**0.548**	**0.195**	**0.191**	**0.677**	**0.162**
1,1,1-Trichloroethane	ne	4380	**0.106**	**0.357**	**0.368**	**0.366**	<0.0546	<0.0546	**0.279**	<0.0546
1,2-Dichloroethane	0.108	0.472	**0.0894**	**0.162**	**0.168**	**0.163**	**0.0807**	**0.0897**	**0.111**	**0.0833**
Benzene	0.097	0.423	**0.306**	**1.59**	**2.54**	**1.71**	**0.379**	**2.55**	**0.424**	<0.16
Carbon Tetrachloride	0.468	2.04	**0.449**	**0.43**	**0.438**	**0.345**	**0.165**	**0.454**	**0.283**	**0.445**
1,2-Dichloropropane	0.281	1.23	<0.0462	<0.0462	<0.0462	<0.0462	<0.0462	<0.0462	<0.0462	<0.0462
Trichloroethene	0.478	2.99	<0.0537	**0.179**	**0.0587**	**0.0669**	<0.0537	<0.0537	<0.0537	<0.0537
cis-1,3-Dichloropropene	ne	ne	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454
trans-1,3-Dichloropropene	ne	ne	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454	<0.0454
Toluene	ne	ne	**1.30**	**8.42**	**9.93**	**7.59**	**6.04**	**9.41**	**2.16**	**0.271**
1,1,2-Trichloroethane	0.175	0.767	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546
1,2-Dibromoethane	0.00468	0.0204	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768
Tetrachloroethene	0.460	2.01	<0.0678	<0.0678	<0.0678	<0.0678	<0.0678	**0.274**	<0.0678	<0.0678
Chlorobenzene	ne	ne	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Ethylbenzene	1.12	4.91	**0.257**	**1.93**	**1.89**	**1.44**	**0.547**	**2.32**	**0.452**	<0.0434
Xylene (M+P)	ne	ne	**0.88**	**6.86**	**7.05**	**5.34**	**1.51**	**8.82**	**1.58**	**0.141**
Styrene	ne	ne	**0.111**	**0.361**	**0.219**	**0.277**	**0.0862**	**0.191**	**0.137**	<0.0426
Xylene (O)	ne	ne	**0.378**	**2.32**	**2.41**	**1.89**	**0.69**	**3.39**	**0.574**	**0.0558**
1,1,2,2-Tetrachloroethane	0.0484	0.211	<0.0687	<0.0687	<0.0687	<0.0687	<0.0687	<0.0687	<0.0687	<0.0687
1,3,5-Trimethylbenzene	ne	ne	**0.129**	**0.674**	**0.707**	**0.620**	**0.494**	**1.06**	**0.211**	<0.0492
1,2,4-Trimethylbenzene	ne	ne	**0.373**	**2.17**	**2.32**	**2.09**	**1.84**	**4.26**	**0.629**	<0.0492
1,3-Dichlorobenzene	ne	ne	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601
1,4-Dichlorobenzene	0.255	1.11	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601
1,2-Dichlorobenzene	ne	ne	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601	<0.0601
1,2,4-Trichlorobenzene	ne	ne	<0.0742	<0.0742	<0.0742	<0.0742	<0.0742	<0.0742	<0.0742	<0.0742
Hexachlorobutadiene	0.128	0.557	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107
Naphthalene	0.0826	0.361	**0.107**	**0.236**	**0.320**	**0.425**	**0.144**	**0.279**	**0.116**	**0.147**

Notes
(1) - San Francisco Regional Water Quality Control Board Environmental Screening Levels for Residential (ESL-R) and Commercial (ESL-C) Properties, (RWQCB, July 2019, Rev. 2)
ne - Screening Level is not established
Green Shading = Result is greater than Environmental Screening Level for Commercial Properties
< - Not detected at or above the respective laboratory method reporting limit
Results reported in micrograms per cubic meter (µg/m^3); detections in **bold** font
Sample Location "AA" is an ambient air sampling location collected from the roof top (upwind side of building)

Table 4a. Summary of Laboratory Analytical Results for Soil Samples - Volatile Organic Compounds
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

		Sample Location ID	SB-1	SB-2	SB-3
		Sample Depth (ft bgs)	9.5	9.5	5.0
		Sample Date	7/20/2019	7/20/2019	7/20/2019
Analyte	ESL-Leach[(1)]	ESL-Tier 1[(2)]			
Dichlorodifluoromethane	ne	ne	<1.87	<1.81	<1.73
Chloromethane	10656	10656	<1.87	<1.81	<1.73
Vinyl Chloride	1.51	1.51	<1.87	<1.81	<1.73
Bromomethane	360	360	<1.87	<1.81	<1.73
Chloroethane	1151	1151	<1.87	<1.81	<1.73
Trichlorofluoromethane	ne	ne	<1.87	<1.81	<1.73
1,1-Dichloroethene	535	535	<1.87	<1.81	<1.73
Trichlorotrifluoroethane	ne	ne	<1.87	<1.81	<1.73
Methylene Chloride	119	119	<9.33	<9.05	<8.65
Trans-1,2-Dichloroethene	649	649	<1.87	<1.81	<1.73
1,1-Dichloroethane	201	201	<1.87	<1.81	<1.73
cis-1,2-Dichloroethene	192	192	<1.87	<1.81	<1.73
2,2-Dichloropropane	ne	ne	<1.87	<1.81	<1.73
Bromochloromethane	ne	ne	<1.87	<1.81	<1.73
Chloroform	23	23	<1.87	<1.81	<1.73
1,1,1-Trichloroethane	7036	7036	<1.87	<1.81	<1.73
Carbon Tetrachloride	76	76	<1.87	<1.81	<1.73
1,1-Dichloropropene	ne	ne	<1.87	<1.81	<1.73
Benzene	25	25	<1.87	<1.81	<1.73
1,2-Dichloroethane	6.96	6.96	<1.87	<1.81	<1.73
Trichloroethene	85	85	<1.87	<1.81	<1.73
1,2-Dichloropropane	65	65	<1.87	<1.81	<1.73
Dibromomethane	ne	ne	<1.87	<1.81	<1.73
Bromodichloromethane	16	16	<1.87	<1.81	<1.73
trans-1,3-Dichloropropene	ne	ne	<1.87	<1.81	<1.73
Toluene	3165	3165	<1.87	<1.81	<1.73
cis-1,3-Dichloropropene	ne	ne	<1.87	<1.81	<1.73
1,1,2-Trichloroethane	76	76	<1.87	<1.81	<1.73
Tetrachloroethene	80	80	<1.87	<1.81	<1.73
1,3-Dichloropropane	ne	ne	<1.87	<1.81	<1.73
Dibromochloromethane	346	346	<1.87	<1.81	<1.73
1,2-Dibromoethane	0.53	0.53	<1.87	<1.81	<1.73
Chlorobenzene	1437	1437	<1.87	<1.81	<1.73
1,1,1,2-Tetrachloroethane	17	17	<1.87	<1.81	<1.73
Ethylbenzene	434	434	<1.87	<1.81	<1.73
Xylene (M+P)	2081	2081	<1.87	<1.81	<1.73
Xylene(O)	2081	2081	<1.87	<1.81	<1.73
Styrene	918	918	<1.87	<1.81	<1.73
Bromoform	692	692	<1.87	<1.81	<1.73
Isopropylbenzene	ne	ne	<1.87	<1.81	<1.73
1,1,2,2-Tetrachloroethane	18	18	<1.87	<1.81	<1.73
Bromobenzene	ne	ne	<1.87	<1.81	<1.73
1,2,3-Trichloropropane	0.11	0.11	<1.87	<1.81	<1.73
N-Propylbenzene	ne	ne	<1.87	<1.81	<1.73
2-Chlorotoluene	ne	ne	<1.87	<1.81	<1.73
1,3,5-Trimethylbenzene	ne	ne	<1.87	<1.81	<1.73
4-Chlorotoluene	ne	ne	<1.87	<1.81	<1.73
Tert-Butylbenzene	ne	ne	<1.87	<1.81	<1.73
1,2,4-Trimethylbenzene	ne	ne	<1.87	<1.81	<1.73
sec-Butylbenzene	ne	ne	**1.91**	**5.18**	<1.73
1,3-Dichlorobenzene	7401	6000	<1.87	<1.81	<1.73
4-Isopropyl Toluene	ne	ne	<1.87	<1.81	<1.73
1,4-Dichlorobenzene	201	201	<1.87	<1.81	<1.73
N-Butylbenzene	ne	ne	<1.87	<1.81	<1.73
1,2-Dichlorobenzene	1049	1049	<1.87	<1.81	<1.73
1,2-Dibromo-3-Chloropropane	0.59	0.59	<1.87	<1.81	<1.73
1,2,4-Trichlorobenzene	1206	1206	<3.73	<3.62	<3.46
Hexachlorobutadiene	28	28	<3.73	<3.62	<3.46
Naphthalene	42	42	<3.73	**4.00**	<3.46
1,2,3-Trichlorobenzene	ne	ne	<3.73	<3.62	<3.46

Notes

(1) - San Francisco Regional Water Quality Control Board Environmental Screening Levels - Leaching to Groundwater (ESL-Leach) Tier 1, (RWQCB, July 2019, Rev. 2)

ne - Screening Level is not established

Green Shading = Result is greater than Environmental Screening Levels (Tier 1)

< - Not detected at or above the respective laboratory method reporting limit

Ambient Air Sample Locations: AA, AA2, and AA3

Results reported in micrograms per cubic meter ($\mu g/m^3$); detections in **bold** font

Sample Location "AA" is an ambient air sampling location collected from the roof top (upwind side of building)

Table 4b. Summary of Laboratory Analytical Results for Soil Samples - Hydrocarbons and Pesticides
West Block (701-705, 747 Bancroft Way; 2200-2220 Fourth Street)
Berkeley, California

		Sample Location ID	SB-1	SB-2	SB-3
		Sample Depth (ft bgs)	9.5	9.5	5.0
		Sample Date	7/20/2019	7/20/2019	7/20/2019
Analyte	ESL-Leach[(1)]	ESL-Tier 1[(2)]			
Total Petroleum Hydrocarbons (TPH)					
Gasoline Range Organics (C6-C10)	17	17	**2.070**	<1.00	<1.00
Diesel Range Organics (C12-C23)	2081	2081	--	**185**	<10.0
Heavy Range Organics (C24-C34)	434	434	--	<10.0	<10.0
Organochlorine Pesticides (OCPs)					
a-BHC	ne	ne	<2.00	<2.00	<2.00
b-BHC	ne	ne	<2.00	<2.00	<2.00
Lindane	7.44	7.44	<2.00	<2.00	<2.00
Heptachlor	44298	120	<2.00	<2.00	<2.00
d-BHC	ne	ne	<2.00	<2.00	<2.00
Aldrin	8366	2.4	<2.00	<2.00	<2.00
Heptachlor Epoxide	0.18	0.18	<2.00	<2.00	<2.00
Endosulfan I	ne	ne	<2.00	<2.00	<2.00
4,4'-DDE	28804	330	<2.00	<2.00	<2.00
Dieldrin	0.46	0.46	**6.81**	**2.95**	<2.00
Endrin	7.64	1.10	**3.4**	<2.00	<2.00
4,4'-DDD	64809	2671	<2.00	<2.00	<2.00
Endosulfan II	ne	ne	<2.00	<2.00	<2.00
4,4'-DDT	5611	1.1	<2.00	<2.00	<2.00
Endrin Aldehyde	ne	ne	<2.00	<2.00	<2.00
Endosulfan Sulfate	ne	ne	<2.00	<2.00	<2.00
Endrin Ketone	ne	ne	<2.00	<2.00	<2.00
Methoxychlor	13	13	<2.00	<2.00	<2.00
Chlordane	22854	8.5	**44**	**17.1**	<2.00
Toxaphene	254155	508	<12.5	<12.5	<12.5
Pentachlorophenol	0.10	0.013	**369**	**53.2**	<50.0

Notes

(1) - San Francisco Regional Water Quality Control Board Environmental Screening Levels - Leaching to Groundwater (ESL-Leach Tier 1, (RWQCB, July 2019, Rev. 2)

ne - Screening Level is not established

Green Shading = Result is greater than Environmental Screening Levels (Tier 1)

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Ambient Air Sample Locations: AA, AA2, and AA3

Results reported in micrograms per cubic meter ($\mu g/m^3$); detections in **bold** font

Sample Location "AA" is an ambient air sampling location collected from the roof top (upwind side of building)

HALEY ALDRICH

www.haleyaldrich.com

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT
WEST BERKELEY PROJECT
BERKELEY, CALIFORNIA

by
Haley & Aldrich, Inc.
Walnut Creek, California

for
SteelWave, LLC
San Francisco, California

DRAFT

File No. 134361-003
January 2020

Haley & Aldrich, Inc.
2033 N. Main Street
Suite 309
Walnut Creek, CA 94596
925.949.1012

3 January 2020
File No. 134361-003

SteelWave, LLC
101 California Street, Suite 800
San Francisco, California 94111

Attention: Mr. Steve Dunn

Subject: Limited Phase II Environmental Investigation Report
West Berkeley Project
Berkeley, California

Dear Mr. Dunn:

Haley & Aldrich, Inc., (Haley & Aldrich) is pleased to present Limited Phase II Environmental Investigation Report for the West Berkeley Project site located on two contiguous city blocks in Berkeley, California. This investigation was performed as per our Proposal for Limited Phase II Site Investigation, West Berkeley Project, Berkeley, California, dated 22 November 2019.

Please feel free to contact us if you have any questions.

Sincerely yours,
HALEY & ALDRICH, INC.

DRAFT

Adam Piestrzeniewicz, P.G. #9669 (CA)
Senior Geologist

Jason Grant, P.E. #64624 (CA)
Senior Project Manager

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Haley & Aldrich, Inc.
2033 N. Main Street
Suite 309
Walnut Creek, CA 94596
925.949.1012

SIGNATURE PAGE FOR

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT
WEST BERKELEY PROJECT
BERKELEY, CALIFORNIA

PREPARED FOR
STEELWAVE, LLC
SAN FRANCISCO, CALIFORNIA 94111

PREPARED BY:

Adam Piestrzeniewicz, P.G. #9669 (CA)
Senior Geologist
Haley & Aldrich, Inc.

REVIEWED AND APPROVED BY:

Jason Grant, P.E. #64624 (CA)
Senior Project Manager
Haley & Aldrich, Inc.

DRAFT

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1. Introduction

Haley & Aldrich, Inc., (Haley & Aldrich) performed a Limited Phase II Environmental Investigation at the property located on two contiguous city blocks in Berkeley, California, that are generally bounded by Allston Way to the north, Fifth Street to the east, Bancroft Way to the south, and the Union Pacific and Amtrak Railroad corridor to the west (Site; Figure 1). This investigation was performed on behalf SteelWave, LLC (SteelWave) as per our Proposal for Limited Phase II Site Investigation, West Berkeley Project, Berkeley, California, dated 22 November 2019. The purpose of this investigation was to:

- Provide soil characterization data to evaluate whether adverse environmental conditions may exist that could affect the Site's potential redevelopment plans; and
- Provide soil characterization data for planning the proper handling and disposal of soil encountered during potential construction activities.

1.1 PROJECT BACKGROUND

The Site is approximately 5.5 acres in a commercial and industrial use area. Adjacent sites include similar commercial and industrial properties as well as the Union Pacific and Amtrak Railroad corridor located immediately west of the Site. The Site consists of several large warehouse buildings, smaller warehouses, a single-family residential building, and parking lots, all located on two contiguous city blocks (referred to as the "West Block" and "East Block"; Figure 2). The Site consists of multiple tenants, including an online wine retail business, a furniture fabrication business, and several light industrial warehouses and workshops.

SteelWave's redevelopment plans for the Site include grading and shallow soil excavation for utility trenches, building footings, and other improvements, and the excavated soil will therefore require disposal. Haley & Aldrich recently completed a Phase I Environmental Site Assessment (Phase I) for the Site (Haley & Aldrich, 2019). Based on the Phase I findings, the proposed grading and shallow soil excavation areas may be impacted based on historical activities, including the operation of a foundry and agricultural greenhouses. The objective of the limited Phase II investigation was to characterize the soil conditions in the areas to be excavated to determine if these historical activities may have adversely impacted this soil and therefore require special on-Site handling and off-Site disposal procedures, including the possible generation of hazardous waste.

The Site is underlain by fine-grained alluvial soils consisting primarily of clays and silts with some silty fine to medium grained sands and scattered fine gravel. Groundwater was not encountered during the investigation, but based on available data, groundwater beneath the Site is encountered at approximately 10 to 14 feet below ground surface (bgs) and flows toward the west/northwest.

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2. Field Investigation

Haley & Aldrich conducted soil sampling activities in December 2019 to characterize the existing subsurface conditions within areas of the Site where historical activities or features may pose an environmental concern. Relevant historical Site features evaluated for their potential subsurface impact to the Site through this Phase II Investigation included: 1) a former foundry area; 2) a former and previously removed underground storage tank; and 3) a former agricultural area. The relevant historical features and Phase II Investigation sampling locations are shown on Figure 2.

2.1 PRE-FIELD ACTIVITIES

Underground Service Alert (USA) was notified as required, and Precision Locating, LLC, cleared the drilling locations prior to conducting the subsurface work. A drilling permit was obtained from the City of Berkeley Planning and Development Department, Toxics Management Division. A Site-specific Health and Safety Plan was also prepared to help ensure worker safety during the field activities.

2.2 SOIL INVESTIGATION

Haley & Aldrich contracted Environmental Control Associates, Inc., a California C-57 licensed driller, to complete the soil borings. To minimize the risk of encountering unmarked and undetected underground utilities during drilling and ensure the health and safety of workers, each boring was advanced by hand auger or soil probe to a depth of five feet bgs. Five borings (B-1 through B-5) were advanced by a truck-mounted GeoProbe™ direct-push technology drill rig to collect soil samples. Borings B-1 and B-2 were advanced in the northern portion of the East Block where historical agricultural operations were identified; borings B-3, B-4, and B-5 were advanced in the southwestern corner of the West Block within a former foundry operations area and active auto mechanic and glass works facility (Figure 2). Boring B-3 was advanced adjacent to the former underground storage tank. A sixth boring was proposed in the southwestern corner of the West Block but was not advanced because of access issues. This proposed boring was outside of the former foundry footprint and active facilities and was not considered critical for the investigation.

Recovered soil was screened with a photoionization detector (PID) and logged in the field in accordance with the visual-manual procedures of American Society for Testing and Materials (ASTM) Standard D-2488-09a. Samples were collected from depths of 1, 3, and 9 feet bgs. No visual or olfactory impacts or PID detections were observed while logging and screening the recovered soil.

All samples were collected following standard environmental sampling and handling procedures and submitted under standard chain of custody documentation to Pace Analytical of Mt. Juliet, Tennessee. Pace Analytical analyzed the samples following the appropriate U.S. Environmental Protection Agency (EPA) Methods.

Once the sampling program had been completed, the borings were backfilled with neat cement grout. Haley & Aldrich received permission from the City of Berkeley Planning and Development Department, Toxics Management Division to backfill borings without an inspector present because the inspector was unavailable. All down-hole equipment was decontaminated prior to starting each new boring location by washing the equipment with laboratory grade detergent and water followed by a water rinse.

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The generated investigation-derived waste (IDW) consisted of soil cuttings placed in one 55-gallon drum. One composite sample was collected for waste characterization. The IDW drum is properly labeled and temporarily stored on-Site pending proper off-Site disposal.

Field documentation, including the City of Berkeley Planning and Development Department, Toxics Management Division drilling permit and Haley & Aldrich's soil boring logs, are provided in Appendix A.

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3. Analytical Results

Soil samples were analyzed for the following analytes:

- California Title 22 Metals using EPA Method 6010B/7471A (all samples);
- Organochlorine pesticides using EPA Method 8081A (1 foot bgs samples only);
- Volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) as gasoline using EPA Method 8260B; these samples were collected and preserved using EPA Method 5035 (1 foot bgs samples only; four former foundry area borings only); and
- TPH as diesel and motor oil using EPA Method 8015B (all samples).

The soil analytical results were compared to the soluble threshold limit concentration (STLC), total threshold limit concentration (TTLC), and toxicity characteristic leaching procedure as well as the Commercial/Industrial: Shallow Soil Exposure and Construction Worker: Any Land Use / Any Depth Soil Exposure environmental screening levels (ESLs) published in July 2019 (Revision 2) by the San Francisco Bay Regional Water Quality Control Board (SFRWQCB). The commercial/industrial ESLs were selected for comparison based on the proposed Site redevelopment.

Detected analytical results from the soil sampling activities are presented in Table 1 (only detected constituents are shown). The laboratory analytical reports are provided in Appendix B. The following sections summarize the soil data screened against ESLs and waste disposal criteria.

3.1 COMMERCIAL/INDUSTRIAL: SHALLOW SOIL EXPOSURE

The soil analytical results were compared to the SFRWQCB commercial/industrial shallow exposure ESLs. All detected analytes were below their respective commercial/industrial shallow exposure ESLs, except for arsenic. Although the results for arsenic in soil exceed its commercial/industrial ESL, all of the detected concentrations were below the upper estimate for background arsenic concentration of 11 milligrams per kilogram established by the SFRWWQCB for soil in the region (Diverge, 2011). Organochlorine pesticides were not detected above the reporting limit for any of the samples, and the detected TPH and VOC concentrations were all below the commercial/industrial shallow exposure ESL. Based on the soil results, additional mitigation measures would not be required if the Site were to remain commercial/industrial.

3.2 DISPOSAL CLASSIFICATION

Requirements of Title 22 of the California Code of Regulations, Division 4.5, Chapter 11 were used to evaluate how soil removed from the Site would be classified for disposal. The total concentrations of all constituents in all soil samples were below the TTLC. Based on experience, a California Waste Extraction Test (WET) is typically performed if the total concentrations of a constituent in soil exceeds 10 times the absolute value of the STLC. The total chromium concentrations for all but one soil samples exceeded 10 times its STLC; a WET was therefore performed for chromium on the two samples with the highest chromium concentrations (B-1 at 3 feet bgs and B-4 at 1 foot bgs). The lead results for one sample (B-2 at 1 foot bgs) also exceeded 10 times its STLC; a WET was therefore performed for lead on the 1 foot bgs

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sample collected at B-2. The WET results were all below the respective STLC for chromium and lead, thereby classifying the soil as non-hazardous waste.

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4. Conclusions and Recommendations

Site soil conditions in the areas investigated are not anticipated to impact the proposed Site redevelopment. Based on the analytical data for the collected soil samples, soil excavated from the investigated areas should be classified as non-hazardous waste. The results presented herein should not be used for waste characterization purposes, and excavated soil should be properly stockpiled, sampled, and analyzed for waste disposal characterization prior to disposal. A Site Management Plan (SMP) outlining soil handling and disposal requirements is recommended prior to excavating soil. Additionally, as the Site's proposed redevelopment activities will expose soil from other areas of the Site not evaluated, the SMP would specify appropriate procedures should conditions with potential environmental concerns be uncovered.

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References

1. Duvergé, 2011. “Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region,” December.

2. Haley & Aldrich, Inc., 2019. “Report on ASTM Phase I Environmental Site Assessment, West Berkeley Project, Berkeley, California,” 18 November.

3. San Francisco Bay Regional Water Quality Control Board (SFRWQCB), 2019. “User’s Guide: Derivation and Application of Environmental Screening Levels, Revision 2.” Oakland, CA. July.

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TABLES

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TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
STEELWAVE WEST BERKELEY
BERKELEY, CALIFORNIA

Analyte	Comm./ Indust. ESL	10x STLC	20x TCLP	STLC	TTLC	Location ID	B-1				B-2		
						Sample ID	B-1-SS-1.0-121119	B-1-SS-3.0-121119	B-1-SS-3.0-121119	B-1-SS-9.0-121119	B-2-SS-1.0-121119	B-2-SS-1.0-121119	B-2-SS-3.0-121119
						Sample Date	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019
						Sample Depth (feet bgs)	1.0	3.0	3.0	9.0	1.0	1.0	3.0
Metals (mg/kg)													
Antimony	160	150	--	--	500		**1.25 J**	**1.31 J**	--	**0.978 J**	**0.929 J**	--	**1.00 J**
Arsenic	0.31	50	100	--	500		**4.88**	**4.09**	--	**10.7**	**2.47**	--	**2.46**
Barium	220,000	1,000	2,000	--	10,000		**185**	**187**	--	**159**	**177**	--	**130**
Beryllium	230	7.5	--	--	75		**0.756**	**0.747**	--	**0.433**	**0.430**	--	**0.568**
Cadmium	1,100	10	20	--	100		**0.109 J**	**0.178 J**	--	**0.270 J**	**0.245 J**	--	**0.173 J**
Chromium	--	50	100	--	2,500		**64.2**	**70.1**	--	**61.2**	**38.0**	--	**66.7**
Cobalt	350	800	--	--	8,000		**47.0**	**14.4**	--	**16.7**	**9.72**	--	**9.21**
Copper	47,000	250	--	--	2,500		**21.2**	**25.5**	--	**32.3**	**20.9**	--	**23.2**
Lead	320	50	100	--	1,000		**6.83**	**4.29**	--	**5.55**	**71.9**	--	**3.80**
Mercury	190	2.0	4.0	--	20		**0.160**	**0.0514**	--	**0.0308 J**	**0.311**	--	**0.211**
Molybdenum	5,800	3,500	--	--	3,500		**1.27**	**0.380 J**	--	**0.505 J**	**0.360 J**	--	**0.302 J**
Nickel	11,000	200	--	--	2,000		**44.5**	**71.6**	--	**46.8**	**29.8**	--	**49.8**
Selenium	5,800	10	20	--	100		< 0.763	< 0.773	--	< 0.714	< 0.755	--	< 0.750
Silver	5,800	50	100	--	500		< 0.148	< 0.150	--	< 0.138	< 0.146	--	< 0.145
Thallium	12	70	--	--	700		< 0.800	< 0.810	--	< 0.749	< 0.791	--	< 0.786
Vanadium	5,800	240	--	--	2,400		**77.9**	**84.9**	--	**89.9**	**43.9**	--	**56.4**
Zinc	350,000	2,500	--	--	5,000		**41.7**	**57.6**	--	**66.7**	**78.9**	--	**48.1**
Soluble Threshold Limit Concentration (µg/L)													
Chromium	--	--	--	5,000	2,500		--	--	**94.2**	--	--	--	--
Lead	--	--	--	5,000	1,000		--	--	--	--	--	**615**	--
Total Petroleum Hydrocarbons (mg/kg)													
Total Petroleum Hydrocarbons (C12-C22)	--	--	--	--	--		< 0.903	< 0.914	--	< 0.844	< 0.892	--	< 0.887
Total Petroleum Hydrocarbons (C22-C32)	--	--	--	--	--		< 1.64	< 1.66	--	< 1.53	**4.18 J**	--	< 1.61
Total Petroleum Hydrocarbons (C32-C40)	--	--	--	--	--		< 1.64	< 1.66	--	< 1.53	**4.53 J**	--	**2.13 J**
Total Petroleum Hydrocarbons (C5-C12) GRO	--	--	--	--	--		--	--	--	--	--	--	--
Volatile Organic Compounds (mg/kg)													
2-Butanone (Methyl Ethyl Ketone)	200,000	--	4,000	--	--		--	--	--	--	--	--	--
Acetone	670,000	--	--	--	--		--	--	--	--	--	--	--
Benzene	1.4	--	10	--	--		--	--	--	--	--	--	--
Toluene	5,300	--	--	--	--		--	--	--	--	--	--	--

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TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
STEELWAVE WEST BERKELEY
BERKELEY, CALIFORNIA

						Location ID	**B-2**	**B-3**			**B-4**		
						Sample ID	B-2-SS-9.0-121119	B-3-SS-1.0-121119	B-3-SS-3.0-121119	B-3-SS-9.0-121119	B-4-SS-1.0-121119	B-4-SS-1.0-121119	B-4-SS-3.0-121119
						Sample Date	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019
						Sample Depth (feet bgs)	9.0	1.0	3.0	9.0	1.0	1.0	3.0
Analyte	**Comm./ Indust. ESL**	**10x STLC**	**20x TCLP**	**STLC**	**TTLC**								
Metals (mg/kg)													
Antimony	160	150	--	--	500	**1.18 J**	< 0.952	**< 0.926**	**1.55 J**	< 0.942	--	< 0.903
Arsenic	0.31	50	100	--	500	**4.99**	**1.49 J**	< 0.568	**6.06**	**1.99 J**	--	< 0.554
Barium	220,000	1,000	2,000	--	10,000	**163**	**163**	**361**	**124**	**247**	--	**257**
Beryllium	230	7.5	--	--	75	**0.557**	**0.668**	**0.574**	**0.421**	**0.714**	--	**0.517**
Cadmium	1,100	10	20	--	100	**0.156 J**	**0.0897 J**	**0.104 J**	**0.200 J**	**0.183 J**	--	**0.141 J**
Chromium	--	50	100	--	2,500	**67.8**	**68.3**	**56.1**	**53.2**	**69.2**	--	**67.2**
Cobalt	350	800	--	--	8,000	**19.1**	**11.5**	**7.70**	**15.3**	**12.4**	--	**11.3**
Copper	47,000	250	--	--	2,500	**27.3**	**25.9**	**20.2**	**24.1**	**26.3**	--	**21.4**
Lead	320	50	100	--	1,000	**6.01**	**5.44**	**4.62**	**5.72**	**8.02**	--	**4.76**
Mercury	190	2.0	4.0	--	20	**0.0475**	**0.0259 J**	**0.0272 J**	**0.0372 J**	**0.0320 J**	--	**0.0418**
Molybdenum	5,800	3,500	--	--	3,500	**0.523 J**	< 0.203	< 0.197	**0.394 J**	< 0.201	--	< 0.193
Nickel	11,000	200	--	--	2,000	**77.3**	**54.2**	**54.2**	**58.1**	**49.9**	--	**61.0**
Selenium	5,800	10	20	--	100	< 0.769	< 0.787	< 0.765	< 0.768	< 0.779	--	< 0.746
Silver	5,800	50	100	--	500	< 0.149	**< 0.152**	< 0.148	< 0.149	< 0.151	--	< 0.144
Thallium	12	70	--	--	700	**< 0.807**	**< 0.825**	< 0.802	< 0.805	< 0.816	--	< 0.782
Vanadium	5,800	240	--	--	2,400	**73.2**	**63.6**	**42.2**	**64.7**	**66.6**	--	**54.8**
Zinc	350,000	2,500	--	--	5,000	**53.3**	**47.6**	**45.3**	**52.2**	**41.9**	--	**60.2**
Soluble Threshold Limit Concentration (µg/L)													
Chromium	--	--	--	5,000	**2,500**	**--**	--	--	--	--	**190**	--
Lead	--	--	--	5,000	**1,000**	**--**	--	--	--	--	--	--
Total Petroleum Hydrocarbons (mg/kg)													
Total Petroleum Hydrocarbons (C12-C22)	--	--	--	--	--	**1.87 J**	< 0.931	< 0.905	< 0.908	**1.65 J**	--	< 0.882
Total Petroleum Hydrocarbons (C22-C32)	--	--	--	--	--	**1.92 J**	**1.77 J**	< 1.64	< 1.65	**4.41 J**	--	< 1.60
Total Petroleum Hydrocarbons (C32-C40)	--	--	--	--	--	< 1.65	< 1.69	< 1.64	< 1.65	**3.49 J**	--	< 1.60
Total Petroleum Hydrocarbons (C5-C12) GRO	--	--	--	--	--	--	**0.0514 J**	--	--	**0.0762 J**	--	--
Volatile Organic Compounds (mg/kg)													
2-Butanone (Methyl Ethyl Ketone)	200,000	--	4,000	--	--	--	**0.0324**	--	--	**0.0264 J**	--	--
Acetone	670,000	--	--	--	--	--	**0.0704**	--	--	**0.0406**	--	--
Benzene	1.4	--	10	--	--	--	**0.00177**	--	--	< 0.000522	--	--
Toluene	5,300	--	--	--	--	--	**0.0169**	--	--	**0.0124**	--	--

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TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
STEELWAVE WEST BERKELEY
BERKELEY, CALIFORNIA

						Location ID	**B-4**	**B-5**		
						Sample ID	B-4-SS-9.0-121119	B-5-SS-1.0-121119	B-5-SS-3.0-121119	B-5-SS-9.0-121119
						Sample Date	12/11/2019	12/11/2019	12/11/2019	12/11/2019
						Sample Depth (feet bgs)	9.0	1.0	3.0	9.0
Analyte	**Comm./ Indust. ESL**	**10x STLC**	**20x TCLP**	**STLC**	**TTLC**					
Metals (mg/kg)										
Antimony	160	150	--	--	500		< 0.886	**1.30 J**	**0.936 J**	**1.27 J**
Arsenic	0.31	50	100	--	500		**2.41**	**1.84 J**	**3.40**	**3.76**
Barium	220,000	1,000	2,000	--	10,000		**158**	**133**	**111**	**124**
Beryllium	230	7.5	--	--	75		**0.455**	**0.489**	**0.404**	**0.521**
Cadmium	1,100	10	20	--	100		**0.240 J**	**0.127 J**	**0.162 J**	**0.124 J**
Chromium	--	50	100	--	2,500		**55.5**	**63.3**	**54.0**	**60.1**
Cobalt	350	800	--	--	8,000		**26.2**	**12.0**	**10.7**	**14.6**
Copper	47,000	250	--	--	2,500		**21.9**	**20.5**	**20.1**	**20.0**
Lead	320	50	100	--	1,000		**6.26**	**16.5**	**5.61**	**6.78**
Mercury	190	2.0	4.0	--	20		**0.0376**	**0.0637**	**0.0286 J**	**0.0269 J**
Molybdenum	5,800	3,500	--	--	3,500		**0.277 J**	< 0.188	< 0.187	**0.349 J**
Nickel	11,000	200	--	--	2,000		**87.5**	**57.0**	**41.9**	**67.0**
Selenium	5,800	10	20	--	100		< 0.733	< 0.728	< 0.726	< 0.726
Silver	5,800	50	100	--	500		< 0.142	< 0.141	< 0.140	< 0.141
Thallium	12	70	--	--	700		< 0.768	< 0.763	< 0.761	< 0.761
Vanadium	5,800	240	--	--	2,400		**54.9**	**49.3**	**45.4**	**60.1**
Zinc	350,000	2,500	--	--	5,000		**38.0**	**46.2**	**39.9**	**40.6**
Soluble Threshold Limit Concentration (µg/L)										
Chromium	--	--	--	5,000	2,500		--	--	--	--
Lead	--	--	--	5,000	1,000		--	--	--	--
Total Petroleum Hydrocarbons (mg/kg)										
Total Petroleum Hydrocarbons (C12-C22)	--	--	--	--	--		< 0.866	**3.15 J**	**0.871 J**	< 0.858
Total Petroleum Hydrocarbons (C22-C32)	--	--	--	--	--		< 1.57	**35.0**	**4.76**	< 1.56
Total Petroleum Hydrocarbons (C32-C40)	--	--	--	--	--		< 1.57	**31.3**	**4.21 J**	< 1.56
Total Petroleum Hydrocarbons (C5-C12) GRO	--	--	--	--	--		--	**0.180**	--	--
Volatile Organic Compounds (mg/kg)										
2-Butanone (Methyl Ethyl Ketone)	200,000	--	4,000	--	--		--	**0.0256 J**	--	--
Acetone	670,000	--	--	--	--		--	**0.0648**	--	--
Benzene	1.4	--	10	--	--		--	**0.000567 J**	--	--
Toluene	5,300	--	--	--	--		--	**0.0169**	--	--

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TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
STEELWAVE WEST BERKELEY
BERKELEY, CALIFORNIA

Notes:

Only concentrations detected above the detection limit are shown
Screening Levels: Federal (RCRA-TCLP) and State (Title 22-STLC) Hazardous Waste Criteria, EPAESLs for Commercial and Industrial Shallow Soil Exposure and EPA Construction Worker Any Land Use from Table S-1
Volatile Organic Compounds (VOCs) analyzed by EPA Method 8260B
Metals analyzed by EPA Method 6010B/7471A
Total Petroleum Hydrocarbons analyzed by EPA Method 8015
Pesticides analyzed by EPA Method 8081
Total Solids analyzed by EPA Method 2540G
Orange highlight = Result exceeds the Construction Worker ESL
Green highlight = Result exceeds the commercial/industrial ESL
Blue highlight = Result exceeds 10x the STLC threshold

Abbreviations:

< = Analyte not detected above the referenced detection limit
-- = Not applicable
mg/kg = Milligrams per kilogram
µg/L = Micrograms per liter
ft bgs = Feet below ground surface
J = Estimated result
RCRA = Resource Conservation and Recovery Act
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure

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FIGURES

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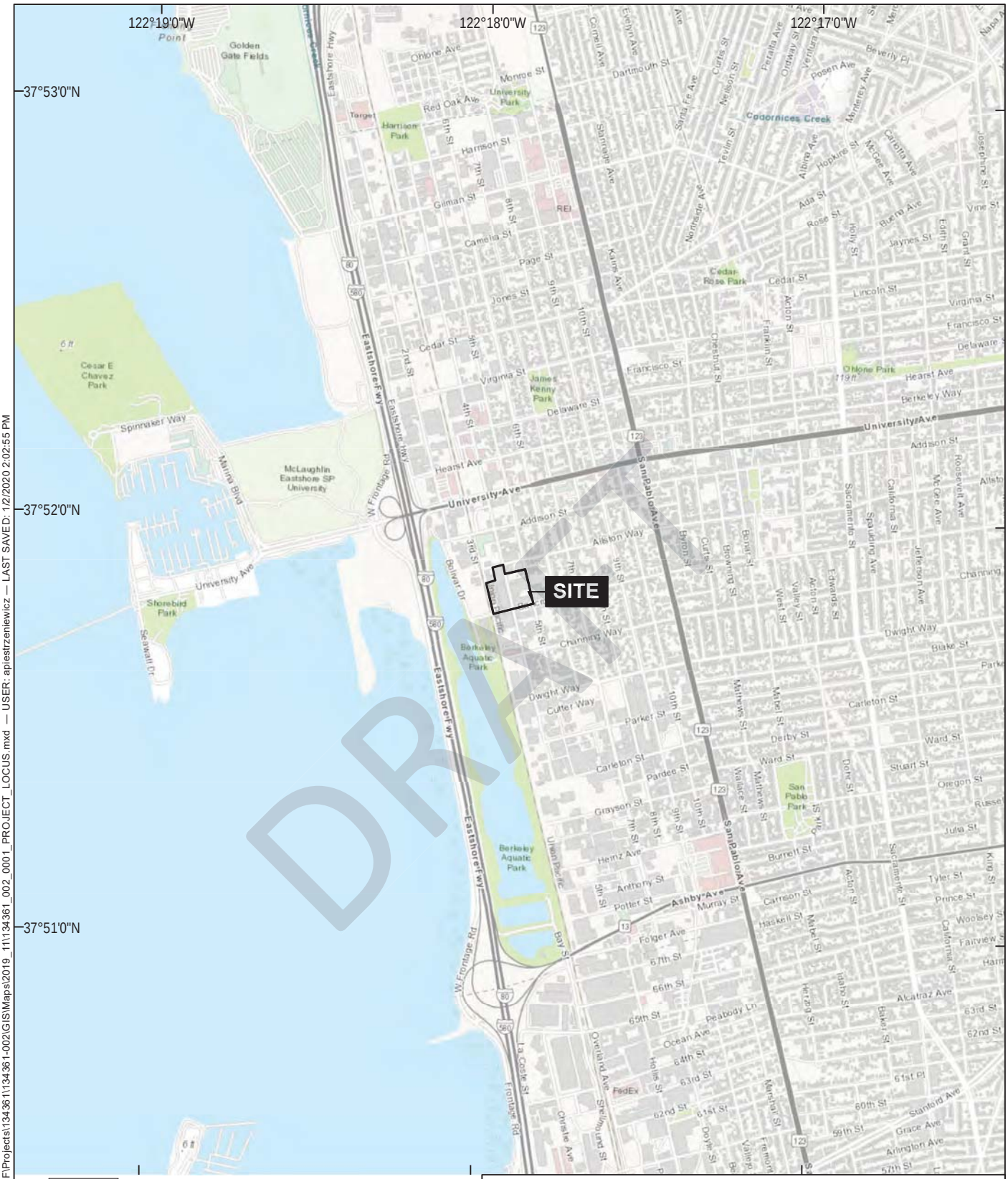
122°19'0"W
122°18'0"W
122°17'0"W
37°53'0"N
37°52'0"N
37°51'0"N
SITE
DRAFT
Golden Gate Fields
Cesar E Chavez Park
McLaughlin Eastshore SP University
Shorebird Park
Berkeley Aquatic Park
James Kenny Park
Cedar-Rose Park
Ohlone Park
San Pablo Park
Codornices Creek
Eastshore Fwy
San Pablo Ave
University Ave
Ashby Ave
Harrison Park
University Park
Target
REI
FedEx
Spinnaker Way
Marina Blvd
Seawall Dr
W Frontage Rd
Eastshore Hwy
Ohlone Ave
Monroe St
Red Oak Ave
Harrison St
Gilman St
Camelia St
Page St
Jones St
Cedar St
Virginia St
Delaware St
Hearst Ave
Addison St
Aliston Way
Bancroft Way
Dwight Way
Channing Way
Parker St
Ward St
Carleton St
Derby St
Prince St
Tyler St
Stuart St
Oregon St
Julia St
Burnett St
Carrison St
Haskell St
Folger Ave
Murray St
Potter St
Anthony St
Heinz Ave
Grayson St
Pardee St
Cutter Way
Bay St
Peabody Dr
Ocean Ave
Overland Ave
Shellmound St
Christie Ave
Frontage Rd
La Costa St
Albina Ave
Hopkins St
McGee Ave
Carlotta Ave
Josephine St
Ada St
Rose St
Buena Ave
Jaynes St
Edith St
Grand St
Vine St
Lincoln St
Virginia St
Francisco St
Delaware St
Hearst Ave
Berkeley Way
Addison St
Roosevelt Ave
Allston
Channing
Dwight Way
Blake St
Carleton St
Ward St
Stuart St
Oregon St
Russell St
Julia St
Burnett St
Tyler St
Prince St
Woolsey St
Fairview
Harmon
Alcatraz Ave
63rd St
62nd St
61st Pl
60th St
59th St
Stanford Ave
Grace Ave
Arlington Ave
57th St
Peralta Ave
Ordway St
Ventura Ave
Beverly Pl
Posen Ave
Monterey Ave
Curtis St
Nelson St
Santa Fe Ave
Dartmouth St
Evelyn Ave
Carmel Ave
Stanage Ave
Kains Ave
Normandie Ave
Holly St
Edwards St
Valley St
West St
Acton St
Sacramento St
Spaulding Ave
California St
Jefferson Ave
Byron St
Curtis St
Bonar St
Browning St
Matthews St
Mabel St
Doris St
Wallace St
Derby St
Ward St
Carleton St
Parker St
10th St
9th St
8th St
7th St
6th St
5th St
4th St
3rd St
2nd St
Bolivar Dr
Union Pacific
Chestnut St
Franklin St
Acton St
Sacramento St
Milvia St
Shattuck Ave
Telegraph Ave
Fulton St
Dana St
Bowditch St
College Ave
Claremont Ave
Piedmont Ave
Harmon St
Idaho St
Herzog St
Baker St
Marshall St
Doyle St
Fremont St
Valley St
Hollis St
Shellmound St
Overland Ave
Peabody Dr
Ocean Ave
64th St
63rd St
62nd St
61st St
67th St
66th St
65th St
Folger Ave
Bay St
Potter St
Murray St
Ashby Ave
Haskell St
Carrison St
Prince St
Tyler St
Burnett St
Julia St
Oregon St
Stuart St
Ward St
Derby St
Carleton St
Parker St
Dwight Way
Channing Way
Blake St
Bancroft Way
Aliston Way
Addison St
University Ave
Hearst Ave
Berkeley Way
Delaware St
Francisco St
Virginia St
Lincoln St
Cedar St
Rose St
Ada St
Vine St
Josephine St
Grand St
Edith St
Jaynes St
Buena Ave
Carlotta Ave
McGee Ave
Hopkins St
Albina Ave
Monterey Ave
Ordway St
Ventura Ave
Beverly Pl
Posen Ave
Peralta

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LEGEND

- SHALLOW SOIL BORING
- FORMER UST
- FORMER FOUNDRY
- FORMER AGRICULTURAL
- PROPOSED GRADING AND SHALLOW EXCAVATION AREA - WEST BLOCK
- PROPOSED GRADING AND SHALLOW EXCAVATION AREA - EAST BLOCK
- FORMER ACUITY BRANDS LIGHTING
- IRONIES FABRICATION ASSEMBLY
- WINE.COM
- FORMER PEERLESS ELECTRIC SITE
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: EAGLEVIEW, 2017
4. BGS = BELOW GROUND SURFACE

N

0 80 160
SCALE IN FEET

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STEELWAVE WEST BERKELEY PROJECT
BERKELEY, CALIFORNIA

SITE PLAN

JANUARY 2020

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\134361\134361-002\GIS\Maps\2019_11\134361_002_0002_PROP_BORINGS.mxd — USER: apiesiewicz — LAST SAVED: 1/2/2020 2:03:00 PM

APPENDIX A

City of Berkeley Exploratory Boring Permit and Boring Logs

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CITY OF BERKELEY

RECEIVED

DEC 05 2019

TOXICS MANAGEMENT DIVISION

Planning and Development Department
Toxics Management Division
A Certified Unified Program Agency

TMD Use Only

Permit No.: 20-EB.40 *(expires 120 days from approval)*
Permit Fee: $960 **Check #:**
Approved by: **Date:** 12/6/19
Admin: Contractor Licenses – Reviewed by: PM
Geo/Eng license (Y) / N CoB Business Y / (N)
Driller license (Y) / N CoB Business (Y) / N
Documents Scanned by:

Revised 7/10/2018

SUBSURFACE DRILLING PERMIT APPLICATION

Purpose of Application	☐ Groundwater Monitoring/Vapor Well **Installation** ☐ Groundwater Monitoring/Vapor Well **Destruction** (Provide approval letter from oversight agency) ☐ Well **Modification** (pumps, vacuums, probes, elevation, etc.) **Number of Wells:** _____	■ Soil Borings, probes, sampling points **Number of Borings:** 6 ☐ Extension of Permit # _____

Name of Facility: Herst Properties	
Address: 2214 4th Street, 2222 5th Street, 705 Bancroft Way, Berkeley CA 94710	
Business Telephone: 510-923-6247	Emergency Telephone: 510-913-6247

Property Owner: Herst Properties	
Owner Address: 747 Bancroft Way, Berkeley, CA 94710	

Supervising Geological or Engineering Co.: Haley & Aldrich, Inc.		City of Berkeley Business Lic #: N/A	
Address/City: 2033 N. Main Street Suite 309, Walnut Creek, CA 94596			
Geol/Eng Lic. #: CA PG #9669	Tel.: 714-371-1805	Fax: 925-979-1456	
Contact Person: Adam Piestrzeniewicz	Email: apiestrzeniewicz@haleyaldrich.com		

Drilling Co.: Environmental Control Associates		City of Berkeley Business Lic #: BL-002431	
Address/City: 3011 Twin Palms Drive, Aptos, CA 95003			
C-57 License #: 695970	Exp. Date: 9/30/20	Tel.: 831-662-8178	Fax: 831-662-8179
Local Contact Person: Timothy B. Tyler		Email: tbtyler@sbcglobal.net	

Construction/Destruction Specifications (attach information as needed for multiple construction types)		
Borehole/Well Casing Diameter: 2.25 in.		Gauge of Well Casing: N/A
Borehole/Well Depth: 10 ft. bgs	Well Screen type: N/A	Slot Size: N/A
Type of grout (specify mix or product): Neat cement grout (94 lbs Portland cement and 6 gallons water)		

- **Provide a scaled plan** identifying the proposed drilling locations, property boundaries, streets, structures, pollution source areas.
- Call the Toxics Management Division (TMD) at (510) 981-7460 to schedule an inspection of the grout sealing of wells, probes and boreholes. **Notify TMD a minimum of two (2) working days in advance** of first scheduled day of drilling
- This permit is subject to the Conditions of Approval stated on the following page.

I certify that I have prepared this application and that the work will be done in accordance with the conditions of this permit, the provisions of the laws of the State of California, including State Water Well Standards, and the ordinances and the rules and regulations of the City of Berkeley.

Signed Adam Piestrzeniewicz Representing Haley & Aldrich Date 12/3/19

FEES: First Well/Each add'l: $420/$150 First Soil Boring/Each add'l: $210/$150

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HALEY ALDRICH

TEST BORING REPORT

BORING NO. B-1

Page 1 of 1

PROJECT	Steelwave - West Berkeley	H&A FILE NO.	134361-003
LOCATION	Berkeley, CA	PROJECT MGR.	J Grant
CLIENT	Steelwave - West Berkeley	FIELD REP.	A Piestrzeniewicz
CONTRACTOR	ECA	DATE STARTED	12/11/19
DRILLER	D. Sprinkle	DATE FINISHED	12/11/19

Elevation	Datum	Boring Location			PID Make / Model:	
Item	asir	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud / Casing Advance
Type		S		☑ Truck ☐ Tripod ☐ Cat-Head	☐ Safety	☐ Bentonite / Type Method Depth
Inside Diameter (in.)		1 3/8		☐ ATV ☑ Geoprobe ☐ Winch	☐ Doughnut	☐ Polymer
Hammer Weight (lb.)		140		☐ Track ☐ Air Track ☐ Roller Bit	☐ Automatic	☐ None / Direct Push
Hammer Fall (in.)		30		☐ Skid ☐ ☐ Cutting Head	Drilling Notes:	

Depth (ft.)	Sampler Blows per 6 in.	Sample Depth (ft.)	PID Reading	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G	0.0		CL	Surface: cracked concrete parking lot. Very dark gray (2.5 Y 3/1) LEAN CLAY WITH SAND (CL), fine sand, no odor, moist					15	85			M	M
		G	0.0			Dark grayish brown (2.5 Y 4/2), LEAN CLAY WITH SAND (CL), fine sand, no odor, damp.					15	85			M	M
			0.0	2	SM/ ML	Dark yellowish brown (10 YR 4/4) SILTY SAND WITH GRAVEL (SM) / SANDY SILT WITH GRAVEL (ML), fine gravel, no odor, damp, scattered brick fragments.		15		10		75				
		G	0.1													
			0.0													
5			0.0													
			0.0	6	SM	Dark yellowish brown (10 YR 4/4) SILTY SAND WITH GRAVEL (SM), fine gravel, no odor, moist, scattered brick fragments		15		10	45	30				
			0.1													
			0.1													
		G	0.1			increase in fine gravel content, moist to wet		15		10	50	25				
10						Total Depth: 10 ft bgs No groundwater encountered Backfilled with cement grout										
15																
20																

Water Level Data					Sample ID	Well Diagram	Summary
Date	Time	Depth in feet to: Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (Linear ft) Rock Cored (Linear ft) Number of Samples BORING NO.

Field Tests: R - Rapid S - Slow N - None; L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Meduim H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

TEST BORING REPORT

BORING NO. B-2

Page 1 of 1

PROJECT	Steelwave - West Berkeley	H&A FILE NO.	134361-003
LOCATION	Berkeley, CA	PROJECT MGR.	J Grant
CLIENT	Steelwave - West Berkeley	FIELD REP.	A Piestrzeniewicz
CONTRACTOR	ECA	DATE STARTED	12/11/19
DRILLER	D. Sprinkle	DATE FINISHED	12/11/19

Elevation	Datum	Boring Location			PID Make / Model:		
Item	asin	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type		S		☑ Truck ☐ Tripod ☐ Cat-Head	☐ Safety	☐ Bentonite	Type Method Depth
Inside Diameter (in.)		1 3/8		☐ ATV ☑ Geoprobe ☐ Winch	☐ Doughnut	☐ Polymer	
Hammer Weight (lb.)		140		☐ Track ☐ Air Track ☐ Roller Bit	☐ Automatic	☐ None	Direct Push
Hammer Fall (in.)		30		☐ Skid ☐ ☐ Cutting Head	Drilling Notes:		

Depth (ft.)	Sampler Blows per 6 in.	Sample Depth (ft.)	PID Reading	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			0.1		SM	Surface: Cracked asphalt Very dark grayish brown (2.5Y 3/2) SILTY SAND WITH GRAVEL (SM), fine gravel		15		10	45	30				
		G	0.0	1	CL	no odor, damp										
			0.0	1.5	ML	Very dark gray (2.5Y 3/1), LEAN CLAY (CL) clay, no odor, moist						100			M	M
		G	0.0	2.5	CL	Dark yellowish brown (10YR 4/4) SILT WITH SAND (ML), fine sand, no odor, damp, scattered fine gravel and brick					15	85			L	M
			0.0			Olive brown (2.5Y 4/3) LEAN CLAY (CL) silt, no odor, damp						100			M	M
5			0.0													
			0.1													
			0.0	0.5	ML	Dark yellowish brown (10YR 4/4) SANDY SILT WITH GRAVEL (ML), fine gravel, no odor, damp, scattered brick		15		10	10	65			L	M
			0.1	8	CL	Yellowish brown (10YR 5/4), LEAN CLAY WITH SAND (CL), fine sand, no odor, damp, scattered gravel and brick					15	85			L	M
		G	0.1													
10						Total Depth = 10 ft bgs No groundwater encountered Backfilled with cement grout										
15																
20																

Water Level Data					Sample ID	Well Diagram	Summary
Date	Time	Depth in feet to: Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (Linear ft.) Rock Cored (Linear ft.) Number of Samples BORING NO.

Field Tests: R - Rapid S - Slow N - None; L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Meduim H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

TEST BORING REPORT

BORING NO. B-3

Page 1 of 1

PROJECT	Steelwave - West Berkeley	H&A FILE NO.	134361-003
LOCATION	Berkeley, CA	PROJECT MGR.	J Grant
CLIENT	Steelwave - West Berkeley	FIELD REP.	A Piestrzeniewicz
CONTRACTOR	ECA	DATE STARTED	12/11/19
DRILLER	R. Sprinkle	DATE FINISHED	12/11/19

Elevation	Datum	Boring Location	PID Make / Model:
Item	asir	Sampler	Core Barrel
Type		S	
Inside Diameter (in.)		1 3/8	
Hammer Weight (lb.)		140	
Hammer Fall (in.)		30	

Rig Make & Model: ☑ Truck ☐ Tripod ☐ Cat-Head ☐ Winch ☐ ATV ☑ Geoprobe ☐ Track ☐ Air Track ☐ Roller Bit ☐ Skid ☐ Cutting Head

Hammer Type	Drilling Mud	Casing Advance
☐ Safety	☐ Bentonite	Type Method Depth
☐ Doughnut	☐ Polymer	Direct Push
☐ Automatic	☐ None	

Drilling Notes:

Depth (ft.)	Sampler Blows per 6 in.	Sample Depth (ft.)	PID Reading	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency color. GROUP NAME & SYMBOL. maximum particle size* structure. odor moisture optional descriptions geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			0.0		CL	0 Surface: 1" deteriorated asphalt Very dark gray (2.5Y 3/1), LEAN CLAY (CL), silt, no odor, damp						100			M	M
		G	0.0													
			0.0													
		G	0.0			color change to dark grayish brown (2.5Y 4/2), scattered fine gravel and brick		5				95			L	M
			0.0													
5			0.0													
			0.0													
			0.1	7	ML	Yellowish brown (2.5Y 5/4), SILT WITH SAND (ML) fine sand, no odor, damp					20	80			L	M
			0.1			Yellowish brown (2.5Y 5/4) SANDY SILT WITH GRAVEL (ML), fine gravel, no odor, damp		15		15	15	55			L	M
		G	0.0			Yellowish brown (2.5Y 5/4), SILT WITH SAND (ML), fine sand, no odor, damp					15	85			L	M
10																
						Total Depth = 10 ft bgs No groundwater encountered Backfilled with cement grout.										
15																
20																

Water Level Data				
Date	Time	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID		Well Diagram	Summary
O	Open End Rod	Riser Pipe	
T	Thin Wall Tube	Screen	Overburden (Linear ft.)
U	Undisturbed Sample	Filter Sand	Rock Cored (Linear ft.)
S	Split Spoon Sample	Cuttings	Number of Samples
G	Geoprobe	Grout	
		Concrete	BORING NO.
		Bentonite Seal	

Field Tests: R - Rapid S - Slow N - None; L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Meduim H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

TEST BORING REPORT

BORING NO. B-4

Page 1 of 1

PROJECT	Steelwave - West Berkeley	H&A FILE NO.	134361-003
LOCATION	Berkeley, CA	PROJECT MGR.	J Grant
CLIENT	Steelwave - West Berkeley	FIELD REP.	A Prestrzeniewicz
CONTRACTOR	ECA	DATE STARTED	12/11/19
DRILLER	D. Sprinkle	DATE FINISHED	12/11/19

Elevation	Datum			Boring Location		PID Make / Model:	
Item	asin	Sampler	Core Barrel	Rig Make & Model		Hammer Type	Drilling Mud
Type		S		☑ Truck ☐ Tripod ☐ Cat-Head		☐ Safety	☐ Bentonite
Inside Diameter (in.)		1 3/8		☐ ATV ☑ Geoprobe ☐ Winch		☐ Doughnut	☐ Polymer
Hammer Weight (lb.)		140		☐ Track ☐ Air Track ☐ Roller Bit		☐ Automatic	☐ None
Hammer Fall (in.)		30		☐ Skid ☐ ☐ Cutting Head		Drilling Notes:	

Casing Advance	
Type Method	Depth
Direct Push	

Depth (ft.)	Sampler Blows per 6 in.	Sample Depth (ft.)	PID Reading	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test: Dilatancy	Field Test: Toughness	Field Test: Plasticity	Field Test: Strength
0			0.0		SM	0 Surface: 4" deteriorated asphalt Yellowish brown (10YR 5/4), SILTY SAND WITH GRAVEL (SM), fine gravel, no odor, damp		15		20	35	30				
		G	0.0	1	CL	Very dark gray (2.5Y 3/1) LEAN CLAY (CL), silt, no odor, damp						100			N	M
			0.0			Color change to dark greenish gray (GLEY 1 4/1)						100			M	M
		G	0.0													
			0.0													
5			0.1	4.5	ML	Light olive brown (2.5Y 5/3) SILT WITH SAND (ML), fine sand, no odor, damp Decrease in sand content					20	80			L	M
			0.0								15	85			L	M
			0.0			Scattered fine gravel and silt		5			15	80			L	M
			0.0			Decrease in sand content, increase in clay content		5			10	85			L	M
		G	0.0													
10						Total Depth: 10 ft bgs No groundwater encountered Backfilled with cement grout										
15																
20																

Water Level Data				
		Depth in feet to:		
Date	Time	Bottom of Casing	Bottom of Hole	Water

Sample ID	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	
BORING NO.	

Field Tests: R - Rapid S - Slow N - None; L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Meduim H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

TEST BORING REPORT

BORING NO. B-5

Page 1 of 1

PROJECT	Steelwave - West Berkeley	H&A FILE NO.	134361-003
LOCATION	Berkeley, CA	PROJECT MGR.	J Grant
CLIENT	Steelwave - West Berkeley	FIELD REP.	A Piestrzeniewicz
CONTRACTOR	ECA	DATE STARTED	12/11/19
DRILLER	D. Sprinkle	DATE FINISHED	12/11/19

Elevation	Datum	Boring Location			PID Make / Model:		
Item	asir	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type		S		☑ Truck ☐ Tripod ☐ Cat-Head	☐ Safety	☐ Bentonite	Type Method Depth
Inside Diameter (in.)		1 3/8		☐ ATV ☑ Geoprobe ☐ Winch	☐ Doughnut	☐ Polymer	
Hammer Weight (lb.)		140		☐ Track ☐ Air Track ☐ Roller Bit	☐ Automatic	☐ None	Direct Push
Hammer Fall (in.)		30		☐ Skid ☐ ☐ Cutting Head	Drilling Notes:		

Depth (ft.)	Sampler Blows per 6 in.	Sample Depth (ft.)	PID Reading	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			0.0		ML	0 Surface: 2" concrete Very dark grayish brown (2.5Y 3/2) SANDY SILT (ML), damp, no odor					35	65			L	M
		G	0.0			Grayish brown (2.5Y 5/2) SILT with SAND (ML), fine sand, no odor, damp					35	65			L	M
			0.0													
		G	0.0													
			0.1													
5			0.1	5	CL	Light olive brown (2.5Y 5/3) LEAN CLAY with SAND (CL), fine sand, no odor, damp					20	80			L	M
			0.0													
			0.0			Scattered fine gravel Decrease in sand content		5			15	80			L	M
			0.0													
		G	0.0													
10						Total Depth: 10 ft bgs No groundwater encountered Backfilled with cement grout.										
15																
20																

Water Level Data					Sample ID		Well Diagram	Summary
Date	Time	Depth in feet to: Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe		Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (Linear ft.) Rock Cored (Linear ft.) Number of Samples BORING NO.

Field Tests: R - Rapid S - Slow N - None; L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Meduim H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

APPENDIX B

Laboratory Reports

DRAFT

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 18, 2019

Haley & Aldrich - Walnut Creek, CA

Sample Delivery Group:	L1170116
Samples Received:	12/12/2019
Project Number:	134361-002
Description:	Steelwave

Report To:

Jason Grant
2033 N Main Street
Suite 309
Walnut Creek, CA 94596

DRAFT

Entire Report Reviewed By:

Brian Ford

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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B-1-SS-1.0 L1170116-01 Solid

Collected by: Adam P | Collected date/time: 12/11/19 10:50 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:23	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:31	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 21:42	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1396175	1	12/13/19 16:00	12/14/19 10:22	LEL	Mt. Juliet, TN

B-1-SS-3.0 L1170116-02 Solid

Collected by: Adam P | Collected date/time: 12/11/19 11:05 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:25	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:39	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 21:57	JDG	Mt. Juliet, TN

B-1-SS-9.0 L1170116-03 Solid

Collected by: Adam P | Collected date/time: 12/11/19 11:10 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:27	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:42	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 22:11	JDG	Mt. Juliet, TN

B-2-SS-1.0 L1170116-04 Solid

Collected by: Adam P | Collected date/time: 12/11/19 11:30 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:29	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:44	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 02:03	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1396175	1	12/13/19 16:00	12/14/19 10:35	LEL	Mt. Juliet, TN

B-2-SS-3.0 L1170116-05 Solid

Collected by: Adam P | Collected date/time: 12/11/19 11:45 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:32	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:47	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 00:51	JDG	Mt. Juliet, TN

B-2-SS-9.0 L1170116-06 Solid

Collected by: Adam P | Collected date/time: 12/11/19 11:55 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:38	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:50	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 22:26	JDG	Mt. Juliet, TN

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B-3-SS-1.0 L1170116-07 Solid

Collected by: Adam P | Collected date/time: 12/11/19 08:25 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396075	1	12/14/19 13:46	12/14/19 13:55	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:40	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:52	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1396752	1	12/11/19 08:25	12/15/19 07:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1396623	1	12/11/19 08:25	12/15/19 05:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 01:05	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1396175	1	12/13/19 16:00	12/14/19 10:47	LEL	Mt. Juliet, TN

B-3-SS-3.0 L1170116-08 Solid

Collected by: Adam P | Collected date/time: 12/11/19 08:35 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:43	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:55	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 23:09	JDG	Mt. Juliet, TN

B-3-SS-9.0 L1170116-09 Solid

Collected by: Adam P | Collected date/time: 12/11/19 08:50 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:45	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 15:57	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 23:24	JDG	Mt. Juliet, TN

B-4-SS-1.0 L1170116-10 Solid

Collected by: Adam P | Collected date/time: 12/11/19 09:00 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:47	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:00	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1396752	1	12/11/19 09:00	12/15/19 08:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1396623	1.04	12/11/19 09:00	12/15/19 05:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 01:34	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1396175	1	12/13/19 16:00	12/14/19 11:00	LEL	Mt. Juliet, TN

B-4-SS-3.0 L1170116-11 Solid

Collected by: Adam P | Collected date/time: 12/11/19 09:15 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396021	1	12/13/19 09:59	12/16/19 11:49	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:02	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 01:49	JDG	Mt. Juliet, TN

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B-4-SS-9.0 L1170116-12 Solid

Collected by: Adam P | Collected date/time: 12/11/19 09:40 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396619	1	12/14/19 20:20	12/16/19 19:36	TCT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:10	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 23:38	JDG	Mt. Juliet, TN

B-5-SS-1.0 L1170116-13 Solid

Collected by: Adam P | Collected date/time: 12/11/19 09:50 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396619	1	12/14/19 20:20	12/16/19 19:38	TCT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:13	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1396752	1	12/11/19 09:50	12/15/19 08:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1396623	1	12/11/19 09:50	12/15/19 05:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	2	12/13/19 15:49	12/15/19 14:32	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1396175	1	12/13/19 16:00	12/14/19 11:12	LEL	Mt. Juliet, TN

B-5-SS-3.0 L1170116-14 Solid

Collected by: Adam P | Collected date/time: 12/11/19 09:55 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396619	1	12/14/19 20:20	12/16/19 19:45	TCT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:15	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/15/19 02:18	JDG	Mt. Juliet, TN

B-5-SS-9.0 L1170116-15 Solid

Collected by: Adam P | Collected date/time: 12/11/19 10:05 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1396077	1	12/14/19 13:37	12/14/19 13:45	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1396619	1	12/14/19 20:20	12/16/19 19:47	TCT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1395913	1	12/13/19 08:44	12/14/19 16:18	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1395893	1	12/13/19 15:49	12/14/19 23:53	JDG	Mt. Juliet, TN

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1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

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Mercury by Method 7471A

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-1-SS-1.0	L1170116-01	Mercury	0.160		0.00345	0.0369	1	12/16/2019 11:23	WG1396021
B-1-SS-3.0	L1170116-02	Mercury	0.0514		0.00349	0.0374	1	12/16/2019 11:25	WG1396021
B-1-SS-9.0	L1170116-03	Mercury	0.0308	J	0.00322	0.0345	1	12/16/2019 11:27	WG1396021
B-2-SS-1.0	L1170116-04	Mercury	0.311		0.00341	0.0365	1	12/16/2019 11:29	WG1396021
B-2-SS-3.0	L1170116-05	Mercury	0.211		0.00339	0.0363	1	12/16/2019 11:32	WG1396021
B-2-SS-9.0	L1170116-06	Mercury	0.0475		0.00347	0.0372	1	12/16/2019 11:38	WG1396021
B-3-SS-1.0	L1170116-07	Mercury	0.0259	J	0.00356	0.0381	1	12/16/2019 11:40	WG1396021
B-3-SS-3.0	L1170116-08	Mercury	0.0272	J	0.00346	0.0370	1	12/16/2019 11:43	WG1396021
B-3-SS-9.0	L1170116-09	Mercury	0.0372	J	0.00347	0.0372	1	12/16/2019 11:45	WG1396021
B-4-SS-1.0	L1170116-10	Mercury	0.0320	J	0.00352	0.0377	1	12/16/2019 11:47	WG1396021
B-4-SS-3.0	L1170116-11	Mercury	0.0418		0.00337	0.0361	1	12/16/2019 11:49	WG1396021
B-4-SS-9.0	L1170116-12	Mercury	0.0376		0.00331	0.0354	1	12/16/2019 19:36	WG1396619
B-5-SS-1.0	L1170116-13	Mercury	0.0637		0.00329	0.0352	1	12/16/2019 19:38	WG1396619
B-5-SS-3.0	L1170116-14	Mercury	0.0286	J	0.00328	0.0351	1	12/16/2019 19:45	WG1396619
B-5-SS-9.0	L1170116-15	Mercury	0.0269	J	0.00328	0.0351	1	12/16/2019 19:47	WG1396619

Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-1-SS-1.0	L1170116-01	Antimony	1.25	J	0.924	2.46	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Arsenic	4.88		0.566	2.46	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Barium	185		0.209	0.616	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Beryllium	0.756		0.0862	0.246	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Cadmium	0.109	J	0.0862	0.616	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Chromium	64.2		0.172	1.23	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Cobalt	47.0		0.283	1.23	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Copper	21.2		0.653	2.46	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Lead	6.83		0.234	0.616	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Molybdenum	1.27		0.197	0.616	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Nickel	44.5		0.603	2.46	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Vanadium	77.9		0.296	2.46	1	12/14/2019 15:31	WG1395913
B-1-SS-1.0	L1170116-01	Zinc	41.7		0.727	6.16	1	12/14/2019 15:31	WG1395913
B-1-SS-3.0	L1170116-02	Antimony	1.31	J	0.935	2.49	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Arsenic	4.09		0.574	2.49	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Barium	187		0.212	0.623	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Beryllium	0.747		0.0873	0.249	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Cadmium	0.178	J	0.0873	0.623	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Chromium	70.1		0.175	1.25	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Cobalt	14.4		0.287	1.25	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Copper	25.5		0.661	2.49	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Lead	4.29	B	0.237	0.623	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Molybdenum	0.380	J	0.199	0.623	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Nickel	71.6		0.611	2.49	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Vanadium	84.9		0.299	2.49	1	12/14/2019 15:39	WG1395913
B-1-SS-3.0	L1170116-02	Zinc	57.6		0.736	6.23	1	12/14/2019 15:39	WG1395913
B-1-SS-9.0	L1170116-03	Antimony	0.978	J	0.864	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Arsenic	10.7		0.530	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Barium	159		0.196	0.576	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Beryllium	0.433		0.0806	0.230	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Cadmium	0.270	J	0.0806	0.576	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Chromium	61.2		0.161	1.15	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Cobalt	16.7		0.265	1.15	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Copper	32.3		0.610	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Lead	5.55		0.219	0.576	1	12/14/2019 15:42	WG1395913

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Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-1-SS-9.0	L1170116-03	Antimony	0.978	J	0.864	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Arsenic	10.7		0.530	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Barium	159		0.196	0.576	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Beryllium	0.433		0.0806	0.230	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Cadmium	0.270	J	0.0806	0.576	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Molybdenum	0.505	J	0.184	0.576	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Nickel	46.8		0.564	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Vanadium	89.9		0.276	2.30	1	12/14/2019 15:42	WG1395913
B-1-SS-9.0	L1170116-03	Zinc	66.7		0.679	5.76	1	12/14/2019 15:42	WG1395913
B-2-SS-1.0	L1170116-04	Antimony	0.929	J	0.913	2.44	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Arsenic	2.47		0.560	2.44	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Barium	177		0.207	0.609	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Beryllium	0.430		0.0852	0.244	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Cadmium	0.245	J	0.0852	0.609	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Chromium	38.0		0.170	1.22	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Cobalt	9.72		0.280	1.22	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Copper	20.9		0.645	2.44	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Lead	71.9		0.231	0.609	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Molybdenum	0.360	J	0.195	0.609	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Nickel	29.8		0.597	2.44	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Vanadium	43.9		0.292	2.44	1	12/14/2019 15:44	WG1395913
B-2-SS-1.0	L1170116-04	Zinc	78.9		0.718	6.09	1	12/14/2019 15:44	WG1395913
B-2-SS-3.0	L1170116-05	Antimony	1.00	J	0.907	2.42	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Arsenic	2.46		0.557	2.42	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Barium	130		0.206	0.605	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Beryllium	0.568		0.0847	0.242	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Cadmium	0.173	J	0.0847	0.605	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Chromium	66.7		0.169	1.21	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Cobalt	9.21		0.278	1.21	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Copper	23.2		0.641	2.42	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Lead	3.80	B	0.230	0.605	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Molybdenum	0.302	J	0.194	0.605	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Nickel	49.8		0.593	2.42	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Vanadium	56.4		0.290	2.42	1	12/14/2019 15:47	WG1395913
B-2-SS-3.0	L1170116-05	Zinc	48.1		0.714	6.05	1	12/14/2019 15:47	WG1395913
B-2-SS-9.0	L1170116-06	Antimony	1.18	J	0.931	2.48	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Arsenic	4.99		0.571	2.48	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Barium	163		0.211	0.620	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Beryllium	0.557		0.0869	0.248	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Cadmium	0.156	J	0.0869	0.620	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Chromium	67.8		0.174	1.24	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Cobalt	19.1		0.285	1.24	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Copper	27.3		0.658	2.48	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Lead	6.01		0.236	0.620	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Molybdenum	0.523	J	0.199	0.620	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Nickel	77.3		0.608	2.48	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Vanadium	73.2		0.298	2.48	1	12/14/2019 15:50	WG1395913
B-2-SS-9.0	L1170116-06	Zinc	53.3		0.732	6.20	1	12/14/2019 15:50	WG1395913

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Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-3-SS-1.0	L1170116-07	Arsenic	1.49	J	0.584	2.54	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Barium	163		0.216	0.635	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Beryllium	0.668		0.0889	0.254	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Cadmium	0.0897	J	0.0889	0.635	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Chromium	68.3		0.178	1.27	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Cobalt	11.5		0.292	1.27	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Copper	25.9		0.673	2.54	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Lead	5.44		0.241	0.635	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Nickel	54.2		0.622	2.54	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Vanadium	63.6		0.305	2.54	1	12/14/2019 15:52	WG1395913
B-3-SS-1.0	L1170116-07	Zinc	47.6		0.749	6.35	1	12/14/2019 15:52	WG1395913
B-3-SS-3.0	L1170116-08	Barium	361		0.210	0.617	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Beryllium	0.574		0.0864	0.247	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Cadmium	0.104	J	0.0864	0.617	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Chromium	56.1		0.173	1.23	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Cobalt	7.70		0.284	1.23	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Copper	20.2		0.654	2.47	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Lead	4.62		0.234	0.617	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Nickel	54.2		0.605	2.47	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Vanadium	42.2		0.296	2.47	1	12/14/2019 15:55	WG1395913
B-3-SS-3.0	L1170116-08	Zinc	45.3		0.728	6.17	1	12/14/2019 15:55	WG1395913
B-3-SS-9.0	L1170116-09	Antimony	1.55	J	0.929	2.48	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Arsenic	6.06		0.570	2.48	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Barium	124		0.211	0.619	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Beryllium	0.421		0.0867	0.248	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Cadmium	0.200	J	0.0867	0.619	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Chromium	53.2		0.173	1.24	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Cobalt	15.3		0.285	1.24	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Copper	24.1		0.657	2.48	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Lead	5.72		0.235	0.619	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Molybdenum	0.394	J	0.198	0.619	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Nickel	58.1		0.607	2.48	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Vanadium	64.7		0.297	2.48	1	12/14/2019 15:57	WG1395913
B-3-SS-9.0	L1170116-09	Zinc	52.2		0.731	6.19	1	12/14/2019 15:57	WG1395913
B-4-SS-1.0	L1170116-10	Arsenic	1.99	J	0.578	2.51	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Barium	247		0.214	0.628	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Beryllium	0.714		0.0879	0.251	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Cadmium	0.183	J	0.0879	0.628	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Chromium	69.2		0.176	1.26	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Cobalt	12.4		0.289	1.26	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Copper	26.3		0.666	2.51	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Lead	8.02		0.239	0.628	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Nickel	49.9		0.615	2.51	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Vanadium	66.6		0.301	2.51	1	12/14/2019 16:00	WG1395913
B-4-SS-1.0	L1170116-10	Zinc	41.9		0.741	6.28	1	12/14/2019 16:00	WG1395913
B-4-SS-3.0	L1170116-11	Barium	257		0.205	0.602	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Beryllium	0.517		0.0843	0.241	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Cadmium	0.141	J	0.0843	0.602	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Chromium	67.2		0.169	1.20	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Cobalt	11.3		0.277	1.20	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Copper	21.4		0.638	2.41	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Lead	4.76		0.229	0.602	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Nickel	61.0		0.590	2.41	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Vanadium	54.8		0.289	2.41	1	12/14/2019 16:02	WG1395913
B-4-SS-3.0	L1170116-11	Zinc	60.2		0.710	6.02	1	12/14/2019 16:02	WG1395913

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Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-4-SS-9.0	L1170116-12	Arsenic	2.41		0.543	2.36	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Barium	158		0.201	0.591	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Beryllium	0.455		0.0827	0.236	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Cadmium	0.240	J	0.0827	0.591	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Chromium	55.5		0.165	1.18	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Cobalt	26.2		0.272	1.18	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Copper	21.9		0.626	2.36	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Lead	6.26		0.224	0.591	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Molybdenum	0.277	J	0.189	0.591	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Nickel	87.5		0.579	2.36	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Vanadium	54.9		0.284	2.36	1	12/14/2019 16:10	WG1395913
B-4-SS-9.0	L1170116-12	Zinc	38.0		0.697	5.91	1	12/14/2019 16:10	WG1395913
B-5-SS-1.0	L1170116-13	Antimony	1.30	J	0.881	2.35	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Arsenic	1.84	J	0.540	2.35	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Barium	133		0.200	0.587	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Beryllium	0.489		0.0822	0.235	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Cadmium	0.127	J	0.0822	0.587	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Chromium	63.3		0.164	1.17	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Cobalt	12.0		0.270	1.17	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Copper	20.5		0.622	2.35	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Lead	16.5		0.223	0.587	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Nickel	57.0		0.575	2.35	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Vanadium	49.3		0.282	2.35	1	12/14/2019 16:13	WG1395913
B-5-SS-1.0	L1170116-13	Zinc	46.2		0.693	5.87	1	12/14/2019 16:13	WG1395913
B-5-SS-3.0	L1170116-14	Antimony	0.936	J	0.878	2.34	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Arsenic	3.40		0.539	2.34	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Barium	111		0.199	0.585	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Beryllium	0.404		0.0820	0.234	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Cadmium	0.162	J	0.0820	0.585	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Chromium	54.0		0.164	1.17	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Cobalt	10.7		0.269	1.17	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Copper	20.1		0.620	2.34	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Lead	5.61		0.222	0.585	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Nickel	41.9		0.574	2.34	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Vanadium	45.4		0.281	2.34	1	12/14/2019 16:15	WG1395913
B-5-SS-3.0	L1170116-14	Zinc	39.9		0.691	5.85	1	12/14/2019 16:15	WG1395913
B-5-SS-9.0	L1170116-15	Antimony	1.27	J	0.878	2.34	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Arsenic	3.76		0.539	2.34	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Barium	124		0.199	0.586	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Beryllium	0.521		0.0820	0.234	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Cadmium	0.124	J	0.0820	0.586	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Chromium	60.1		0.164	1.17	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Cobalt	14.6		0.269	1.17	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Copper	20.0		0.621	2.34	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Lead	6.78		0.223	0.586	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Molybdenum	0.349	J	0.187	0.586	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Nickel	67.0		0.574	2.34	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Vanadium	60.1		0.281	2.34	1	12/14/2019 16:18	WG1395913
B-5-SS-9.0	L1170116-15	Zinc	40.6		0.691	5.86	1	12/14/2019 16:18	WG1395913

Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-3-SS-1.0	L1170116-07	TPHG C5 - C12	0.0514	B J	0.0422	0.127	1	12/15/2019 07:49	WG1396752

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Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-4-SS-1.0	L1170116-10	TPHG C5 - C12	0.0762	B J	0.0417	0.126	1	12/15/2019 08:11	WG1396752
B-5-SS-1.0	L1170116-13	TPHG C5 - C12	0.180	B	0.0390	0.117	1	12/15/2019 08:33	WG1396752

Volatile Organic Compounds (GC/MS) by Method 8260B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-3-SS-1.0	L1170116-07	Acetone	0.0704		0.0174	0.0317	1	12/15/2019 05:09	WG1396623
B-3-SS-1.0	L1170116-07	Benzene	0.00177		0.000508	0.00127	1	12/15/2019 05:09	WG1396623
B-3-SS-1.0	L1170116-07	2-Butanone (MEK)	0.0324	B	0.0159	0.0317	1	12/15/2019 05:09	WG1396623
B-3-SS-1.0	L1170116-07	Toluene	0.0169		0.00159	0.00635	1	12/15/2019 05:09	WG1396623
B-4-SS-1.0	L1170116-10	Acetone	0.0406		0.0178	0.0327	1.04	12/15/2019 05:30	WG1396623
B-4-SS-1.0	L1170116-10	2-Butanone (MEK)	0.0264	B J	0.0163	0.0327	1.04	12/15/2019 05:30	WG1396623
B-4-SS-1.0	L1170116-10	Toluene	0.0124		0.00163	0.00653	1.04	12/15/2019 05:30	WG1396623
B-5-SS-1.0	L1170116-13	Acetone	0.0648		0.0161	0.0294	1	12/15/2019 05:50	WG1396623
B-5-SS-1.0	L1170116-13	Benzene	0.000567	J	0.000470	0.00117	1	12/15/2019 05:50	WG1396623
B-5-SS-1.0	L1170116-13	2-Butanone (MEK)	0.0256	B J	0.0147	0.0294	1	12/15/2019 05:50	WG1396623
B-5-SS-1.0	L1170116-13	Toluene	0.0169		0.00147	0.00587	1	12/15/2019 05:50	WG1396623

Semi-Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-2-SS-1.0	L1170116-04	C22-C32 Hydrocarbons	4.18	J	1.62	4.87	1	12/15/2019 02:03	WG1395893
B-2-SS-1.0	L1170116-04	C32-C40 Hydrocarbons	4.53	J	1.62	4.87	1	12/15/2019 02:03	WG1395893
B-2-SS-3.0	L1170116-05	C32-C40 Hydrocarbons	2.13	J	1.61	4.84	1	12/15/2019 00:51	WG1395893
B-2-SS-9.0	L1170116-06	C12-C22 Hydrocarbons	1.87	J	0.910	4.96	1	12/14/2019 22:26	WG1395893
B-2-SS-9.0	L1170116-06	C22-C32 Hydrocarbons	1.92	J	1.65	4.96	1	12/14/2019 22:26	WG1395893
B-3-SS-1.0	L1170116-07	C22-C32 Hydrocarbons	1.77	J	1.69	5.08	1	12/15/2019 01:05	WG1395893
B-4-SS-1.0	L1170116-10	C12-C22 Hydrocarbons	1.65	J	0.921	5.02	1	12/15/2019 01:34	WG1395893
B-4-SS-1.0	L1170116-10	C22-C32 Hydrocarbons	4.41	J	1.67	5.02	1	12/15/2019 01:34	WG1395893
B-4-SS-1.0	L1170116-10	C32-C40 Hydrocarbons	3.49	J	1.67	5.02	1	12/15/2019 01:34	WG1395893
B-5-SS-1.0	L1170116-13	C12-C22 Hydrocarbons	3.15	J	1.73	9.39	2	12/15/2019 14:32	WG1395893
B-5-SS-1.0	L1170116-13	C22-C32 Hydrocarbons	35.0		3.12	9.39	2	12/15/2019 14:32	WG1395893
B-5-SS-1.0	L1170116-13	C32-C40 Hydrocarbons	31.3		3.12	9.39	2	12/15/2019 14:32	WG1395893
B-5-SS-3.0	L1170116-14	C12-C22 Hydrocarbons	0.871	J	0.858	4.68	1	12/15/2019 02:18	WG1395893
B-5-SS-3.0	L1170116-14	C22-C32 Hydrocarbons	4.76		1.56	4.68	1	12/15/2019 02:18	WG1395893
B-5-SS-3.0	L1170116-14	C32-C40 Hydrocarbons	4.21	J	1.56	4.68	1	12/15/2019 02:18	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.2		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.160		0.00345	0.0369	1	12/16/2019 11:23	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.25	J	0.924	2.46	1	12/14/2019 15:31	WG1395913
Arsenic	4.88		0.566	2.46	1	12/14/2019 15:31	WG1395913
Barium	185		0.209	0.616	1	12/14/2019 15:31	WG1395913
Beryllium	0.756		0.0862	0.246	1	12/14/2019 15:31	WG1395913
Cadmium	0.109	J	0.0862	0.616	1	12/14/2019 15:31	WG1395913
Chromium	64.2		0.172	1.23	1	12/14/2019 15:31	WG1395913
Cobalt	47.0		0.283	1.23	1	12/14/2019 15:31	WG1395913
Copper	21.2		0.653	2.46	1	12/14/2019 15:31	WG1395913
Lead	6.83		0.234	0.616	1	12/14/2019 15:31	WG1395913
Molybdenum	1.27		0.197	0.616	1	12/14/2019 15:31	WG1395913
Nickel	44.5		0.603	2.46	1	12/14/2019 15:31	WG1395913
Selenium	U		0.763	2.46	1	12/14/2019 15:31	WG1395913
Silver	U		0.148	1.23	1	12/14/2019 15:31	WG1395913
Thallium	U		0.800	2.46	1	12/14/2019 15:31	WG1395913
Vanadium	77.9		0.296	2.46	1	12/14/2019 15:31	WG1395913
Zinc	41.7		0.727	6.16	1	12/14/2019 15:31	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.903	4.93	1	12/14/2019 21:42	WG1395893
C22-C32 Hydrocarbons	U		1.64	4.93	1	12/14/2019 21:42	WG1395893
C32-C40 Hydrocarbons	U		1.64	4.93	1	12/14/2019 21:42	WG1395893
(S) o-Terphenyl	*65.6*			*18.0-148*		*12/14/2019 21:42*	WG1395893

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000287	0.0246	1	12/14/2019 10:22	WG1396175
Alpha BHC	U		0.000238	0.0246	1	12/14/2019 10:22	WG1396175
Beta BHC	U		0.000373	0.0246	1	12/14/2019 10:22	WG1396175
Delta BHC	U		0.000186	0.0246	1	12/14/2019 10:22	WG1396175
Gamma BHC	U		0.000302	0.0246	1	12/14/2019 10:22	WG1396175
4,4-DDD	U		0.000202	0.0246	1	12/14/2019 10:22	WG1396175
4,4-DDE	U		0.000203	0.0246	1	12/14/2019 10:22	WG1396175
4,4-DDT	U		0.000328	0.0246	1	12/14/2019 10:22	WG1396175
Dieldrin	U		0.000110	0.00246	1	12/14/2019 10:22	WG1396175
Endosulfan I	U		0.000264	0.0246	1	12/14/2019 10:22	WG1396175
Endosulfan II	U		0.000283	0.0246	1	12/14/2019 10:22	WG1396175
Endosulfan sulfate	U		0.000209	0.0246	1	12/14/2019 10:22	WG1396175
Endrin	U		0.000270	0.0246	1	12/14/2019 10:22	WG1396175
Endrin aldehyde	U		0.000298	0.0246	1	12/14/2019 10:22	WG1396175
Endrin ketone	U		0.000196	0.0246	1	12/14/2019 10:22	WG1396175
Heptachlor	U		0.000124	0.0246	1	12/14/2019 10:22	WG1396175

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Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Heptachlor epoxide	U		0.000465	0.0246	1	12/14/2019 10:22	WG1396175
Hexachlorobenzene	U		0.000276	0.0246	1	12/14/2019 10:22	WG1396175
Methoxychlor	U		0.000326	0.0246	1	12/14/2019 10:22	WG1396175
Chlordane	U		0.0480	0.246	1	12/14/2019 10:22	WG1396175
Toxaphene	U		0.0443	0.493	1	12/14/2019 10:22	WG1396175
(S) Decachlorobiphenyl	*72.0*			*10.0-135*		*12/14/2019 10:22*	WG1396175
(S) Tetrachloro-m-xylene	*75.0*			*10.0-139*		*12/14/2019 10:22*	WG1396175

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.2		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0514		0.00349	0.0374	1	12/16/2019 11:25	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.31	J	0.935	2.49	1	12/14/2019 15:39	WG1395913
Arsenic	4.09		0.574	2.49	1	12/14/2019 15:39	WG1395913
Barium	187		0.212	0.623	1	12/14/2019 15:39	WG1395913
Beryllium	0.747		0.0873	0.249	1	12/14/2019 15:39	WG1395913
Cadmium	0.178	J	0.0873	0.623	1	12/14/2019 15:39	WG1395913
Chromium	70.1		0.175	1.25	1	12/14/2019 15:39	WG1395913
Cobalt	14.4		0.287	1.25	1	12/14/2019 15:39	WG1395913
Copper	25.5		0.661	2.49	1	12/14/2019 15:39	WG1395913
Lead	4.29	B	0.237	0.623	1	12/14/2019 15:39	WG1395913
Molybdenum	0.380	J	0.199	0.623	1	12/14/2019 15:39	WG1395913
Nickel	71.6		0.611	2.49	1	12/14/2019 15:39	WG1395913
Selenium	U		0.773	2.49	1	12/14/2019 15:39	WG1395913
Silver	U		0.150	1.25	1	12/14/2019 15:39	WG1395913
Thallium	U		0.810	2.49	1	12/14/2019 15:39	WG1395913
Vanadium	84.9		0.299	2.49	1	12/14/2019 15:39	WG1395913
Zinc	57.6		0.736	6.23	1	12/14/2019 15:39	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.914	4.99	1	12/14/2019 21:57	WG1395893
C22-C32 Hydrocarbons	U		1.66	4.99	1	12/14/2019 21:57	WG1395893
C32-C40 Hydrocarbons	U		1.66	4.99	1	12/14/2019 21:57	WG1395893
(S) o-Terphenyl	*75.1*			*18.0-148*		*12/14/2019 21:57*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.8		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0308	J	0.00322	0.0345	1	12/16/2019 11:27	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.978	J	0.864	2.30	1	12/14/2019 15:42	WG1395913
Arsenic	10.7		0.530	2.30	1	12/14/2019 15:42	WG1395913
Barium	159		0.196	0.576	1	12/14/2019 15:42	WG1395913
Beryllium	0.433		0.0806	0.230	1	12/14/2019 15:42	WG1395913
Cadmium	0.270	J	0.0806	0.576	1	12/14/2019 15:42	WG1395913
Chromium	61.2		0.161	1.15	1	12/14/2019 15:42	WG1395913
Cobalt	16.7		0.265	1.15	1	12/14/2019 15:42	WG1395913
Copper	32.3		0.610	2.30	1	12/14/2019 15:42	WG1395913
Lead	5.55		0.219	0.576	1	12/14/2019 15:42	WG1395913
Molybdenum	0.505	J	0.184	0.576	1	12/14/2019 15:42	WG1395913
Nickel	46.8		0.564	2.30	1	12/14/2019 15:42	WG1395913
Selenium	U		0.714	2.30	1	12/14/2019 15:42	WG1395913
Silver	U		0.138	1.15	1	12/14/2019 15:42	WG1395913
Thallium	U		0.749	2.30	1	12/14/2019 15:42	WG1395913
Vanadium	89.9		0.276	2.30	1	12/14/2019 15:42	WG1395913
Zinc	66.7		0.679	5.76	1	12/14/2019 15:42	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.844	4.61	1	12/14/2019 22:11	WG1395893
C22-C32 Hydrocarbons	U		1.53	4.61	1	12/14/2019 22:11	WG1395893
C32-C40 Hydrocarbons	U		1.53	4.61	1	12/14/2019 22:11	WG1395893
(S) o-Terphenyl	*86.8*			*18.0-148*		*12/14/2019 22:11*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.1		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.311		0.00341	0.0365	1	12/16/2019 11:29	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.929	J	0.913	2.44	1	12/14/2019 15:44	WG1395913
Arsenic	2.47		0.560	2.44	1	12/14/2019 15:44	WG1395913
Barium	177		0.207	0.609	1	12/14/2019 15:44	WG1395913
Beryllium	0.430		0.0852	0.244	1	12/14/2019 15:44	WG1395913
Cadmium	0.245	J	0.0852	0.609	1	12/14/2019 15:44	WG1395913
Chromium	38.0		0.170	1.22	1	12/14/2019 15:44	WG1395913
Cobalt	9.72		0.280	1.22	1	12/14/2019 15:44	WG1395913
Copper	20.9		0.645	2.44	1	12/14/2019 15:44	WG1395913
Lead	71.9		0.231	0.609	1	12/14/2019 15:44	WG1395913
Molybdenum	0.360	J	0.195	0.609	1	12/14/2019 15:44	WG1395913
Nickel	29.8		0.597	2.44	1	12/14/2019 15:44	WG1395913
Selenium	U		0.755	2.44	1	12/14/2019 15:44	WG1395913
Silver	U		0.146	1.22	1	12/14/2019 15:44	WG1395913
Thallium	U		0.791	2.44	1	12/14/2019 15:44	WG1395913
Vanadium	43.9		0.292	2.44	1	12/14/2019 15:44	WG1395913
Zinc	78.9		0.718	6.09	1	12/14/2019 15:44	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.892	4.87	1	12/15/2019 02:03	WG1395893
C22-C32 Hydrocarbons	4.18	J	1.62	4.87	1	12/15/2019 02:03	WG1395893
C32-C40 Hydrocarbons	4.53	J	1.62	4.87	1	12/15/2019 02:03	WG1395893
(S) o-Terphenyl	*77.2*			*18.0-148*		*12/15/2019 02:03*	WG1395893

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000284	0.0244	1	12/14/2019 10:35	WG1396175
Alpha BHC	U		0.000235	0.0244	1	12/14/2019 10:35	WG1396175
Beta BHC	U		0.000369	0.0244	1	12/14/2019 10:35	WG1396175
Delta BHC	U		0.000184	0.0244	1	12/14/2019 10:35	WG1396175
Gamma BHC	U		0.000298	0.0244	1	12/14/2019 10:35	WG1396175
4,4-DDD	U		0.000200	0.0244	1	12/14/2019 10:35	WG1396175
4,4-DDE	U		0.000201	0.0244	1	12/14/2019 10:35	WG1396175
4,4-DDT	U		0.000324	0.0244	1	12/14/2019 10:35	WG1396175
Dieldrin	U		0.000108	0.00244	1	12/14/2019 10:35	WG1396175
Endosulfan I	U		0.000261	0.0244	1	12/14/2019 10:35	WG1396175
Endosulfan II	U		0.000280	0.0244	1	12/14/2019 10:35	WG1396175
Endosulfan sulfate	U		0.000207	0.0244	1	12/14/2019 10:35	WG1396175
Endrin	U		0.000267	0.0244	1	12/14/2019 10:35	WG1396175
Endrin aldehyde	U		0.000295	0.0244	1	12/14/2019 10:35	WG1396175
Endrin ketone	U		0.000194	0.0244	1	12/14/2019 10:35	WG1396175
Heptachlor	U		0.000123	0.0244	1	12/14/2019 10:35	WG1396175

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Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Heptachlor epoxide	U		0.000460	0.0244	1	12/14/2019 10:35	WG1396175
Hexachlorobenzene	U		0.000273	0.0244	1	12/14/2019 10:35	WG1396175
Methoxychlor	U		0.000323	0.0244	1	12/14/2019 10:35	WG1396175
Chlordane	U		0.0475	0.244	1	12/14/2019 10:35	WG1396175
Toxaphene	U		0.0438	0.487	1	12/14/2019 10:35	WG1396175
(S) Decachlorobiphenyl	*56.4*			*10.0-135*		*12/14/2019 10:35*	WG1396175
(S) Tetrachloro-m-xylene	*54.7*			*10.0-139*		*12/14/2019 10:35*	WG1396175

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.211		0.00339	0.0363	1	12/16/2019 11:32	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.00	J	0.907	2.42	1	12/14/2019 15:47	WG1395913
Arsenic	2.46		0.557	2.42	1	12/14/2019 15:47	WG1395913
Barium	130		0.206	0.605	1	12/14/2019 15:47	WG1395913
Beryllium	0.568		0.0847	0.242	1	12/14/2019 15:47	WG1395913
Cadmium	0.173	J	0.0847	0.605	1	12/14/2019 15:47	WG1395913
Chromium	66.7		0.169	1.21	1	12/14/2019 15:47	WG1395913
Cobalt	9.21		0.278	1.21	1	12/14/2019 15:47	WG1395913
Copper	23.2		0.641	2.42	1	12/14/2019 15:47	WG1395913
Lead	3.80	B	0.230	0.605	1	12/14/2019 15:47	WG1395913
Molybdenum	0.302	J	0.194	0.605	1	12/14/2019 15:47	WG1395913
Nickel	49.8		0.593	2.42	1	12/14/2019 15:47	WG1395913
Selenium	U		0.750	2.42	1	12/14/2019 15:47	WG1395913
Silver	U		0.145	1.21	1	12/14/2019 15:47	WG1395913
Thallium	U		0.786	2.42	1	12/14/2019 15:47	WG1395913
Vanadium	56.4		0.290	2.42	1	12/14/2019 15:47	WG1395913
Zinc	48.1		0.714	6.05	1	12/14/2019 15:47	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.887	4.84	1	12/15/2019 00:51	WG1395893
C22-C32 Hydrocarbons	U		1.61	4.84	1	12/15/2019 00:51	WG1395893
C32-C40 Hydrocarbons	2.13	J	1.61	4.84	1	12/15/2019 00:51	WG1395893
(S) o-Terphenyl	*74.1*			*18.0-148*		*12/15/2019 00:51*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0475		0.00347	0.0372	1	12/16/2019 11:38	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.18	J	0.931	2.48	1	12/14/2019 15:50	WG1395913
Arsenic	4.99		0.571	2.48	1	12/14/2019 15:50	WG1395913
Barium	163		0.211	0.620	1	12/14/2019 15:50	WG1395913
Beryllium	0.557		0.0869	0.248	1	12/14/2019 15:50	WG1395913
Cadmium	0.156	J	0.0869	0.620	1	12/14/2019 15:50	WG1395913
Chromium	67.8		0.174	1.24	1	12/14/2019 15:50	WG1395913
Cobalt	19.1		0.285	1.24	1	12/14/2019 15:50	WG1395913
Copper	27.3		0.658	2.48	1	12/14/2019 15:50	WG1395913
Lead	6.01		0.236	0.620	1	12/14/2019 15:50	WG1395913
Molybdenum	0.523	J	0.199	0.620	1	12/14/2019 15:50	WG1395913
Nickel	77.3		0.608	2.48	1	12/14/2019 15:50	WG1395913
Selenium	U		0.769	2.48	1	12/14/2019 15:50	WG1395913
Silver	U		0.149	1.24	1	12/14/2019 15:50	WG1395913
Thallium	U		0.807	2.48	1	12/14/2019 15:50	WG1395913
Vanadium	73.2		0.298	2.48	1	12/14/2019 15:50	WG1395913
Zinc	53.3		0.732	6.20	1	12/14/2019 15:50	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1.87	J	0.910	4.96	1	12/14/2019 22:26	WG1395893
C22-C32 Hydrocarbons	1.92	J	1.65	4.96	1	12/14/2019 22:26	WG1395893
C32-C40 Hydrocarbons	U		1.65	4.96	1	12/14/2019 22:26	WG1395893
(S) o-Terphenyl	*82.5*			*18.0-148*		*12/14/2019 22:26*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	12/14/2019 13:55	WG1396075

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0259	J	0.00356	0.0381	1	12/16/2019 11:40	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.952	2.54	1	12/14/2019 15:52	WG1395913
Arsenic	1.49	J	0.584	2.54	1	12/14/2019 15:52	WG1395913
Barium	163		0.216	0.635	1	12/14/2019 15:52	WG1395913
Beryllium	0.668		0.0889	0.254	1	12/14/2019 15:52	WG1395913
Cadmium	0.0897	J	0.0889	0.635	1	12/14/2019 15:52	WG1395913
Chromium	68.3		0.178	1.27	1	12/14/2019 15:52	WG1395913
Cobalt	11.5		0.292	1.27	1	12/14/2019 15:52	WG1395913
Copper	25.9		0.673	2.54	1	12/14/2019 15:52	WG1395913
Lead	5.44		0.241	0.635	1	12/14/2019 15:52	WG1395913
Molybdenum	U		0.203	0.635	1	12/14/2019 15:52	WG1395913
Nickel	54.2		0.622	2.54	1	12/14/2019 15:52	WG1395913
Selenium	U		0.787	2.54	1	12/14/2019 15:52	WG1395913
Silver	U		0.152	1.27	1	12/14/2019 15:52	WG1395913
Thallium	U		0.825	2.54	1	12/14/2019 15:52	WG1395913
Vanadium	63.6		0.305	2.54	1	12/14/2019 15:52	WG1395913
Zinc	47.6		0.749	6.35	1	12/14/2019 15:52	WG1395913

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0514	B J	0.0422	0.127	1	12/15/2019 07:49	WG1396752
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/15/2019 07:49*	WG1396752

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0704		0.0174	0.0317	1	12/15/2019 05:09	WG1396623
Acrylonitrile	U		0.00241	0.0159	1	12/15/2019 05:09	WG1396623
Benzene	0.00177		0.000508	0.00127	1	12/15/2019 05:09	WG1396623
Bromobenzene	U		0.00133	0.0159	1	12/15/2019 05:09	WG1396623
Bromodichloromethane	U		0.00100	0.00317	1	12/15/2019 05:09	WG1396623
Bromoform	U		0.00759	0.0317	1	12/15/2019 05:09	WG1396623
Bromomethane	U		0.00470	0.0159	1	12/15/2019 05:09	WG1396623
n-Butylbenzene	U		0.00488	0.0159	1	12/15/2019 05:09	WG1396623
sec-Butylbenzene	U		0.00321	0.0159	1	12/15/2019 05:09	WG1396623
tert-Butylbenzene	U		0.00197	0.00635	1	12/15/2019 05:09	WG1396623
Carbon tetrachloride	U		0.00137	0.00635	1	12/15/2019 05:09	WG1396623
Chlorobenzene	U		0.000728	0.00317	1	12/15/2019 05:09	WG1396623
Chlorodibromomethane	U		0.000571	0.00317	1	12/15/2019 05:09	WG1396623
Chloroethane	U		0.00137	0.00635	1	12/15/2019 05:09	WG1396623
Chloroform	U		0.000527	0.00317	1	12/15/2019 05:09	WG1396623
Chloromethane	U	J4	0.00177	0.0159	1	12/15/2019 05:09	WG1396623
2-Chlorotoluene	U		0.00117	0.00317	1	12/15/2019 05:09	WG1396623
4-Chlorotoluene	U		0.00144	0.00635	1	12/15/2019 05:09	WG1396623

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00648	0.0317	1	12/15/2019 05:09	WG1396623
1,2-Dibromoethane	U		0.000667	0.00317	1	12/15/2019 05:09	WG1396623
Dibromomethane	U		0.00127	0.00635	1	12/15/2019 05:09	WG1396623
1,2-Dichlorobenzene	U		0.00184	0.00635	1	12/15/2019 05:09	WG1396623
1,3-Dichlorobenzene	U		0.00216	0.00635	1	12/15/2019 05:09	WG1396623
1,4-Dichlorobenzene	U		0.00250	0.00635	1	12/15/2019 05:09	WG1396623
Dichlorodifluoromethane	U		0.00104	0.00317	1	12/15/2019 05:09	WG1396623
1,1-Dichloroethane	U		0.000730	0.00317	1	12/15/2019 05:09	WG1396623
1,2-Dichloroethane	U		0.000603	0.00317	1	12/15/2019 05:09	WG1396623
1,1-Dichloroethene	U		0.000635	0.00317	1	12/15/2019 05:09	WG1396623
cis-1,2-Dichloroethene	U		0.000876	0.00317	1	12/15/2019 05:09	WG1396623
trans-1,2-Dichloroethene	U		0.00182	0.00635	1	12/15/2019 05:09	WG1396623
1,2-Dichloropropane	U	J4	0.00161	0.00635	1	12/15/2019 05:09	WG1396623
1,1-Dichloropropene	U		0.000889	0.00317	1	12/15/2019 05:09	WG1396623
1,3-Dichloropropane	U		0.00222	0.00635	1	12/15/2019 05:09	WG1396623
cis-1,3-Dichloropropene	U		0.000861	0.00317	1	12/15/2019 05:09	WG1396623
trans-1,3-Dichloropropene	U		0.00194	0.00635	1	12/15/2019 05:09	WG1396623
2,2-Dichloropropane	U	J4	0.00101	0.00317	1	12/15/2019 05:09	WG1396623
Di-isopropyl ether	U	J4	0.000444	0.00127	1	12/15/2019 05:09	WG1396623
Ethylbenzene	U		0.000673	0.00317	1	12/15/2019 05:09	WG1396623
Hexachloro-1,3-butadiene	U		0.0161	0.0317	1	12/15/2019 05:09	WG1396623
Isopropylbenzene	U		0.00110	0.00317	1	12/15/2019 05:09	WG1396623
p-Isopropyltoluene	U		0.00296	0.00635	1	12/15/2019 05:09	WG1396623
2-Butanone (MEK)	0.0324	B	0.0159	0.0317	1	12/15/2019 05:09	WG1396623
Methylene Chloride	U		0.00843	0.0317	1	12/15/2019 05:09	WG1396623
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0317	1	12/15/2019 05:09	WG1396623
Methyl tert-butyl ether	U		0.000375	0.00127	1	12/15/2019 05:09	WG1396623
Naphthalene	U		0.00396	0.0159	1	12/15/2019 05:09	WG1396623
n-Propylbenzene	U		0.00150	0.00635	1	12/15/2019 05:09	WG1396623
Styrene	U		0.00347	0.0159	1	12/15/2019 05:09	WG1396623
1,1,1,2-Tetrachloroethane	U		0.000635	0.00317	1	12/15/2019 05:09	WG1396623
1,1,2,2-Tetrachloroethane	U		0.000495	0.00317	1	12/15/2019 05:09	WG1396623
1,1,2-Trichlorotrifluoroethane	U		0.000857	0.00317	1	12/15/2019 05:09	WG1396623
Tetrachloroethene	U		0.000889	0.00317	1	12/15/2019 05:09	WG1396623
Toluene	0.0169		0.00159	0.00635	1	12/15/2019 05:09	WG1396623
1,2,3-Trichlorobenzene	U		0.000794	0.00317	1	12/15/2019 05:09	WG1396623
1,2,4-Trichlorobenzene	U		0.00612	0.0159	1	12/15/2019 05:09	WG1396623
1,1,1-Trichloroethane	U		0.000349	0.00317	1	12/15/2019 05:09	WG1396623
1,1,2-Trichloroethane	U		0.00112	0.00317	1	12/15/2019 05:09	WG1396623
Trichloroethene	U		0.000508	0.00127	1	12/15/2019 05:09	WG1396623
Trichlorofluoromethane	U		0.000635	0.00317	1	12/15/2019 05:09	WG1396623
1,2,3-Trichloropropane	U		0.00648	0.0159	1	12/15/2019 05:09	WG1396623
1,2,4-Trimethylbenzene	U		0.00147	0.00635	1	12/15/2019 05:09	WG1396623
1,2,3-Trimethylbenzene	U		0.00146	0.00635	1	12/15/2019 05:09	WG1396623
1,3,5-Trimethylbenzene	U		0.00137	0.00635	1	12/15/2019 05:09	WG1396623
Vinyl chloride	U		0.000867	0.00317	1	12/15/2019 05:09	WG1396623
Xylenes, Total	U		0.00607	0.00825	1	12/15/2019 05:09	WG1396623
(S) Toluene-d8	*106*			*75.0-131*		*12/15/2019 05:09*	WG1396623
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*12/15/2019 05:09*	WG1396623
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*12/15/2019 05:09*	WG1396623

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Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	U		0.931	5.08	1	12/15/2019 01:05	WG1395893
C22-C32 Hydrocarbons	1.77	J	1.69	5.08	1	12/15/2019 01:05	WG1395893
C32-C40 Hydrocarbons	U		1.69	5.08	1	12/15/2019 01:05	WG1395893
(S) o-Terphenyl	*65.5*			*18.0-148*		*12/15/2019 01:05*	WG1395893

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.000296	0.0254	1	12/14/2019 10:47	WG1396175
Alpha BHC	U		0.000245	0.0254	1	12/14/2019 10:47	WG1396175
Beta BHC	U		0.000385	0.0254	1	12/14/2019 10:47	WG1396175
Delta BHC	U		0.000192	0.0254	1	12/14/2019 10:47	WG1396175
Gamma BHC	U		0.000311	0.0254	1	12/14/2019 10:47	WG1396175
4,4-DDD	U		0.000208	0.0254	1	12/14/2019 10:47	WG1396175
4,4-DDE	U		0.000210	0.0254	1	12/14/2019 10:47	WG1396175
4,4-DDT	U		0.000338	0.0254	1	12/14/2019 10:47	WG1396175
Dieldrin	U		0.000113	0.00254	1	12/14/2019 10:47	WG1396175
Endosulfan I	U		0.000272	0.0254	1	12/14/2019 10:47	WG1396175
Endosulfan II	U		0.000292	0.0254	1	12/14/2019 10:47	WG1396175
Endosulfan sulfate	U		0.000216	0.0254	1	12/14/2019 10:47	WG1396175
Endrin	U		0.000278	0.0254	1	12/14/2019 10:47	WG1396175
Endrin aldehyde	U		0.000307	0.0254	1	12/14/2019 10:47	WG1396175
Endrin ketone	U		0.000202	0.0254	1	12/14/2019 10:47	WG1396175
Heptachlor	U		0.000128	0.0254	1	12/14/2019 10:47	WG1396175
Heptachlor epoxide	U		0.000480	0.0254	1	12/14/2019 10:47	WG1396175
Hexachlorobenzene	U		0.000284	0.0254	1	12/14/2019 10:47	WG1396175
Methoxychlor	U		0.000337	0.0254	1	12/14/2019 10:47	WG1396175
Chlordane	U		0.0495	0.254	1	12/14/2019 10:47	WG1396175
Toxaphene	U		0.0457	0.508	1	12/14/2019 10:47	WG1396175
(S) Decachlorobiphenyl	*59.3*			*10.0-135*		*12/14/2019 10:47*	WG1396175
(S) Tetrachloro-m-xylene	*64.8*			*10.0-139*		*12/14/2019 10:47*	WG1396175

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0272	J	0.00346	0.0370	1	12/16/2019 11:43	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.926	2.47	1	12/14/2019 15:55	WG1395913
Arsenic	U		0.568	2.47	1	12/14/2019 15:55	WG1395913
Barium	361		0.210	0.617	1	12/14/2019 15:55	WG1395913
Beryllium	0.574		0.0864	0.247	1	12/14/2019 15:55	WG1395913
Cadmium	0.104	J	0.0864	0.617	1	12/14/2019 15:55	WG1395913
Chromium	56.1		0.173	1.23	1	12/14/2019 15:55	WG1395913
Cobalt	7.70		0.284	1.23	1	12/14/2019 15:55	WG1395913
Copper	20.2		0.654	2.47	1	12/14/2019 15:55	WG1395913
Lead	4.62		0.234	0.617	1	12/14/2019 15:55	WG1395913
Molybdenum	U		0.197	0.617	1	12/14/2019 15:55	WG1395913
Nickel	54.2		0.605	2.47	1	12/14/2019 15:55	WG1395913
Selenium	U		0.765	2.47	1	12/14/2019 15:55	WG1395913
Silver	U		0.148	1.23	1	12/14/2019 15:55	WG1395913
Thallium	U		0.802	2.47	1	12/14/2019 15:55	WG1395913
Vanadium	42.2		0.296	2.47	1	12/14/2019 15:55	WG1395913
Zinc	45.3		0.728	6.17	1	12/14/2019 15:55	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.905	4.94	1	12/14/2019 23:09	WG1395893
C22-C32 Hydrocarbons	U		1.64	4.94	1	12/14/2019 23:09	WG1395893
C32-C40 Hydrocarbons	U		1.64	4.94	1	12/14/2019 23:09	WG1395893
(S) o-Terphenyl	*79.7*			*18.0-148*		*12/14/2019 23:09*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0372	J	0.00347	0.0372	1	12/16/2019 11:45	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.55	J	0.929	2.48	1	12/14/2019 15:57	WG1395913
Arsenic	6.06		0.570	2.48	1	12/14/2019 15:57	WG1395913
Barium	124		0.211	0.619	1	12/14/2019 15:57	WG1395913
Beryllium	0.421		0.0867	0.248	1	12/14/2019 15:57	WG1395913
Cadmium	0.200	J	0.0867	0.619	1	12/14/2019 15:57	WG1395913
Chromium	53.2		0.173	1.24	1	12/14/2019 15:57	WG1395913
Cobalt	15.3		0.285	1.24	1	12/14/2019 15:57	WG1395913
Copper	24.1		0.657	2.48	1	12/14/2019 15:57	WG1395913
Lead	5.72		0.235	0.619	1	12/14/2019 15:57	WG1395913
Molybdenum	0.394	J	0.198	0.619	1	12/14/2019 15:57	WG1395913
Nickel	58.1		0.607	2.48	1	12/14/2019 15:57	WG1395913
Selenium	U		0.768	2.48	1	12/14/2019 15:57	WG1395913
Silver	U		0.149	1.24	1	12/14/2019 15:57	WG1395913
Thallium	U		0.805	2.48	1	12/14/2019 15:57	WG1395913
Vanadium	64.7		0.297	2.48	1	12/14/2019 15:57	WG1395913
Zinc	52.2		0.731	6.19	1	12/14/2019 15:57	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.908	4.96	1	12/14/2019 23:24	WG1395893
C22-C32 Hydrocarbons	U		1.65	4.96	1	12/14/2019 23:24	WG1395893
C32-C40 Hydrocarbons	U		1.65	4.96	1	12/14/2019 23:24	WG1395893
(S) o-Terphenyl	*75.8*			*18.0-148*		*12/14/2019 23:24*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0320	J	0.00352	0.0377	1	12/16/2019 11:47	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.942	2.51	1	12/14/2019 16:00	WG1395913
Arsenic	1.99	J	0.578	2.51	1	12/14/2019 16:00	WG1395913
Barium	247		0.214	0.628	1	12/14/2019 16:00	WG1395913
Beryllium	0.714		0.0879	0.251	1	12/14/2019 16:00	WG1395913
Cadmium	0.183	J	0.0879	0.628	1	12/14/2019 16:00	WG1395913
Chromium	69.2		0.176	1.26	1	12/14/2019 16:00	WG1395913
Cobalt	12.4		0.289	1.26	1	12/14/2019 16:00	WG1395913
Copper	26.3		0.666	2.51	1	12/14/2019 16:00	WG1395913
Lead	8.02		0.239	0.628	1	12/14/2019 16:00	WG1395913
Molybdenum	U		0.201	0.628	1	12/14/2019 16:00	WG1395913
Nickel	49.9		0.615	2.51	1	12/14/2019 16:00	WG1395913
Selenium	U		0.779	2.51	1	12/14/2019 16:00	WG1395913
Silver	U		0.151	1.26	1	12/14/2019 16:00	WG1395913
Thallium	U		0.816	2.51	1	12/14/2019 16:00	WG1395913
Vanadium	66.6		0.301	2.51	1	12/14/2019 16:00	WG1395913
Zinc	41.9		0.741	6.28	1	12/14/2019 16:00	WG1395913

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0762	B J	0.0417	0.126	1	12/15/2019 08:11	WG1396752
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/15/2019 08:11*	WG1396752

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0406		0.0178	0.0327	1.04	12/15/2019 05:30	WG1396623
Acrylonitrile	U		0.00249	0.0163	1.04	12/15/2019 05:30	WG1396623
Benzene	U		0.000522	0.00131	1.04	12/15/2019 05:30	WG1396623
Bromobenzene	U		0.00137	0.0163	1.04	12/15/2019 05:30	WG1396623
Bromodichloromethane	U		0.00103	0.00327	1.04	12/15/2019 05:30	WG1396623
Bromoform	U		0.00781	0.0327	1.04	12/15/2019 05:30	WG1396623
Bromomethane	U		0.00484	0.0163	1.04	12/15/2019 05:30	WG1396623
n-Butylbenzene	U		0.00501	0.0163	1.04	12/15/2019 05:30	WG1396623
sec-Butylbenzene	U		0.00330	0.0163	1.04	12/15/2019 05:30	WG1396623
tert-Butylbenzene	U		0.00202	0.00653	1.04	12/15/2019 05:30	WG1396623
Carbon tetrachloride	U		0.00141	0.00653	1.04	12/15/2019 05:30	WG1396623
Chlorobenzene	U		0.000749	0.00327	1.04	12/15/2019 05:30	WG1396623
Chlorodibromomethane	U		0.000588	0.00327	1.04	12/15/2019 05:30	WG1396623
Chloroethane	U		0.00141	0.00653	1.04	12/15/2019 05:30	WG1396623
Chloroform	U		0.000543	0.00327	1.04	12/15/2019 05:30	WG1396623
Chloromethane	U	J4	0.00182	0.0163	1.04	12/15/2019 05:30	WG1396623
2-Chlorotoluene	U		0.00120	0.00327	1.04	12/15/2019 05:30	WG1396623
4-Chlorotoluene	U		0.00148	0.00653	1.04	12/15/2019 05:30	WG1396623

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00666	0.0327	1.04	12/15/2019 05:30	WG1396623
1,2-Dibromoethane	U		0.000686	0.00327	1.04	12/15/2019 05:30	WG1396623
Dibromomethane	U		0.00131	0.00653	1.04	12/15/2019 05:30	WG1396623
1,2-Dichlorobenzene	U		0.00190	0.00653	1.04	12/15/2019 05:30	WG1396623
1,3-Dichlorobenzene	U		0.00222	0.00653	1.04	12/15/2019 05:30	WG1396623
1,4-Dichlorobenzene	U		0.00257	0.00653	1.04	12/15/2019 05:30	WG1396623
Dichlorodifluoromethane	U		0.00107	0.00327	1.04	12/15/2019 05:30	WG1396623
1,1-Dichloroethane	U		0.000751	0.00327	1.04	12/15/2019 05:30	WG1396623
1,2-Dichloroethane	U		0.000620	0.00327	1.04	12/15/2019 05:30	WG1396623
1,1-Dichloroethene	U		0.000653	0.00327	1.04	12/15/2019 05:30	WG1396623
cis-1,2-Dichloroethene	U		0.000902	0.00327	1.04	12/15/2019 05:30	WG1396623
trans-1,2-Dichloroethene	U		0.00187	0.00653	1.04	12/15/2019 05:30	WG1396623
1,2-Dichloropropane	U	J4	0.00166	0.00653	1.04	12/15/2019 05:30	WG1396623
1,1-Dichloropropene	U		0.000914	0.00327	1.04	12/15/2019 05:30	WG1396623
1,3-Dichloropropane	U		0.00229	0.00653	1.04	12/15/2019 05:30	WG1396623
cis-1,3-Dichloropropene	U		0.000885	0.00327	1.04	12/15/2019 05:30	WG1396623
trans-1,3-Dichloropropene	U		0.00200	0.00653	1.04	12/15/2019 05:30	WG1396623
2,2-Dichloropropane	U	J4	0.00104	0.00327	1.04	12/15/2019 05:30	WG1396623
Di-isopropyl ether	U	J4	0.000457	0.00131	1.04	12/15/2019 05:30	WG1396623
Ethylbenzene	U		0.000692	0.00327	1.04	12/15/2019 05:30	WG1396623
Hexachloro-1,3-butadiene	U		0.0166	0.0327	1.04	12/15/2019 05:30	WG1396623
Isopropylbenzene	U		0.00113	0.00327	1.04	12/15/2019 05:30	WG1396623
p-Isopropyltoluene	U		0.00304	0.00653	1.04	12/15/2019 05:30	WG1396623
2-Butanone (MEK)	0.0264	B J	0.0163	0.0327	1.04	12/15/2019 05:30	WG1396623
Methylene Chloride	U		0.00868	0.0327	1.04	12/15/2019 05:30	WG1396623
4-Methyl-2-pentanone (MIBK)	U		0.0131	0.0327	1.04	12/15/2019 05:30	WG1396623
Methyl tert-butyl ether	U		0.000386	0.00131	1.04	12/15/2019 05:30	WG1396623
Naphthalene	U		0.00407	0.0163	1.04	12/15/2019 05:30	WG1396623
n-Propylbenzene	U		0.00154	0.00653	1.04	12/15/2019 05:30	WG1396623
Styrene	U		0.00357	0.0163	1.04	12/15/2019 05:30	WG1396623
1,1,1,2-Tetrachloroethane	U		0.000653	0.00327	1.04	12/15/2019 05:30	WG1396623
1,1,2,2-Tetrachloroethane	U		0.000510	0.00327	1.04	12/15/2019 05:30	WG1396623
1,1,2-Trichlorotrifluoroethane	U		0.000882	0.00327	1.04	12/15/2019 05:30	WG1396623
Tetrachloroethene	U		0.000914	0.00327	1.04	12/15/2019 05:30	WG1396623
Toluene	0.0124		0.00163	0.00653	1.04	12/15/2019 05:30	WG1396623
1,2,3-Trichlorobenzene	U		0.000816	0.00327	1.04	12/15/2019 05:30	WG1396623
1,2,4-Trichlorobenzene	U		0.00629	0.0163	1.04	12/15/2019 05:30	WG1396623
1,1,1-Trichloroethane	U		0.000359	0.00327	1.04	12/15/2019 05:30	WG1396623
1,1,2-Trichloroethane	U		0.00115	0.00327	1.04	12/15/2019 05:30	WG1396623
Trichloroethene	U		0.000522	0.00131	1.04	12/15/2019 05:30	WG1396623
Trichlorofluoromethane	U		0.000653	0.00327	1.04	12/15/2019 05:30	WG1396623
1,2,3-Trichloropropane	U		0.00666	0.0163	1.04	12/15/2019 05:30	WG1396623
1,2,4-Trimethylbenzene	U		0.00152	0.00653	1.04	12/15/2019 05:30	WG1396623
1,2,3-Trimethylbenzene	U		0.00151	0.00653	1.04	12/15/2019 05:30	WG1396623
1,3,5-Trimethylbenzene	U		0.00141	0.00653	1.04	12/15/2019 05:30	WG1396623
Vinyl chloride	U		0.000892	0.00327	1.04	12/15/2019 05:30	WG1396623
Xylenes, Total	U		0.00624	0.00849	1.04	12/15/2019 05:30	WG1396623
(S) Toluene-d8	*108*			*75.0-131*		*12/15/2019 05:30*	WG1396623
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*12/15/2019 05:30*	WG1396623
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*12/15/2019 05:30*	WG1396623

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Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	1.65	J	0.921	5.02	1	12/15/2019 01:34	WG1395893
C22-C32 Hydrocarbons	4.41	J	1.67	5.02	1	12/15/2019 01:34	WG1395893
C32-C40 Hydrocarbons	3.49	J	1.67	5.02	1	12/15/2019 01:34	WG1395893
(S) o-Terphenyl	*65.9*			*18.0-148*		*12/15/2019 01:34*	WG1395893

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.000293	0.0251	1	12/14/2019 11:00	WG1396175
Alpha BHC	U		0.000242	0.0251	1	12/14/2019 11:00	WG1396175
Beta BHC	U		0.000381	0.0251	1	12/14/2019 11:00	WG1396175
Delta BHC	U		0.000190	0.0251	1	12/14/2019 11:00	WG1396175
Gamma BHC	U		0.000308	0.0251	1	12/14/2019 11:00	WG1396175
4,4-DDD	U		0.000206	0.0251	1	12/14/2019 11:00	WG1396175
4,4-DDE	U		0.000207	0.0251	1	12/14/2019 11:00	WG1396175
4,4-DDT	U		0.000334	0.0251	1	12/14/2019 11:00	WG1396175
Dieldrin	U		0.000112	0.00251	1	12/14/2019 11:00	WG1396175
Endosulfan I	U		0.000269	0.0251	1	12/14/2019 11:00	WG1396175
Endosulfan II	U		0.000289	0.0251	1	12/14/2019 11:00	WG1396175
Endosulfan sulfate	U		0.000214	0.0251	1	12/14/2019 11:00	WG1396175
Endrin	U		0.000275	0.0251	1	12/14/2019 11:00	WG1396175
Endrin aldehyde	U		0.000304	0.0251	1	12/14/2019 11:00	WG1396175
Endrin ketone	U		0.000200	0.0251	1	12/14/2019 11:00	WG1396175
Heptachlor	U		0.000127	0.0251	1	12/14/2019 11:00	WG1396175
Heptachlor epoxide	U		0.000475	0.0251	1	12/14/2019 11:00	WG1396175
Hexachlorobenzene	U		0.000281	0.0251	1	12/14/2019 11:00	WG1396175
Methoxychlor	U		0.000333	0.0251	1	12/14/2019 11:00	WG1396175
Chlordane	U		0.0490	0.251	1	12/14/2019 11:00	WG1396175
Toxaphene	U		0.0452	0.502	1	12/14/2019 11:00	WG1396175
(S) Decachlorobiphenyl	*66.8*			*10.0-135*		*12/14/2019 11:00*	WG1396175
(S) Tetrachloro-m-xylene	*72.3*			*10.0-139*		*12/14/2019 11:00*	WG1396175

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0418		0.00337	0.0361	1	12/16/2019 11:49	WG1396021

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.903	2.41	1	12/14/2019 16:02	WG1395913
Arsenic	U		0.554	2.41	1	12/14/2019 16:02	WG1395913
Barium	257		0.205	0.602	1	12/14/2019 16:02	WG1395913
Beryllium	0.517		0.0843	0.241	1	12/14/2019 16:02	WG1395913
Cadmium	0.141	J	0.0843	0.602	1	12/14/2019 16:02	WG1395913
Chromium	67.2		0.169	1.20	1	12/14/2019 16:02	WG1395913
Cobalt	11.3		0.277	1.20	1	12/14/2019 16:02	WG1395913
Copper	21.4		0.638	2.41	1	12/14/2019 16:02	WG1395913
Lead	4.76		0.229	0.602	1	12/14/2019 16:02	WG1395913
Molybdenum	U		0.193	0.602	1	12/14/2019 16:02	WG1395913
Nickel	61.0		0.590	2.41	1	12/14/2019 16:02	WG1395913
Selenium	U		0.746	2.41	1	12/14/2019 16:02	WG1395913
Silver	U		0.144	1.20	1	12/14/2019 16:02	WG1395913
Thallium	U		0.782	2.41	1	12/14/2019 16:02	WG1395913
Vanadium	54.8		0.289	2.41	1	12/14/2019 16:02	WG1395913
Zinc	60.2		0.710	6.02	1	12/14/2019 16:02	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.882	4.81	1	12/15/2019 01:49	WG1395893
C22-C32 Hydrocarbons	U		1.60	4.81	1	12/15/2019 01:49	WG1395893
C32-C40 Hydrocarbons	U		1.60	4.81	1	12/15/2019 01:49	WG1395893
(S) o-Terphenyl	*79.6*			*18.0-148*		*12/15/2019 01:49*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0376		0.00331	0.0354	1	12/16/2019 19:36	WG1396619

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.886	2.36	1	12/14/2019 16:10	WG1395913
Arsenic	2.41		0.543	2.36	1	12/14/2019 16:10	WG1395913
Barium	158		0.201	0.591	1	12/14/2019 16:10	WG1395913
Beryllium	0.455		0.0827	0.236	1	12/14/2019 16:10	WG1395913
Cadmium	0.240	J	0.0827	0.591	1	12/14/2019 16:10	WG1395913
Chromium	55.5		0.165	1.18	1	12/14/2019 16:10	WG1395913
Cobalt	26.2		0.272	1.18	1	12/14/2019 16:10	WG1395913
Copper	21.9		0.626	2.36	1	12/14/2019 16:10	WG1395913
Lead	6.26		0.224	0.591	1	12/14/2019 16:10	WG1395913
Molybdenum	0.277	J	0.189	0.591	1	12/14/2019 16:10	WG1395913
Nickel	87.5		0.579	2.36	1	12/14/2019 16:10	WG1395913
Selenium	U		0.733	2.36	1	12/14/2019 16:10	WG1395913
Silver	U		0.142	1.18	1	12/14/2019 16:10	WG1395913
Thallium	U		0.768	2.36	1	12/14/2019 16:10	WG1395913
Vanadium	54.9		0.284	2.36	1	12/14/2019 16:10	WG1395913
Zinc	38.0		0.697	5.91	1	12/14/2019 16:10	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.866	4.73	1	12/14/2019 23:38	WG1395893
C22-C32 Hydrocarbons	U		1.57	4.73	1	12/14/2019 23:38	WG1395893
C32-C40 Hydrocarbons	U		1.57	4.73	1	12/14/2019 23:38	WG1395893
(S) o-Terphenyl	*85.3*			*18.0-148*		*12/14/2019 23:38*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0637		0.00329	0.0352	1	12/16/2019 19:38	WG1396619

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.30	J	0.881	2.35	1	12/14/2019 16:13	WG1395913
Arsenic	1.84	J	0.540	2.35	1	12/14/2019 16:13	WG1395913
Barium	133		0.200	0.587	1	12/14/2019 16:13	WG1395913
Beryllium	0.489		0.0822	0.235	1	12/14/2019 16:13	WG1395913
Cadmium	0.127	J	0.0822	0.587	1	12/14/2019 16:13	WG1395913
Chromium	63.3		0.164	1.17	1	12/14/2019 16:13	WG1395913
Cobalt	12.0		0.270	1.17	1	12/14/2019 16:13	WG1395913
Copper	20.5		0.622	2.35	1	12/14/2019 16:13	WG1395913
Lead	16.5		0.223	0.587	1	12/14/2019 16:13	WG1395913
Molybdenum	U		0.188	0.587	1	12/14/2019 16:13	WG1395913
Nickel	57.0		0.575	2.35	1	12/14/2019 16:13	WG1395913
Selenium	U		0.728	2.35	1	12/14/2019 16:13	WG1395913
Silver	U		0.141	1.17	1	12/14/2019 16:13	WG1395913
Thallium	U		0.763	2.35	1	12/14/2019 16:13	WG1395913
Vanadium	49.3		0.282	2.35	1	12/14/2019 16:13	WG1395913
Zinc	46.2		0.693	5.87	1	12/14/2019 16:13	WG1395913

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.180	B	0.0390	0.117	1	12/15/2019 08:33	WG1396752
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*12/15/2019 08:33*	WG1396752

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0648		0.0161	0.0294	1	12/15/2019 05:50	WG1396623
Acrylonitrile	U		0.00223	0.0147	1	12/15/2019 05:50	WG1396623
Benzene	0.000567	J	0.000470	0.00117	1	12/15/2019 05:50	WG1396623
Bromobenzene	U		0.00123	0.0147	1	12/15/2019 05:50	WG1396623
Bromodichloromethane	U		0.000925	0.00294	1	12/15/2019 05:50	WG1396623
Bromoform	U		0.00702	0.0294	1	12/15/2019 05:50	WG1396623
Bromomethane	U		0.00434	0.0147	1	12/15/2019 05:50	WG1396623
n-Butylbenzene	U		0.00451	0.0147	1	12/15/2019 05:50	WG1396623
sec-Butylbenzene	U		0.00297	0.0147	1	12/15/2019 05:50	WG1396623
tert-Butylbenzene	U		0.00182	0.00587	1	12/15/2019 05:50	WG1396623
Carbon tetrachloride	U		0.00127	0.00587	1	12/15/2019 05:50	WG1396623
Chlorobenzene	U		0.000673	0.00294	1	12/15/2019 05:50	WG1396623
Chlorodibromomethane	U		0.000528	0.00294	1	12/15/2019 05:50	WG1396623
Chloroethane	U		0.00127	0.00587	1	12/15/2019 05:50	WG1396623
Chloroform	U		0.000487	0.00294	1	12/15/2019 05:50	WG1396623
Chloromethane	U	J4	0.00163	0.0147	1	12/15/2019 05:50	WG1396623
2-Chlorotoluene	U		0.00108	0.00294	1	12/15/2019 05:50	WG1396623
4-Chlorotoluene	U		0.00133	0.00587	1	12/15/2019 05:50	WG1396623

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0294	1	12/15/2019 05:50	WG1396623
1,2-Dibromoethane	U		0.000616	0.00294	1	12/15/2019 05:50	WG1396623
Dibromomethane	U		0.00117	0.00587	1	12/15/2019 05:50	WG1396623
1,2-Dichlorobenzene	U		0.00170	0.00587	1	12/15/2019 05:50	WG1396623
1,3-Dichlorobenzene	U		0.00200	0.00587	1	12/15/2019 05:50	WG1396623
1,4-Dichlorobenzene	U		0.00231	0.00587	1	12/15/2019 05:50	WG1396623
Dichlorodifluoromethane	U		0.000960	0.00294	1	12/15/2019 05:50	WG1396623
1,1-Dichloroethane	U		0.000675	0.00294	1	12/15/2019 05:50	WG1396623
1,2-Dichloroethane	U		0.000558	0.00294	1	12/15/2019 05:50	WG1396623
1,1-Dichloroethene	U		0.000587	0.00294	1	12/15/2019 05:50	WG1396623
cis-1,2-Dichloroethene	U		0.000810	0.00294	1	12/15/2019 05:50	WG1396623
trans-1,2-Dichloroethene	U		0.00168	0.00587	1	12/15/2019 05:50	WG1396623
1,2-Dichloropropane	U	J4	0.00149	0.00587	1	12/15/2019 05:50	WG1396623
1,1-Dichloropropene	U		0.000822	0.00294	1	12/15/2019 05:50	WG1396623
1,3-Dichloropropane	U		0.00205	0.00587	1	12/15/2019 05:50	WG1396623
cis-1,3-Dichloropropene	U		0.000796	0.00294	1	12/15/2019 05:50	WG1396623
trans-1,3-Dichloropropene	U		0.00180	0.00587	1	12/15/2019 05:50	WG1396623
2,2-Dichloropropane	U	J4	0.000931	0.00294	1	12/15/2019 05:50	WG1396623
Di-isopropyl ether	U	J4	0.000411	0.00117	1	12/15/2019 05:50	WG1396623
Ethylbenzene	U		0.000622	0.00294	1	12/15/2019 05:50	WG1396623
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	12/15/2019 05:50	WG1396623
Isopropylbenzene	U		0.00101	0.00294	1	12/15/2019 05:50	WG1396623
p-Isopropyltoluene	U		0.00274	0.00587	1	12/15/2019 05:50	WG1396623
2-Butanone (MEK)	0.0256	B J	0.0147	0.0294	1	12/15/2019 05:50	WG1396623
Methylene Chloride	U		0.00780	0.0294	1	12/15/2019 05:50	WG1396623
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0294	1	12/15/2019 05:50	WG1396623
Methyl tert-butyl ether	U		0.000346	0.00117	1	12/15/2019 05:50	WG1396623
Naphthalene	U		0.00366	0.0147	1	12/15/2019 05:50	WG1396623
n-Propylbenzene	U		0.00139	0.00587	1	12/15/2019 05:50	WG1396623
Styrene	U		0.00321	0.0147	1	12/15/2019 05:50	WG1396623
1,1,1,2-Tetrachloroethane	U		0.000587	0.00294	1	12/15/2019 05:50	WG1396623
1,1,2,2-Tetrachloroethane	U		0.000458	0.00294	1	12/15/2019 05:50	WG1396623
1,1,2-Trichlorotrifluoroethane	U		0.000792	0.00294	1	12/15/2019 05:50	WG1396623
Tetrachloroethene	U		0.000822	0.00294	1	12/15/2019 05:50	WG1396623
Toluene	0.0169		0.00147	0.00587	1	12/15/2019 05:50	WG1396623
1,2,3-Trichlorobenzene	U		0.000734	0.00294	1	12/15/2019 05:50	WG1396623
1,2,4-Trichlorobenzene	U		0.00566	0.0147	1	12/15/2019 05:50	WG1396623
1,1,1-Trichloroethane	U		0.000323	0.00294	1	12/15/2019 05:50	WG1396623
1,1,2-Trichloroethane	U		0.00104	0.00294	1	12/15/2019 05:50	WG1396623
Trichloroethene	U		0.000470	0.00117	1	12/15/2019 05:50	WG1396623
Trichlorofluoromethane	U		0.000587	0.00294	1	12/15/2019 05:50	WG1396623
1,2,3-Trichloropropane	U		0.00599	0.0147	1	12/15/2019 05:50	WG1396623
1,2,4-Trimethylbenzene	U		0.00136	0.00587	1	12/15/2019 05:50	WG1396623
1,2,3-Trimethylbenzene	U		0.00135	0.00587	1	12/15/2019 05:50	WG1396623
1,3,5-Trimethylbenzene	U		0.00127	0.00587	1	12/15/2019 05:50	WG1396623
Vinyl chloride	U		0.000802	0.00294	1	12/15/2019 05:50	WG1396623
Xylenes, Total	U		0.00561	0.00763	1	12/15/2019 05:50	WG1396623
(S) Toluene-d8	*106*			*75.0-131*		*12/15/2019 05:50*	WG1396623
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/15/2019 05:50*	WG1396623
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*12/15/2019 05:50*	WG1396623

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Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	3.15	J	1.73	9.39	2	12/15/2019 14:32	WG1395893
C22-C32 Hydrocarbons	35.0		3.12	9.39	2	12/15/2019 14:32	WG1395893
C32-C40 Hydrocarbons	31.3		3.12	9.39	2	12/15/2019 14:32	WG1395893
(S) o-Terphenyl	*78.9*			*18.0-148*		*12/15/2019 14:32*	WG1395893

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.000274	0.0235	1	12/14/2019 11:12	WG1396175
Alpha BHC	U		0.000227	0.0235	1	12/14/2019 11:12	WG1396175
Beta BHC	U		0.000356	0.0235	1	12/14/2019 11:12	WG1396175
Delta BHC	U		0.000177	0.0235	1	12/14/2019 11:12	WG1396175
Gamma BHC	U		0.000288	0.0235	1	12/14/2019 11:12	WG1396175
4,4-DDD	U		0.000193	0.0235	1	12/14/2019 11:12	WG1396175
4,4-DDE	U		0.000194	0.0235	1	12/14/2019 11:12	WG1396175
4,4-DDT	U		0.000312	0.0235	1	12/14/2019 11:12	WG1396175
Dieldrin	U		0.000104	0.00235	1	12/14/2019 11:12	WG1396175
Endosulfan I	U		0.000251	0.0235	1	12/14/2019 11:12	WG1396175
Endosulfan II	U		0.000270	0.0235	1	12/14/2019 11:12	WG1396175
Endosulfan sulfate	U		0.000200	0.0235	1	12/14/2019 11:12	WG1396175
Endrin	U		0.000257	0.0235	1	12/14/2019 11:12	WG1396175
Endrin aldehyde	U		0.000284	0.0235	1	12/14/2019 11:12	WG1396175
Endrin ketone	U		0.000187	0.0235	1	12/14/2019 11:12	WG1396175
Heptachlor	U		0.000119	0.0235	1	12/14/2019 11:12	WG1396175
Heptachlor epoxide	U		0.000444	0.0235	1	12/14/2019 11:12	WG1396175
Hexachlorobenzene	U		0.000263	0.0235	1	12/14/2019 11:12	WG1396175
Methoxychlor	U		0.000311	0.0235	1	12/14/2019 11:12	WG1396175
Chlordane	U		0.0458	0.235	1	12/14/2019 11:12	WG1396175
Toxaphene	U		0.0423	0.470	1	12/14/2019 11:12	WG1396175
(S) Decachlorobiphenyl	*34.4*			*10.0-135*		*12/14/2019 11:12*	WG1396175
(S) Tetrachloro-m-xylene	*37.0*			*10.0-139*		*12/14/2019 11:12*	WG1396175

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.4		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0286	J	0.00328	0.0351	1	12/16/2019 19:45	WG1396619

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.936	J	0.878	2.34	1	12/14/2019 16:15	WG1395913
Arsenic	3.40		0.539	2.34	1	12/14/2019 16:15	WG1395913
Barium	111		0.199	0.585	1	12/14/2019 16:15	WG1395913
Beryllium	0.404		0.0820	0.234	1	12/14/2019 16:15	WG1395913
Cadmium	0.162	J	0.0820	0.585	1	12/14/2019 16:15	WG1395913
Chromium	54.0		0.164	1.17	1	12/14/2019 16:15	WG1395913
Cobalt	10.7		0.269	1.17	1	12/14/2019 16:15	WG1395913
Copper	20.1		0.620	2.34	1	12/14/2019 16:15	WG1395913
Lead	5.61		0.222	0.585	1	12/14/2019 16:15	WG1395913
Molybdenum	U		0.187	0.585	1	12/14/2019 16:15	WG1395913
Nickel	41.9		0.574	2.34	1	12/14/2019 16:15	WG1395913
Selenium	U		0.726	2.34	1	12/14/2019 16:15	WG1395913
Silver	U		0.140	1.17	1	12/14/2019 16:15	WG1395913
Thallium	U		0.761	2.34	1	12/14/2019 16:15	WG1395913
Vanadium	45.4		0.281	2.34	1	12/14/2019 16:15	WG1395913
Zinc	39.9		0.691	5.85	1	12/14/2019 16:15	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	0.871	J	0.858	4.68	1	12/15/2019 02:18	WG1395893
C22-C32 Hydrocarbons	4.76		1.56	4.68	1	12/15/2019 02:18	WG1395893
C32-C40 Hydrocarbons	4.21	J	1.56	4.68	1	12/15/2019 02:18	WG1395893
(S) o-Terphenyl	*78.9*			*18.0-148*		*12/15/2019 02:18*	WG1395893

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.4		1	12/14/2019 13:45	WG1396077

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0269	J	0.00328	0.0351	1	12/16/2019 19:47	WG1396619

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.27	J	0.878	2.34	1	12/14/2019 16:18	WG1395913
Arsenic	3.76		0.539	2.34	1	12/14/2019 16:18	WG1395913
Barium	124		0.199	0.586	1	12/14/2019 16:18	WG1395913
Beryllium	0.521		0.0820	0.234	1	12/14/2019 16:18	WG1395913
Cadmium	0.124	J	0.0820	0.586	1	12/14/2019 16:18	WG1395913
Chromium	60.1		0.164	1.17	1	12/14/2019 16:18	WG1395913
Cobalt	14.6		0.269	1.17	1	12/14/2019 16:18	WG1395913
Copper	20.0		0.621	2.34	1	12/14/2019 16:18	WG1395913
Lead	6.78		0.223	0.586	1	12/14/2019 16:18	WG1395913
Molybdenum	0.349	J	0.187	0.586	1	12/14/2019 16:18	WG1395913
Nickel	67.0		0.574	2.34	1	12/14/2019 16:18	WG1395913
Selenium	U		0.726	2.34	1	12/14/2019 16:18	WG1395913
Silver	U		0.141	1.17	1	12/14/2019 16:18	WG1395913
Thallium	U		0.761	2.34	1	12/14/2019 16:18	WG1395913
Vanadium	60.1		0.281	2.34	1	12/14/2019 16:18	WG1395913
Zinc	40.6		0.691	5.86	1	12/14/2019 16:18	WG1395913

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.858	4.68	1	12/14/2019 23:53	WG1395893
C22-C32 Hydrocarbons	U		1.56	4.68	1	12/14/2019 23:53	WG1395893
C32-C40 Hydrocarbons	U		1.56	4.68	1	12/14/2019 23:53	WG1395893
(S) o-Terphenyl	*90.8*			*18.0-148*		*12/14/2019 23:53*	WG1395893

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Method Blank (MB)

(MB) R3482655-1 12/14/19 13:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1170105-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1170105-32 12/14/19 13:55 • (DUP) R3482655-3 12/14/19 13:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.0	95.9	1	0.109		10

Laboratory Control Sample (LCS)

(LCS) R3482655-2 12/14/19 13:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

DRAFT

Method Blank (MB)

(MB) R3482654-1 12/14/19 13:45

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1170116-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1170116-11 12/14/19 13:45 • (DUP) R3482654-3 12/14/19 13:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.1	83.1	1	0.0171		10

Laboratory Control Sample (LCS)

(LCS) R3482654-2 12/14/19 13:45

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

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Method Blank (MB)

(MB) R3482781-1 12/16/19 11:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3482781-2 12/16/19 11:12 • (LCSD) R3482781-3 12/16/19 11:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.485	0.418	97.0	83.7	80.0-120			14.8	20

L1170231-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170231-04 12/16/19 11:16 • (MS) R3482781-4 12/16/19 11:18 • (MSD) R3482781-5 12/16/19 11:21

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.591	ND	0.368	0.360	59.7	58.4	1	75.0-125	J6	J6	2.03	20

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Method Blank (MB)

(MB) R3482958-1 12/16/19 18:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3482958-2 12/16/19 18:54 • (LCSD) R3482958-3 12/16/19 18:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.455	0.475	91.0	95.0	80.0-120			4.30	20

L1170385-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170385-01 12/16/19 18:59 • (MS) R3482958-4 12/16/19 19:01 • (MSD) R3482958-5 12/16/19 19:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	ND	0.453	0.430	86.9	82.1	1	75.0-125			5.33	20

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Method Blank (MB)

(MB) R3482546-1 12/14/19 15:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.750	2.00
Arsenic	U		0.460	2.00
Barium	U		0.170	0.500
Beryllium	U		0.0700	0.200
Cadmium	U		0.0700	0.500
Chromium	0.171	J	0.140	1.00
Cobalt	U		0.230	1.00
Copper	U		0.530	2.00
Lead	0.373	J	0.190	0.500
Molybdenum	U		0.160	0.500
Nickel	U		0.490	2.00
Selenium	U		0.620	2.00
Silver	U		0.120	1.00
Thallium	U		0.650	2.00
Vanadium	0.495	J	0.240	2.00
Zinc	U		0.590	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3482546-2 12/14/19 15:11 • (LCSD) R3482546-3 12/14/19 15:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	97.1	97.6	97.1	97.6	80.0-120			0.568	20
Arsenic	100	93.5	94.0	93.5	94.0	80.0-120			0.523	20
Barium	100	99.5	99.9	99.5	99.9	80.0-120			0.346	20
Beryllium	100	98.8	98.6	98.8	98.6	80.0-120			0.161	20
Cadmium	100	95.2	95.4	95.2	95.4	80.0-120			0.226	20
Chromium	100	98.8	98.8	98.8	98.8	80.0-120			0.00589	20
Cobalt	100	97.8	97.8	97.8	97.8	80.0-120			0.0322	20
Copper	100	98.3	98.3	98.3	98.3	80.0-120			0.0341	20
Lead	100	96.6	97.3	96.6	97.3	80.0-120			0.707	20
Molybdenum	100	101	100	101	100	80.0-120			0.208	20
Nickel	100	96.9	97.0	96.9	97.0	80.0-120			0.0865	20
Selenium	100	93.1	94.4	93.1	94.4	80.0-120			1.36	20
Silver	20.0	18.4	18.5	92.1	92.3	80.0-120			0.121	20
Thallium	100	97.2	98.0	97.2	98.0	80.0-120			0.767	20
Vanadium	100	97.7	97.2	97.7	97.2	80.0-120			0.451	20
Zinc	100	96.0	96.1	96.0	96.1	80.0-120			0.140	20

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L1170231-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170231-04 12/14/19 15:16 • (MS) R3482546-6 12/14/19 15:23 • (MSD) R3482546-7 12/14/19 15:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	118	ND	63.1	62.0	53.4	52.4	1	75.0-125	J6	J6	1.80	20
Arsenic	118	ND	95.1	98.7	79.7	82.8	1	75.0-125			3.79	20
Barium	118	197	598	411	339	181	1	75.0-125	J5	J3 J5	37.1	20
Beryllium	118	0.742	99.9	103	83.9	86.1	1	75.0-125			2.61	20
Cadmium	118	ND	97.5	99.7	82.5	84.4	1	75.0-125			2.30	20
Chromium	118	16.2	117	119	85.0	87.0	1	75.0-125			1.96	20
Cobalt	118	20.7	126	128	89.0	90.7	1	75.0-125			1.67	20
Copper	118	6.62	110	112	87.1	88.8	1	75.0-125			1.82	20
Lead	118	9.13	114	117	88.8	90.9	1	75.0-125			2.22	20
Molybdenum	118	ND	98.5	99.4	83.3	84.0	1	75.0-125			0.851	20
Nickel	118	19.0	123	126	87.8	90.2	1	75.0-125			2.30	20
Selenium	118	ND	94.0	96.6	79.5	81.7	1	75.0-125			2.69	20
Silver	23.6	ND	18.8	19.3	79.4	81.6	1	75.0-125			2.70	20
Thallium	118	ND	104	107	87.6	90.9	1	75.0-125			3.71	20
Vanadium	118	28.9	130	132	85.8	87.3	1	75.0-125			1.41	20
Zinc	118	28.3	126	128	82.6	84.0	1	75.0-125			1.38	20

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Method Blank (MB)

(MB) R3483195-3 12/15/19 07:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.0593	J	0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3483195-1 12/15/19 05:56 • (LCSD) R3483195-2 12/15/19 06:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	5.50	6.53	6.61	119	120	72.0-125			1.22	20
(S) a,a,a-Trifluorotoluene(FID)				*115*	*116*	*77.0-120*				

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Method Blank (MB)

(MB) R3482753-2 12/15/19 02:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

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Method Blank (MB)

(MB) R3482753-2 12/15/19 02:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0416		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3482753-1 12/15/19 00:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.930	149	10.0-160	
Acrylonitrile	0.625	0.836	134	45.0-153	
Benzene	0.125	0.136	109	70.0-123	
Bromobenzene	0.125	0.137	110	73.0-121	
Bromodichloromethane	0.125	0.137	110	73.0-121	

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Laboratory Control Sample (LCS)

(LCS) R3482753-1 12/15/19 00:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.131	105	64.0-132	
Bromomethane	0.125	0.103	82.4	56.0-147	
n-Butylbenzene	0.125	0.132	106	68.0-135	
sec-Butylbenzene	0.125	0.144	115	74.0-130	
tert-Butylbenzene	0.125	0.141	113	75.0-127	
Carbon tetrachloride	0.125	0.143	114	66.0-128	
Chlorobenzene	0.125	0.127	102	76.0-128	
Chlorodibromomethane	0.125	0.129	103	74.0-127	
Chloroethane	0.125	0.104	83.2	61.0-134	
Chloroform	0.125	0.137	110	72.0-123	
Chloromethane	0.125	0.188	150	51.0-138	J4
2-Chlorotoluene	0.125	0.138	110	75.0-124	
4-Chlorotoluene	0.125	0.141	113	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0996	79.7	59.0-130	
1,2-Dibromoethane	0.125	0.136	109	74.0-128	
Dibromomethane	0.125	0.140	112	75.0-122	
1,2-Dichlorobenzene	0.125	0.133	106	76.0-124	
1,3-Dichlorobenzene	0.125	0.139	111	76.0-125	
1,4-Dichlorobenzene	0.125	0.134	107	77.0-121	
Dichlorodifluoromethane	0.125	0.174	139	43.0-156	
1,1-Dichloroethane	0.125	0.157	126	70.0-127	
1,2-Dichloroethane	0.125	0.140	112	65.0-131	
1,1-Dichloroethene	0.125	0.135	108	65.0-131	
cis-1,2-Dichloroethene	0.125	0.129	103	73.0-125	
trans-1,2-Dichloroethene	0.125	0.137	110	71.0-125	
1,2-Dichloropropane	0.125	0.158	126	74.0-125	J4
1,1-Dichloropropene	0.125	0.148	118	73.0-125	
1,3-Dichloropropane	0.125	0.139	111	80.0-125	
cis-1,3-Dichloropropene	0.125	0.134	107	76.0-127	
trans-1,3-Dichloropropene	0.125	0.134	107	73.0-127	
2,2-Dichloropropane	0.125	0.175	140	59.0-135	J4
Di-isopropyl ether	0.125	0.172	138	60.0-136	J4
Ethylbenzene	0.125	0.128	102	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.146	117	57.0-150	
Isopropylbenzene	0.125	0.133	106	72.0-127	
p-Isopropyltoluene	0.125	0.141	113	72.0-133	
2-Butanone (MEK)	0.625	0.850	136	30.0-160	
Methylene Chloride	0.125	0.153	122	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.775	124	56.0-143	
Methyl tert-butyl ether	0.125	0.159	127	66.0-132	

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Laboratory Control Sample (LCS)

(LCS) R3482753-1 12/15/19 00:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0924	73.9	59.0-130	
n-Propylbenzene	0.125	0.141	113	74.0-126	
Styrene	0.125	0.130	104	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.136	109	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.152	122	68.0-128	
Tetrachloroethene	0.125	0.143	114	70.0-136	
Toluene	0.125	0.129	103	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.136	109	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.109	87.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.126	101	62.0-137	
1,1,1-Trichloroethane	0.125	0.148	118	69.0-126	
1,1,2-Trichloroethane	0.125	0.134	107	78.0-123	
Trichloroethene	0.125	0.145	116	76.0-126	
Trichlorofluoromethane	0.125	0.151	121	61.0-142	
1,2,3-Trichloropropane	0.125	0.152	122	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.138	110	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.134	107	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.138	110	73.0-127	
Vinyl chloride	0.125	0.130	104	63.0-134	
Xylenes, Total	0.375	0.396	106	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

L1170250-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170250-02 12/15/19 08:35 • (MS) R3482753-3 12/15/19 09:17 • (MSD) R3482753-4 12/15/19 09:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	ND	0.313	0.359	50.1	57.4	1	10.0-160			13.7	40
Acrylonitrile	0.625	ND	0.721	0.731	115	117	1	10.0-160			1.38	40
Benzene	0.125	ND	0.149	0.0540	119	43.2	1	10.0-149		J3	93.6	37
Bromobenzene	0.125	ND	0.149	0.0798	119	63.8	1	10.0-156		J3	60.5	38
Bromodichloromethane	0.125	ND	0.145	0.0815	116	65.2	1	10.0-143		J3	56.1	37
Bromoform	0.125	ND	0.124	0.112	99.2	89.6	1	10.0-146			10.2	36
Bromomethane	0.125	ND	0.0848	0.0266	67.8	21.3	1	10.0-149		J3	104	38
n-Butylbenzene	0.125	ND	0.154	0.0492	123	39.4	1	10.0-160		J3	103	40
sec-Butylbenzene	0.125	ND	0.163	0.0467	130	37.4	1	10.0-159		J3	111	39
tert-Butylbenzene	0.125	ND	0.163	0.0503	130	40.2	1	10.0-156		J3	106	39

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L1170250-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170250-02 12/15/19 08:35 • (MS) R3482753-3 12/15/19 09:17 • (MSD) R3482753-4 12/15/19 09:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.125	ND	0.153	0.0334	122	26.7	1	10.0-145		J3	128	37
Chlorobenzene	0.125	ND	0.142	0.0672	114	53.8	1	10.0-152		J3	71.5	39
Chlorodibromomethane	0.125	ND	0.137	0.101	110	80.8	1	10.0-146			30.3	37
Chloroethane	0.125	ND	0.0815	0.0203	65.2	16.2	1	10.0-146		J3	120	40
Chloroform	0.125	ND	0.154	0.0597	123	47.8	1	10.0-146		J3	88.3	37
Chloromethane	0.125	ND	0.189	0.0489	151	39.1	1	10.0-159		J3	118	37
2-Chlorotoluene	0.125	ND	0.152	0.0619	122	49.5	1	10.0-159		J3	84.2	38
4-Chlorotoluene	0.125	ND	0.157	0.0716	126	57.3	1	10.0-155		J3	74.7	39
1,2-Dibromo-3-Chloropropane	0.125	ND	0.0908	0.0994	72.6	79.5	1	10.0-151			9.04	39
1,2-Dibromoethane	0.125	ND	0.143	0.119	114	95.2	1	10.0-148			18.3	34
Dibromomethane	0.125	ND	0.148	0.107	118	85.6	1	10.0-147			32.2	35
1,2-Dichlorobenzene	0.125	ND	0.146	0.0915	117	73.2	1	10.0-155		J3	45.9	37
1,3-Dichlorobenzene	0.125	ND	0.158	0.0806	126	64.5	1	10.0-153		J3	64.9	38
1,4-Dichlorobenzene	0.125	ND	0.146	0.0809	117	64.7	1	10.0-151		J3	57.4	38
Dichlorodifluoromethane	0.125	ND	0.164	0.0218	131	17.4	1	10.0-160		J3	153	35
1,1-Dichloroethane	0.125	ND	0.166	0.0585	133	46.8	1	10.0-147		J3	95.8	37
1,2-Dichloroethane	0.125	ND	0.149	0.0984	119	78.7	1	10.0-148		J3	40.9	35
1,1-Dichloroethene	0.125	ND	0.0657	0.0287	52.6	23.0	1	10.0-155		J3	78.4	37
cis-1,2-Dichloroethene	0.125	ND	0.138	0.0554	110	44.3	1	10.0-149		J3	85.4	37
trans-1,2-Dichloroethene	0.125	ND	0.145	0.0398	116	31.8	1	10.0-150		J3	114	37
1,2-Dichloropropane	0.125	ND	0.162	0.0832	130	66.6	1	10.0-148		J3	64.3	37
1,1-Dichloropropene	0.125	ND	0.165	0.0352	132	28.2	1	10.0-153		J3	130	35
1,3-Dichloropropane	0.125	ND	0.151	0.114	121	91.2	1	10.0-154			27.9	35
cis-1,3-Dichloropropene	0.125	ND	0.151	0.0873	121	69.8	1	10.0-151		J3	53.5	37
trans-1,3-Dichloropropene	0.125	ND	0.148	0.102	118	81.6	1	10.0-148			36.8	37
2,2-Dichloropropane	0.125	ND	0.137	0.0339	110	27.1	1	10.0-138		J3	121	36
Di-isopropyl ether	0.125	ND	0.184	0.106	147	84.8	1	10.0-147		J3	53.8	36
Ethylbenzene	0.125	ND	0.146	0.0511	117	40.9	1	10.0-160		J3	96.3	38
Hexachloro-1,3-butadiene	0.125	ND	0.178	0.0670	142	53.6	1	10.0-160		J3	90.6	40
Isopropylbenzene	0.125	ND	0.151	0.0498	121	39.8	1	10.0-155		J3	101	38
p-Isopropyltoluene	0.125	ND	0.159	0.0510	127	40.8	1	10.0-160		J3	103	40
2-Butanone (MEK)	0.625	0.0328	0.687	0.774	105	119	1	10.0-160			11.9	40
Methylene Chloride	0.125	ND	0.150	0.0476	120	38.1	1	10.0-141		J3	104	37
4-Methyl-2-pentanone (MIBK)	0.625	ND	0.725	0.754	116	121	1	10.0-160			3.92	35
Methyl tert-butyl ether	0.125	ND	0.157	0.117	126	93.6	1	11.0-147			29.2	35
Naphthalene	0.125	ND	0.0842	0.0955	67.4	76.4	1	10.0-160			12.6	36
n-Propylbenzene	0.125	ND	0.163	0.0488	130	39.0	1	10.0-158		J3	108	38
Styrene	0.125	ND	0.142	0.0717	114	57.4	1	10.0-160		J3	65.8	40
1,1,1,2-Tetrachloroethane	0.125	ND	0.140	0.0814	112	65.1	1	10.0-149		J3	52.9	39
1,1,2,2-Tetrachloroethane	0.125	ND	0.141	0.123	113	98.4	1	10.0-160			13.6	35

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L1170250-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170250-02 12/15/19 08:35 • (MS) R3482753-3 12/15/19 09:17 • (MSD) R3482753-4 12/15/19 09:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	0.125	ND	0.172	0.0469	138	37.5	1	10.0-156		J3	114	39
Toluene	0.125	ND	0.145	0.0546	116	43.7	1	10.0-156		J3	90.6	38
1,1,2-Trichlorotrifluoroethane	0.125	ND	0.163	0.0205	130	16.4	1	10.0-160		J3	155	36
1,2,3-Trichlorobenzene	0.125	ND	0.112	0.109	89.6	87.2	1	10.0-160			2.71	40
1,2,4-Trichlorobenzene	0.125	ND	0.146	0.110	117	88.0	1	10.0-160			28.1	40
1,1,1-Trichloroethane	0.125	ND	0.162	0.0383	130	30.6	1	10.0-144		J3	124	35
1,1,2-Trichloroethane	0.125	ND	0.157	0.121	126	96.8	1	10.0-160			25.9	35
Trichloroethene	0.125	ND	0.174	0.0669	139	53.5	1	10.0-156		J3	88.9	38
Trichlorofluoromethane	0.125	ND	0.112	0.0157	89.6	12.6	1	10.0-160		J3	151	40
1,2,3-Trichloropropane	0.125	ND	0.151	0.137	121	110	1	10.0-156			9.72	35
1,2,3-Trimethylbenzene	0.125	ND	0.147	0.0754	118	60.3	1	10.0-160		J3	64.4	36
1,2,4-Trimethylbenzene	0.125	ND	0.154	0.0668	123	53.4	1	10.0-160		J3	79.0	36
1,3,5-Trimethylbenzene	0.125	ND	0.152	0.0569	122	45.5	1	10.0-160		J3	91.0	38
Vinyl chloride	0.125	ND	0.136	0.0235	109	18.8	1	10.0-160		J3	141	37
Xylenes, Total	0.375	ND	0.441	0.176	118	46.9	1	10.0-160		J3	85.9	38
(S) Toluene-d8					*106*	*107*		*75.0-131*				
(S) 4-Bromofluorobenzene					*101*	*105*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*103*	*102*		*70.0-130*				

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Method Blank (MB)

(MB) R3482479-1 12/14/19 21:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*97.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3482479-2 12/14/19 21:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	21.8	87.2	50.0-150	
C12-C22 Hydrocarbons	25.0	21.9	87.6	50.0-150	
(S) o-Terphenyl			*79.7*	*18.0-148*	

L1170116-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170116-06 12/14/19 22:26 • (MS) R3482479-3 12/14/19 22:40 • (MSD) R3482479-4 12/14/19 22:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	30.4	1.92	20.8	22.6	62.2	68.0	1	50.0-150			8.00	20
C12-C22 Hydrocarbons	30.4	1.87	20.3	23.0	60.8	69.3	1	50.0-150			12.0	20
(S) o-Terphenyl					*60.4*	*67.8*		*18.0-148*				

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Method Blank (MB)

(MB) R3482511-1 12/14/19 08:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*80.9*			*10.0-135*
(S) Tetrachloro-m-xylene	*76.1*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3482511-2 12/14/19 08:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0642	96.4	34.0-136	
Alpha BHC	0.0666	0.0679	102	34.0-139	
Beta BHC	0.0666	0.0698	105	34.0-133	
Delta BHC	0.0666	0.0712	107	34.0-135	
Gamma BHC	0.0666	0.0665	99.8	34.0-136	
4,4-DDD	0.0666	0.0756	114	33.0-141	
4,4-DDE	0.0666	0.0683	103	34.0-134	
4,4-DDT	0.0666	0.0671	101	30.0-143	
Dieldrin	0.0666	0.0656	98.5	35.0-137	
Endosulfan I	0.0666	0.0622	93.4	34.0-134	

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Laboratory Control Sample (LCS)

(LCS) R3482511-2 12/14/19 08:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0579	86.9	35.0-132	
Endosulfan sulfate	0.0666	0.0654	98.2	35.0-132	
Endrin	0.0666	0.0635	95.3	34.0-137	
Endrin aldehyde	0.0666	0.0399	59.9	23.0-121	
Endrin ketone	0.0666	0.0626	94.0	35.0-144	
Heptachlor	0.0666	0.0683	103	36.0-141	
Heptachlor epoxide	0.0666	0.0645	96.8	36.0-134	
Hexachlorobenzene	0.0666	0.0617	92.6	33.0-129	P
Methoxychlor	0.0666	0.0671	101	28.0-150	
(S) Decachlorobiphenyl			*86.2*	*10.0-135*	
(S) Tetrachloro-m-xylene			*82.0*	*10.0-139*	

L1170024-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1170024-02 12/14/19 09:20 • (MS) R3482511-3 12/14/19 09:33 • (MSD) R3482511-4 12/14/19 09:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0766	U	0.0526	0.0477	68.8	62.3	1	20.0-135			9.85	37
Alpha BHC	0.0766	U	0.0560	0.0506	73.1	66.1	1	27.0-140			10.1	35
Beta BHC	0.0766	U	0.0578	0.0528	75.5	68.9	1	23.0-141			9.15	37
Delta BHC	0.0766	U	0.0585	0.0539	76.4	70.4	1	21.0-138			8.18	35
Gamma BHC	0.0766	U	0.0545	0.0493	71.2	64.4	1	27.0-137			9.97	36
4,4-DDD	0.0766	U	0.0636	0.0620	83.0	80.9	1	15.0-152			2.56	39
4,4-DDE	0.0766	U	0.0545	0.0495	71.2	64.7	1	10.0-152			9.50	40
4,4-DDT	0.0766	U	0.0533	0.0508	69.7	66.4	1	10.0-151			4.86	40
Dieldrin	0.0766	U	0.0554	0.0506	72.4	66.1	1	17.0-145			9.11	37
Endosulfan I	0.0766	U	0.0514	0.0466	67.1	60.8	1	20.0-137			9.86	36
Endosulfan II	0.0766	U	0.0493	0.0460	64.4	60.1	1	15.0-141			7.00	37
Endosulfan sulfate	0.0766	U	0.0535	0.0491	69.8	64.1	1	15.0-143			8.52	38
Endrin	0.0766	U	0.0530	0.0483	69.2	63.1	1	19.0-143			9.31	37
Endrin aldehyde	0.0766	U	0.0513	0.0474	67.0	61.9	1	10.0-139			7.93	40
Endrin ketone	0.0766	U	0.0518	0.0475	67.7	62.0	1	17.0-149			8.80	38
Heptachlor	0.0766	U	0.0566	0.0510	73.9	66.7	1	22.0-138			10.3	37
Heptachlor epoxide	0.0766	U	0.0516	0.0468	67.4	61.1	1	22.0-138			9.81	36
Hexachlorobenzene	0.0766	U	0.0508	0.0460	66.4	60.1	1	25.0-126		P	9.98	35
Methoxychlor	0.0766	U	0.0566	0.0540	73.9	70.6	1	10.0-159			4.57	40
(S) Decachlorobiphenyl					*62.6*	*56.6*		*10.0-135*				
(S) Tetrachloro-m-xylene					*62.5*	*56.3*		*10.0-139*				

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.

DRAFT

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

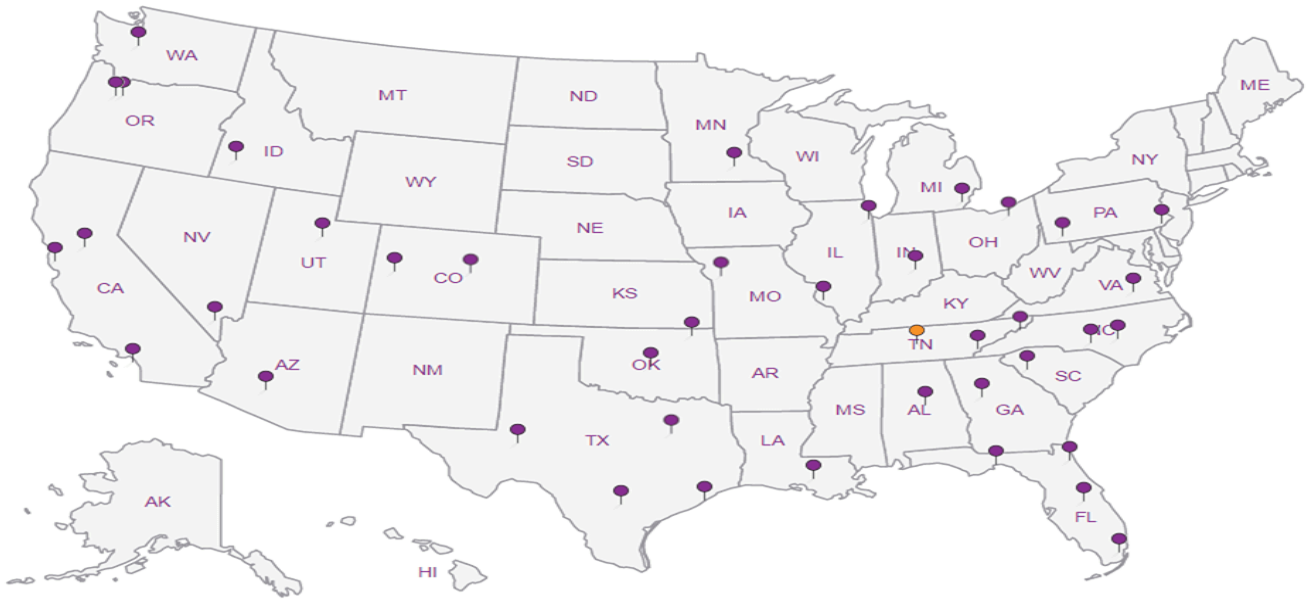
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



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Pace Analytical
www.pacelabs.com

HALEY ALDRICH

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

D091

Section A
Required Client Information:

Company:	Haley & Aldrich
Address:	2033 N Main St. Suite 309
	Walnut Creek, CA 94596
Email To:	jgrant@haleyaldrich.com
Phone: 925.949.4412	Fax:
Requested Due Date/TAT:	Stand. 5-day TAT

Section B
Required Project Information:

Report To:	jgrant@haleyaldrich.com
Copy To:	apiestrzeniewicz@haleyaldrich.com
BSA #:	2015-18-Pace
H&A Client Name:	Steelwave
H&A Project #:	134361-002

Section C
Invoice Information:

Attention:	Acounts Payable
Company Name:	Haley & Aldrich
Address:	70 Blanchard Rd. Ste. 204
Pace Quote Reference:	
Pace Project Manager:	Brian Ford/Jason Romer
Pace Profile #:	HALALDWCCA

X 12065 Lebanon Rd. Mount Juliet, TN, 37122 (National)
1700 Elm Street SE - Minneapolis, MN 55414
7726 Moller Road - Indianapolis, IN 46268

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING W
☐ UST ☐ RCRA ☐ _____

Site Location STATE: CA

Pace's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement #2015-18-Pace by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Pace Analytical Services, Inc.

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: Collection Info DATE	COLLECTED: Collection Info TIME	Sample Depth: Start Depth (Circle: feet or inches)	Sample Depth: End Depth (Circle: feet or inches)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	NaHS04	MeOH	Y/N: Analysis Test: CA Title 22 Metals (6010B/7471A)	TPHd/mo (8015B)	Organochlorine Pesticides (8081A)	VOCs (8260B: 5035)	TPHg (8015: 5035)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-1-SS-1.0	SL	G	12/11/19	1050	1	1.5	55	1	X								X	X	X				L1176116-01
2	B-1-SS-3.0	SL	G	12/11/19	1105	3	3.5		1	X								X	X					02
3	B-1-SS-~~10.0~~9.0 AP	SL	G	12/11/19	1110	9	9.5		1	X								X	X					03
4	B-2-SS-1.0	SL	G	12/11/19	1130	1	1.5		1	X								X	X	X				04
5	B-2-SS-3.0	SL	G	12/11/19	1145	3	3.5		1	X								X	X					05
6	B-2-SS-~~10.0~~9.0 AP	SL	G	12/11/19	1155	9	9.5		1	X								X	X					06
7	B-3-SS-1.0	SL	G	12/11/19	0825	1	1.5		5							X	X	X	X	X	X	X		07
8	B-3-SS-3.0	SL	G	12/11/19	0835	3	3.5		1	X								X	X					08
9	B-3-SS-~~10.0~~9.0 AP	SL	G	12/11/19	0850	9	9.5		1	X								X	X					09
10	B-4-SS-1.0	SL	G	12/11/19	0900	1	1.5		5							X	X	X	X	X	X	X		10
11	B-4-SS-3.0	SL	G	12/11/19	0915	3	3.5		1	X								X	X					11
12	B-4-SS-~~10.0~~9.0 AP	SL	G	12/11/19	0940	9	9.5		1	X								X	X					12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	A. Piestrzeniewicz (H:A)	12/11/19	1530	FedEx	12/11/19	1530	1.4
				Harley	12/12/19	845	+0=
							1.4
							MY AG

4802 8629 9159

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: ADAM PIESTRZENIEWICZ
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 12/11/19

Temp in °C | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

RAD SCREEN: <0.5 mR/hr

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	Haley & Aldrich
Address:	2033 N Main St. Suite 309
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Email To:	jgrant@haleyaldrich.com
Phone:	925.949.4412 Fax:
Requested Due Date/TAT:	Stand. 5-day TAT

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Copy To:	apiestrzeniewicz@haleyaldrich.com
BSA #:	2015-18-Pace
H&A Client Name:	Steelwave
H&A Project #:	134361-002

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Attention:	Acounts Payable
Company Name:	Haley & Aldrich
Address:	70 Blanchard Rd. Ste. 204
Pace Quote Reference:	
Pace Project Manager:	Brian Ford/Jason Romer
Pace Profile #:	HALALDWCCA

X 12065 Lebanon Rd. Mount Juliet, TN, 37122 (National)
1700 Elm Street SE - Minneapolis, MN 55414
7726 Moller Road - Indianapolis, IN 46268

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING W
☐ UST ☐ RCRA ☐ _____

Site Location STATE: CA

Pace's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement #2015-18-Pace by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Pace Analytical Services, Inc.

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: Collection Info DATE	COLLECTED: Collection Info TIME	Sample Depth: Start Depth (Circle: feet or inches)	Sample Depth: End Depth (Circle: feet or inches)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	NaHS04	MeOH	Analysis Test Y/N	CA Title 22 Metals (6010B/7471A)	TPHd/mo (8015B)	Organochlorine Pesticides (8081A)	VOCs (8260B; 5035)	TPHg (8015; 5035)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-5-SS-1.0	SL	G	12/11/19	0950	1	1.5	SS	5							X	X		X	X	X	X	X		L1170116-13
2	B-5-SS-3.0	SL	G	12/11/19	0955	3	3.5	SS	1	X									X	X					14
3	B-5-SS-~~10.0~~ 9.0 MS	SL	G	12/11/19	1005	9	9.5	SS	1	X									X	X					15
4	~~B-6-SS-1.0~~	~~SL~~	~~G~~	~~12/11/19~~ MS																					
5	~~B-6-SS-3.0~~	~~SL~~	~~G~~	~~12/11/19~~ MS																					
6	~~B-6-SS-10.0~~	~~SL~~	~~G~~	~~12/11/19~~ MS																					
7	~~TRIP BLANK - 12.11.19~~	~~SO~~	~~C~~	~~12/11/19~~	~~1900~~	—	—	SS	5							X	X		X	X	X	X	X		
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	A. Piestrzeniewicz (H&A)	12/11/19	1530	FedEx	12/11/19	1530	1.4±
				Courtney	12/12/19	845	0=
							1.4
							N/A

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Adam Piestrzeniewicz
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12/11/19

Temp in °C | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

RAD SCREEN: <0.5 mR/hr

20-July-2015

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Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: HALALDWLCA	L1170116	
Cooler Received/Opened On: 12/12/19 Temperature:	1.4	
Received By: Hailey Melson		
Signature: Hailey Melson		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

DRAFT

ANALYTICAL REPORT

December 26, 2019

Haley & Aldrich - Walnut Creek, CA

Sample Delivery Group:	L1172914
Samples Received:	12/12/2019
Project Number:	134361-002
Description:	Steelwave

Report To:

Jason Grant
2033 N Main Street
Suite 309
Walnut Creek, CA 94596

Entire Report Reviewed By:

Brian Ford
Project Manager

DRAFT

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Ds: Detection Summary 5

Sr: Sample Results 6

B-1-SS-3.0 L1172914-01 6

B-2-SS-1.0 L1172914-02 7

B-4-SS-1.0 L1172914-03 8

Qc: Quality Control Summary 9

Metals (ICP) by Method 6010B 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

DRAFT

B-1-SS-3.0 L1172914-01 GW

Collected by: Adam P | Collected date/time: 12/11/19 11:05 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1401980	1	12/24/19 08:51	12/24/19 08:51	IDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1402510	9	12/26/19 09:01	12/26/19 10:40	TRB	Mt. Juliet, TN

B-2-SS-1.0 L1172914-02 GW

Collected by: Adam P | Collected date/time: 12/11/19 11:30 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1401980	1	12/24/19 08:51	12/24/19 08:51	IDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1402510	9	12/26/19 09:01	12/26/19 10:51	TRB	Mt. Juliet, TN

B-4-SS-1.0 L1172914-03 GW

Collected by: Adam P | Collected date/time: 12/11/19 09:00 | Received date/time: 12/12/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1401980	1	12/24/19 08:51	12/24/19 08:51	IDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1402510	9	12/26/19 09:01	12/26/19 10:54	TRB	Mt. Juliet, TN

DRAFT

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

DRAFT

Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
B-1-SS-3.0	L1172914-01	Chromium	94.2	B O1	12.6	90.0	9	12/26/2019 10:40	WG1402510
B-2-SS-1.0	L1172914-02	Lead	615		17.1	45.0	9	12/26/2019 10:51	WG1402510
B-4-SS-1.0	L1172914-03	Chromium	190	B	12.6	90.0	9	12/26/2019 10:54	WG1402510

DRAFT

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/24/2019 08:51	WG1401980
Final pH	5.12				1	12/24/2019 08:51	WG1401980

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chromium	94.2	B O1	12.6	90.0	9	12/26/2019 10:40	WG1402510

DRAFT

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/24/2019 08:51	WG1401980
Final pH	5.18				1	12/24/2019 08:51	WG1401980

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Lead	615		17.1	45.0	9	12/26/2019 10:51	WG1402510

DRAFT

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/24/2019 08:51	WG1401980
Final pH	5.07				1	12/24/2019 08:51	WG1401980

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chromium	190	B	12.6	90.0	9	12/26/2019 10:54	WG1402510

DRAFT

Method Blank (MB)

(MB) R3485951-1 12/26/19 10:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chromium	22.5	J	12.6	90.0
Lead	U		17.1	45.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3485951-2 12/26/19 10:34 • (LCSD) R3485951-3 12/26/19 10:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	1000	1070	1070	107	107	80.0-120			0.0324	20
Lead	1000	1110	1110	111	111	80.0-120			0.573	20

L1172914-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1172914-01 12/26/19 10:40 • (MS) R3485951-5 12/26/19 10:45 • (MSD) R3485951-6 12/26/19 10:48

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	1000	94.2	9530	9430	105	104	9	75.0-125			1.05	20
Lead	1000	28.8	10000	9970	111	110	9	75.0-125			0.525	20

DRAFT

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
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Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

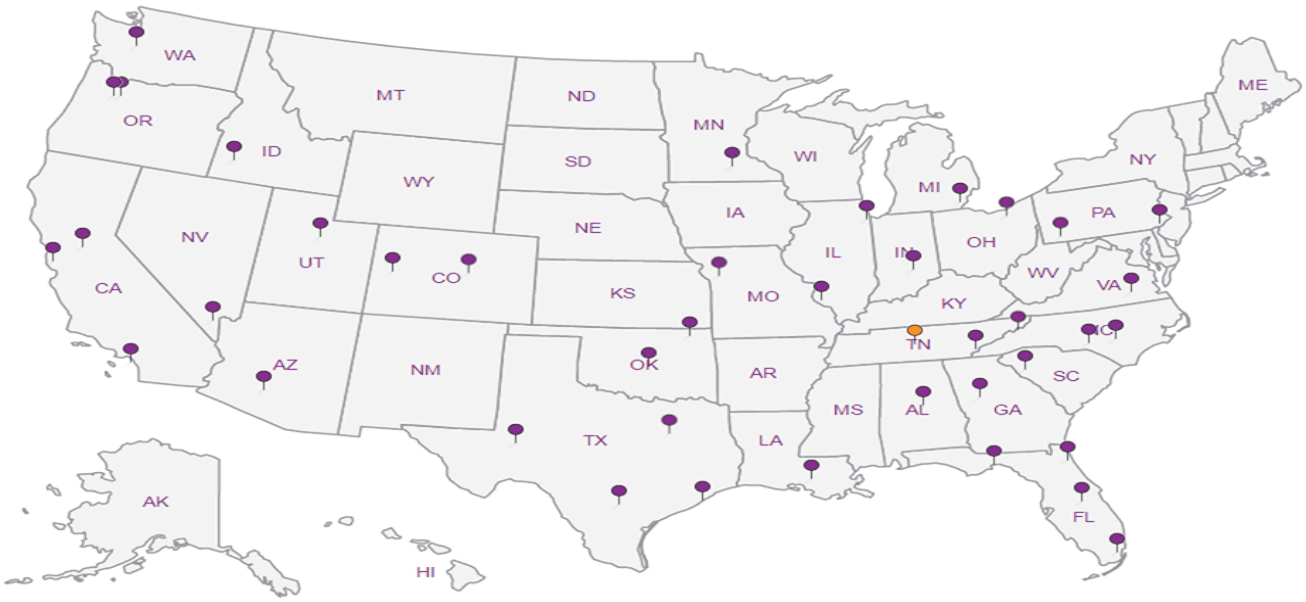
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



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Pace Analytical
www.pacelabs.com

HALEY ALDRICH

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

D091

Section A
Required Client Information:

Company:	Haley & Aldrich
Address:	2033 N Main St. Suite 309
	Walnut Creek, CA 94596
Email To:	jgrant@haleyaldrich.com
Phone:	925.949.4412 Fax:
Requested Due Date/TAT:	Stand. 5-day TAT

Section B
Required Project Information:

Report To:	jgrant@haleyaldrich.com
Copy To:	apiestrzeniewicz@haleyaldrich.com
BSA #:	2015-18-Pace
H&A Client Name:	Steelwave
H&A Project #:	134361-002

Section C
Invoice Information:

Attention:	Acounts Payable
Company Name:	Haley & Aldrich
Address:	70 Blanchard Rd. Ste. 204
Pace Quote Reference:	
Pace Project Manager:	Brian Ford/Jason Romer
Pace Profile #:	HALALDWCCA

X	12065 Lebanon Rd. Mount Juliet, TN, 37122 (National)
	1700 Elm Street SE - Minneapolis, MN 55414
	7726 Molier Road - Indianapolis, IN 46268

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING W
☐ UST ☐ RCRA ☐ _____

Site Location STATE: CA

Pace's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement #2015-18-Pace by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Pace Analytical Services, Inc.

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: Collection Info DATE	COLLECTED: Collection Info TIME	Sample Depth: Start Depth (Circle: feet or inches)	Sample Depth: End Depth (Circle: feet or inches)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	NaHSO4	MeOH	Analysis Test Y/N	CA Title 22 Metals (6010B/7471A)	TPHd/mo (8015B)	Organochlorine Pesticides (8081A)	VOCs (8260B, 5035)	TPHg (8015; 5035)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-1-SS-1.0	SL	G	12/11/19	1050	1	1.5		1	X									X	X	X				L1172914
2	B-1-SS-3.0	SL	G	12/11/19	1105	3	3.5		1	X									X	X					L1172916-01
3	B-1-SS-~~10.0~~ 9.0 MS	SL	G	12/11/19	1110	9	9.5		1	X									X	X					~~-02~~
4	B-2-SS-1.0	SL	G	12/11/19	1130	1	1.5		1	X									X	X	X				~~-03~~
5	B-2-SS-3.0	SL	G	12/11/19	1145	3	3.5		1	X									X	X					~~-04~~ -02
6	B-2-SS-~~10.0~~ 9.0 MS	SL	G	12/11/19	1155	9	9.5		1	X									X	X					~~-05~~
7	B-3-SS-1.0	SL	G	12/11/19	0825	1	1.5		5							X	X		X	X	X	X	X		~~-06~~
8	B-3-SS-3.0	SL	G	12/11/19	0835	3	3.5		1	X									X	X					~~-07~~ -03
9	B-3-SS-~~10.0~~ 9.0 MS	SL	G	12/11/19	0850	9	9.5		1	X									X	X					~~-08~~
10	B-4-SS-1.0	SL	G	12/11/19	0900	1	1.5		5							X	X		X	X	X	X	X		~~-09~~
11	B-4-SS-3.0	SL	G	12/11/19	0915	3	3.5		1	X									X	X					~~-10~~ -04
12	B-4-SS-~~10.0~~ 9.0 MS	SL	G	12/11/19	0940	9	9.5		1	X									X	X					~~-11~~ -05

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	A. Piestrzeniewicz (H&A)	12/11/19	1530	FedEx	12/11/19	1530	1.4		
				Hanley	12/12/19	845	2.0		
							1.4		
							NA		

4802 8629 9159

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ADAM PIESTRZENIEWICZ

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 12/11/19

RAD SCREEN: <0.5 mR/hr

Andy Vann

From: Brian Ford
Sent: Friday, December 20, 2019 12:38 PM
To: Project Service; Sample Storage; Brian Ford; TCLP; Metals Prep; Due Metals
Subject: L1170116 *HALALDWCCA* re-log ***Rush***

Please re-log the following as R4 due 12/26pm.

L1170116-02 (B-1-SS-3.0): STLC CRICP
L1170116-04 (B-2-SS-1.0): STLC PBICP
L1170116-10 (B-4-SS-1.0): STLC CRICP

Thanks,

Brian Ford
Project Manager
Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
direct 615.773.9772 | cell 615.881.4570
bford@pacenational.com | pacenational.com

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Groundwater Sampling Report

Former Peerless Lighting, Case File Nos. 01-1147 & 01S0490 (CCM), GeoTracker ID No. T0600101057

Report | 2220 Fourth Street, Berkeley, California

04.00163392-PR-001 00 | December 21, 2020
Final

Herst Ventures Inc.

Document Control

Document Information

Project Title	Former Peerless Lighting
Document Title	Groundwater Sampling Report
Fugro Project No.	04.00163392
Fugro Document No.	04.00163392-PR-001
Issue Number	00
Issue Status	Final
Fugro Legal Entity	Fugro USA Land, Inc.
Issuing Office Address	1777 Botelho Drive, Suite 262, Walnut Creek, California 94596

Client Information

Client	Herst Ventures Inc.
Client Address	2220 Fourth Street, Berkeley, California 94710
Client Contact	Mr. Doug Herst

Revision History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
00	Dec. 21, 2020	Final	--	KET	KET/JNA	JNA

FUGRO
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, California 94596
T+1 925 949 7100

Herst Ventures Inc.
Via email

December 21, 2020

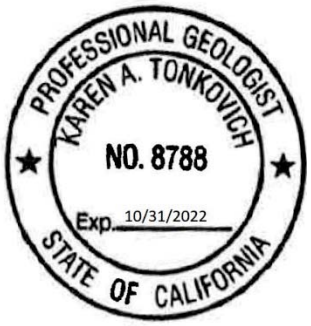
Attention: Mr. Doug Herst

Groundwater Sampling Report, Former Peerless Lighting, 2220 Fourth Street, Berkeley, California, SFRWQCB Case File Nos. 01-1147 and 01S0490 (CCM), GeoTracker ID No. T0600101057

Dear Mr. Herst,

With this letter, Fugro presents the results of the recent groundwater sampling event conducted to evaluate subsurface conditions below the Former Peerless Lighting property located at 2220 Fourth Street in Berkeley, California. Fugro completed the field activities to provide further characterization of groundwater conditions below and in the vicinity of the Site. This report also includes information requested by the San Francisco Bay Regional Water Quality Control Board during the meetings held in December 2019 and January 2020, and as documented in their letter dated January 16, 2020 *Requirement for Report on Groundwater Monitoring and Sampling Results and Evaluation of Low Threat Closure Criteria*. If you should have any questions or comments regarding the information contained in this report, please feel free to contact Jeriann Alexander at (510) 610-8052.

Sincerely,



Karen A. Emery-Tonkovich, PG
Principal Geologist

Jeriann Alexander, PE, REPA
Principal Engineer

Distribution: One electronic copy to Mr. Doug Herst
One electronic copy to Mr. Nicholas Targ (Holland & Knight), and
One electronic copy to Ms. Cherie McCaulou (SFRWQCB)

Executive Summary

With this report, Fugro summarizes the groundwater sampling event conducted to evaluate subsurface conditions below the Former Peerless Lighting property located at 2220 Fourth Street in Berkeley, California (Site, Figure 1). The Site is owned by Herst Ventures, Inc. and is under the regulatory oversight of the San Francisco Bay Regional Water Quality Control Board (SFRWQCB). This work was completed in general accordance with Fugro's scope of work dated March 5, 2020 which included the following tasks:

- Inventory of monitoring wells and piezometers installed at the Site to determine the condition of the wells and piezometers for collection of groundwater samples;
- Collect and analyze groundwater samples for petroleum hydrocarbon (TPH) compounds (including BTEX, naphthalene, MTBE), semi-volatile organic compounds (SVOCs), and volatile organic compounds (VOCs).
- Evaluate the petroleum hydrocarbon data against the State's Low-Threat Underground Storage Tank (UST) Case Closure Policy (LTCP);
- Evaluate the SVOC and VOC data against the SFRWQCB's Assessment Tool for Closure of Low-Threat Chlorinated Solvent Sites; and
- Preparation of a summary report for submittal to the SFRWQCB.

The main chemicals of concern (COCs) at the Site are pentachlorophenol (PCP), pesticides, and petroleum hydrocarbons. The primary source of the COCs is attributed to releases associated with the former pest control businesses that previously occupied the property. These businesses reportedly stored, mixed, and repackaged termite control chemicals including aqueous PCP in a hydrocarbon (kerosene and diesel) matrix and aqueous chlordane in a hydrocarbon matrix. Previous investigations at the Site have identified the presence of these compounds in both soil and groundwater within and downgradient of the pesticide contaminated soil excavation area (Figure 2), which was located in a previously unpaved area of the former warehouse.

Similar to previous findings, results of Fugro's October 2020 groundwater sampling event have identified elevated concentrations of various TPH, VOCs, SVOCs, and pesticides in groundwater below the Site. Concentrations detected exceed SFRWQCB screening thresholds, however, they have generally decreased over the past 30 years. It is Fugro's opinion that existing Site and subsurface conditions are effectively limiting the mobility of the groundwater plume below the Site. Additionally, the concrete floor slab and foundation system, which were constructed in 1989, are acting to limit infiltration of surface water, which in turn serves to normalize or stabilize groundwater fluctuations below the structure. These circumstances, when viewed in conjunction with the chemical data, strongly supports the finding that the plume is stable.

The existing physical barriers and institutional controls effectively limit routine human contact with the impacted soils and groundwater. Therefore, in their present state, residual impacts present below the Site do not appear to be posing a significant risk to human health and the environment.

Regarding the SFRWQCB request to **"Evaluate the petroleum hydrocarbon data against the State's Low-Threat UST Case Closure Policy"**, our research and assessment of existing data do not support a finding that an unauthorized release occurred from the previous UST. The samples collected from the likely location of the former UST detected TPH at 10 milligrams per kilogram (mg/kg). This data coupled with the known impacts in the area resulting from chemical management practices by the past pesticide businesses strongly suggests any impacts in the former UST area is more likely due to other past practices at the Site. As a result, it is Fugro's conclusion that the UST location should be considered closed.

Regarding the SFRWQCB request to **"Evaluate the SVOC and VOC data against the SFRWQCB's Assessment Tool for Closure of Low-Threat Chlorinated Solvent Sites"**, our research and assessment of existing data have identified that the main COCs at the Site are PCP, chlordane, and petroleum hydrocarbons which are related to releases associated with the former pest control businesses that previously occupied the property. Previous investigations at the Site have identified the presence of these compounds in both soil and groundwater upgradient, within, and downgradient of the pesticide contamination soil excavation area. It should also be noted that previous investigations have also identified the presence of various VOCs including 1,1,1-Trichloroethane, 1,1-Dichloroethane, and other cleaning, cutting, and painting solvents. These solvents have been shown to exist throughout the Site vicinity and the existing and prior use of the Site do not suggest that the solvents would have been used. These solvents have not been detected in Site soils at concentrations that would suggest the presence of a source area at the Site. As a result, the source of the VOCs in groundwater below the Site is attributed to plumes from unknown sources. Although, the limits of SVOC and VOCs contamination have not been defined in all directions, there are controls in place which we believe are applicable and relevant to control any further adverse impacts to human health and the environment.

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1. Introduction

With this report, Fugro summarizes the groundwater sampling event conducted to evaluate subsurface conditions below the Former Peerless Lighting property located at 2220 Fourth Street in Berkeley, California (Site, Figure 1). The Site is owned by Herst Ventures, Inc. and is under the regulatory oversight of the San Francisco Bay Regional Water Quality Control Board (SFRWQCB).

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- Evaluate the SVOC and VOC data against the SFRWQCB's Assessment Tool for Closure of Low-Threat Chlorinated Solvent Sites; and
- Preparation of a summary report for submittal to the SFRWQCB.

2. Site Description

The Site is situated at an elevation of approximately 20 feet above mean sea level and is located in an area of West Berkeley with a known history of commercial and industrial uses extending back to the early 1900s. The Site is located within a block bounded by Fourth Street to the east, Bancroft Way to the south, Allston Way to the north, and the Union Pacific Railroad right-of-way (UPRR ROW) to the west. The Site is completely occupied by a high one-story warehouse with a concrete slab covering the entire building footprint. The warehouse-type building is bordered to the north and south by other warehouse space also owned by Herst Ventures.

The UPRR ROW located immediately west of the Site is comprised of two main, high traffic rail lines and several old railroad sidings. A change in grade of about 4 to 6 feet exists between the location of the main rail lines and the floor slab of the current Site warehouse; the floor slab is elevated above the rail lines. The change in grade is accommodated by a narrow slope or embankment which extends from the west side of the building down to the location of a utility raceway located at the same grade as the main rail lines. The embankment is covered with vegetation. On the west side of the UPRR ROW, the grade rises about 4 feet to the grade of the adjacent properties. The Site area is shown on Figure 2.

3. Background and Operational History

Prior to the Site being purchased in 1981 by a predecessor of Herst Ventures Inc. (Herst Lighting Corp., d.b.a. Peerless Electric Company), the 2220 Fourth Street parcel was used by a variety of pest control businesses from 1952 to 1981. These companies included Able Termite Control Company, Able Termite Control, Inc., Terminix Norcal, and its successor Terminix International. A warehouse with a reported partially paved floor area surrounded by unpaved areas was located on the west side of the property, and a parking lot was located on the east side of the property. The pest control businesses reportedly stored, mixed, and repackaged termite control chemicals including aqueous pentachlorophenol (PCP) in a hydrocarbon (kerosene and diesel) matrix and aqueous chlordane in a hydrocarbon matrix.

In 1981, Peerless Electric Company (Peerless) acquired the 2220 Fourth Street parcel and surrounding property from Terminix. Peerless became aware of contamination after it purchased the Site due to unpleasant odors and stains observed in the unpaved area of the former termite control warehouse where chemicals had been stored.

In 1984, voluntary remedial efforts were undertaken under the supervision of the City of Berkeley Department of Health Services to remove pesticide contaminated soils within the unpaved area of the former termite control company warehouse building. A letter dated December 28, 1984 from the City of Berkeley Department of Health Services[1] stated that the City had reviewed the test results submitted by Brown and Caldwell on the second set of post clean-up samples taken at the Site, and the City recommended that Peerless proceed with backfilling of the excavation area. The excavation area was backfilled with imported soil, and the impacted soils were transported offsite as hazardous waste to a permitted landfill. This work was approved by the Department of Health Services, Toxic Substances Control Division (DHS; predecessor to the DTSC). The location of the pesticide impacted soil excavation area is shown on Figure 2.

In 1987, Peerless identified that one UST may have been located in the parking lot east and adjacent to the former warehouse building. A UST removal permit was obtained from the City of Berkeley and excavation of soils at the location of the suspected UST was conducted, however a tank was not found. Two soil samples were collected from the base of the excavation (depth unknown) with TPH[2] reported in one of the two samples at a concentration of 10 milligrams per kilogram (mg/kg). Soil samples were also collected from the stockpiled soil and a TPH concentration of 1,800 mg/kg was reported. The City allowed the soil to be aerated onsite and a confirmation sample was collected following soil aeriation activities. According to the 2003 DTSC's PAR, the confirmation sample reported 14 mg/kg of TPH. As a result, the City allowed the

[1] City of Berkeley Department of Health Services letter included in the Department of Toxic Substances (DTSC) 2003 Preliminary Assessment Report (PAR).
[2] Given the date of the testing it appears this was measuring both gasoline and diesel range petroleum hydrocarbons.

soil to be used to backfill the excavation area. The location of the suspected UST is shown on Figure 2.

Following the pesticide soil removal action and suspect UST excavation, the Site was redeveloped into the current warehouse configuration. As-built drawings for the current warehouse structure dated August 15, 1988 (MBT Associates) show that the new structure was to be founded on a system of concrete piers and grade beams. In addition, import fill materials were to be used to raise site grades to provide a layer of non-expansive soil below the new slab. The drawings suggest that 20-inch diameter, 15 to 20-foot deep piers were to be extended at various locations around the perimeter of the new structure to provide foundation support. City building inspection records indicate that pier holes were completed in early 1989 and the warehouse structure was finished and occupied.

The property has two cases listed in the State's GeoTracker database; Case No. 01-1147 is associated with petroleum UST impacts and Case No. 01S0490 is associated with non-petroleum impacts, primarily pesticides and solvents. Several phases of voluntary soil and groundwater investigations have been conducted by Fugro and others, both onsite and in the immediately adjacent UPRR ROW.

Investigations conducted by both Herst Ventures and UPRR support the finding that impacts to soil and groundwater due to releases of termite control compounds occurring from past operations at the Site are localized to subsurface materials that are covered with structurally reinforced concrete slabs and thickened foundation systems, or are located within and below the immediately adjacent embankment and UPRR ROW, which reside in a land/public use restricted area owned by the UPRR. The existing physical barriers and institutional controls effectively limit routine human contact with impacted soil and groundwater at the Site. Further, the presence of the floor slab constructed in 1989 acts as a cap over the Site and provides modest control of groundwater level changes over time, as it acts to impede groundwater infiltration.

4. Environmental Setting

4.1 Regional Setting

The City of Berkeley is located within the San Francisco Bay plain. The toe of the Berkeley Hills lies approximately 7.5 miles to the northeast. These hills are part of the Diablo Range, a small mountain range that separates the San Francisco Bay from the San Joaquin Valley. These features are part of a series of small basins and ranges within the Coast Ranges of California. The Site is located about 450 feet east of the shoreline of a small inlet within the San Francisco Bay, which was formerly known as the Berkeley Embayment. The historical shoreline has typically been extended westward by fill placement during the past 140 years. Locally, fill placement in

the early 1930's for highway construction isolated what is now Aquatic Park from open bay waters.

Geologic mapping by Radbruch (1957) indicates that the Site is underlain by thick alluvial deposits of the Temescal Formation. These alluvial deposits typically consist of well-consolidated, inter-fingered layers of gravel, sand, silt, and clay derived from erosion of the Berkeley Hills. These deposits are thickest at the foot of the Berkeley Hills and become thinner toward the shoreline.

4.2 Soil Conditions

Previous studies (Mark Group and Subsurface Consultants, Inc. [a wholly owned subsidiary of Fugro]) indicate that the Site building is underlain by up to 4 to 5 feet of fill underlain by alluvial soils. The fill comprises dark brown sandy and silty clays and is noted to contain minor amounts of wood and other debris. The alluvium comprises alluvial fan materials carried down from the Berkeley Hills formations. Below the Site the alluvium consists of interbedded layers of medium stiff to stiff silty clays and clayey silts, and dense clays, sands and cobbles.

The depth and consistency of the fill, and the depth to the alluvium below the railroad grade is more difficult to ascertain, as studies to date have not successfully evaluated existing conditions to determine this data. The fill below the railroad grade is compressed due to loading and appears to contain appreciable ballast materials, cobbles, and concrete rubble.

4.3 Groundwater Conditions

The general groundwater flow direction is to the west, toward Aquatic Park, located approximately 450 feet west of the Site. Past studies have inferred a groundwater flow direction toward the northwest; however, these studies did not address the significant influence rainfall and storm water infiltration have within the area of the exposed adjacent UPRR ROW and other areas of the Site where water is allowed to infiltrate. It is a well-known phenomenon that surface water infiltration locally alters flow directions in a very limited manner. Based on a review of the current Site conditions and a review of historic field notations by other consultants, it is clear that water historically builds up and ponds on Site and within the UPRR ROW during storm events. This build-up and ponding of water alters the local gradient by impeding flow away from the Site during winter months.

During UPRR studies in 1994 and 1995, water was encountered at very shallow depths (3 to 5 feet bgs) in the boreholes that extended through the railroad grade, and was ponded in areas along the rail lines at low points and near where storm water flow ditches channel water to the railroad grade. Disregarding data from wells influenced locally by infiltration and observing the difference in depth to groundwater below the Site and the water depth encountered within the

railroad right-of-way near the lines, we believe the gradient should be considered as nearly flat during the winter months.

Conversely, the gradient is steeper during the summer months. As observed during studies conducted in 2006 by Fugro, the difference between stabilized water levels within the Site wells and the stabilized depth of water in boring HA-1 (measured the day after drilling) was on the order of 5 to 6 feet, with a general flow direction to the west.

5. Groundwater Sampling Activities

5.1 Well Inventory

On September 29, 2020, Fugro conducted a well inventory at the Site to identify and document the conditions and accessibility of existing monitoring wells and temporary wells / piezometers. Previous information obtained from other environmental consultant's reports note that there were ten (10) monitoring wells (W-1 through W-4 and M-1 through M-6) and four (4) temporary wells / piezometers (S-7 through S-10) located within or immediately adjacent to the Site.

Based on available Site documents, Fugro suspects that wells W-1 through W-4 were previously destroyed during building demolition and redevelopment activities sometime between 1987 and 1989. No evidence of their presence was observed during Fugro's September 2020 well inventory reconnaissance. In addition, it appears that tenant improvements at the Site have added interior walls that have sealed off areas of the building such that well M-3 is no longer accessible.

Fugro's reconnaissance has confirmed the presence of nine accessible wells including M-1, M-2, M-4, M-5, M-6, and S-7 through S-10. At each location, Fugro was able to open the well lid, sound the depth to groundwater, and sound the depth to bottom using a weighted tape and/or a Solinst water level meter. No separate phase petroleum liquid or free product was observed; however, we note that odors were observed in wells S-7 through S-10. In addition, we note that sediment was present in the bottom of wells M-1 and S-7 through S-10.

Well construction details are summarized in Table 1. The locations of the current and former wells are shown on Figure 2.

5.2 Groundwater Sampling

Fugro conducted sampling activities between October 14 and 19, 2020. To provide data on the apparent lateral extent of groundwater impacts, Fugro collected samples from wells M-1, M-2, M-4, M-5, and S-7 through S-10. Groundwater monitoring, sampling, and observation activities were conducted using standard industry practices regarding worker health and safety, sample collection and handling, and chain-of-custody documentation.

On October 14, 2020, Fugro initially measured the depth to groundwater in all accessible wells using a water level indicator probe. Depth to water ranged from 9.52 feet below top of casing (BTOC) to 12.82 feet BTOC with corresponding groundwater elevations of 12.37 to 16.15 feet NAVD88.

No separate phase petroleum liquid or free product was detected during this event. Depth to water and groundwater elevation information is summarized in Table 2.

All groundwater sampling was conducted in accordance with low-flow techniques as detailed by the Environmental Protection Agency (EPA) Low Stress (Low Flow) Purging and Sampling Procedure (2017). Wells M-1, M-2, M-4, M-5, and S-7 through S-10 were purged at low-flow rates while continuously monitoring for changes in water pH, dissolved oxygen (DO), conductivity, and temperature using a YSI flow-through cell. For wells, M-1, M-2, M-4, and M-5, purging at the low rate did not result in appreciable groundwater drawdown and Fugro was able to purge approximately three well volumes from each well. Once parameters stabilized, purging was stopped, and groundwater samples were obtained. For wells S-7 through S-10, these wells were purged dry after approximately one to two well volumes were removed. Samples from these wells were subsequently obtained on October 15 and 19, 2020, following periods of time to allow for sufficient groundwater recharge to provide samples.

Groundwater samples were retained in pre-cleaned containers provided by the laboratory in accordance with EPA protocols. All sampling containers were uniquely labeled and placed in an ice-filled cooler, pending delivery to the testing laboratory under chain of custody documentation. Sampling forms, which document field collected data, are presented in Appendix A.

Purge water was temporarily stored onsite in a U.S. Department of Transportation (DOT)-approved 55-gallon drum which was removed on November 23, 2020, under a non-hazardous waste manifest. A copy of the non-hazardous waste manifest is presented in Appendix B.

5.3 Well Survey

On November 11, 2020, a survey of all accessible wells (M-1, M-2, M-4 through M-6, and S-7 through S-10) was performed by a State of California licensed land surveyor. At these well locations, the well box rim and top of casing were surveyed with the coordinate system based on CSCS Zone III NAD83, Epoch 2017.50 (Horizontal Datum) and Benchmark Elevation of 22.10 feet NAVD88 (Vertical Datum). A copy of the surveyor's report showing the latitude, longitude, and elevation of each well box rim and top of casing is presented in Appendix C.

6. Chemical Testing Program

Fugro submitted a total of eight groundwater samples to McCampbell Analytical, Inc. in Pittsburg, California (ELAP #1644) under chain-of-custody documentation. The eight samples were analyzed for the following:

- TPH within the gasoline, diesel, and motor oil ranges (TPHg, TPHd, and TPHmo) using EPA Method 8015m with silica gel clean-up;
- Organochlorine Pesticides including Chlordane using EPA Method 8081a;
- VOCs using EPA Method 8260b; and
- SVOCs including Polyaromatic Hydrocarbons (PAHs), Naphthalene, and PCP using EPA Method 8270c.

7. Analytical Results

Analytical results for samples collected in October 2020 are summarized in Table 3. Analytical results for groundwater were compared to the SFRWQCB's Tier 1 Environmental Screening Levels (ESLs) and ESLs for a Groundwater Vapor Intrusion Human Health Risk Level – Commercial / Industrial Land Use (Table GW-3) established in July 2019. Copies of the laboratory reports with chain-of-custody documentation are presented in Appendix D.

7.1 Data Quality Assessment

Fugro completed a Data Quality Assessment (DQA) as part of this sampling event. Fugro's DQA examined the quality of the data and determines if data sets are useable and if the data will satisfy internal Data Quality Objectives (DQO) for the project. All groundwater samples were submitted under chain-of-custody procedures to McCampbell Analytical, Inc. in Pittsburg, California.

Fugro has reviewed each laboratory report for this project. Fugro's review includes a review of the laboratory's test results and their quality assurance data to assess whether the data is of sufficient quality to meet the DQOs. Data which has been deemed by Fugro to be below the DQO have not been included in the discussions below. Fugro's DQA summary for each laboratory report is presented in Appendix D.

7.2 Analytical Results - Groundwater

Analyses detected TPHg in 3 out of 8 wells at concentrations ranging between 130 micrograms per liter (µg/L) at well M-2 to 4,700 µg/L (S-10). TPHd were identified in 6 out of 8 wells, with concentrations ranging between 120 µg/L (S-9) to 27,000 µg/L (S-10). Analyses only detected

TPHmo in two wells, M-2 and M-7, both at 530 µg/L. All detected TPH concentrations exceeded their respective Tier 1 ESL of 100 µg/L. No commercial/industrial groundwater vapor intrusion ESL has been established for TPH analytes.

Analyses detected up to 16 µg/L of total xylenes in two of the wells sampled (M-4 and S-10, located immediately downgradient of the suspected UST area. Detected total xylenes were below the Tier 1 ESL of 20 µg/L. Benzene, toluene, ethylbenzene, or MTBE were not detected above laboratory reporting limits in any well sampled. We note that in the case of benzene, the laboratory's reporting limit is above the Tier 1 ESL. For MTBE at S-7, we note that there was matrix interference which resulted in elevated laboratory reporting limits.

Various other VOCs were also detected in six of eight wells samples (M-1, M-2, M-4, M-5, S-7 and S-10) including trichloroethene (TCE; up to 56 µg/L), cis-1,2-Dichloroethene (cis-DCE; up to 12 µg/L), trans-1,2-Dichloroethene (trans-DCE; 2.1 µg/L), 1,1-Dichloroethene (1,1-DCE; up to 24 µg/L), 1,1-Dichloroethane (1,1-DCA; up to 42 µg/L), 1,2-Dichloroethene (1,2-DCA; 1.8 µg/L), methyl isobutyl ketone (MIBK; up to 7,900 µg/L), and 1,2,4-Trimethylbenzene (0.72 µg/L). Of these VOCs, TCE, cis-DCE, 1,1-DCA, 1,2-DCA, 1,1-DCE, and MIBK exceeded respective Tier 1 ESLs and/or commercial/industrial groundwater vapor intrusion ESL in one or multiple wells.

In addition, one or more SVOCs was detected in all wells with the exception of M-5. Detected SVOCs include anthracene, benzo(a)pyrene, bis(2-ethylhexyl)phthalate, butylbenzyl phthalate, di-n-butyl phthalate, diethyl phthalate, fluoranthene, PCP, 2,4,5-trichlorophenol, and 1-methylnaphthalene. Analyses did not detect naphthalene above the laboratory's reporting limit in any of the eight samples analyzed.

Of the SVOCs detected, only benzo(a)pyrene and PCP exceeded their respective Tier 1 ESLs. Benzo(a)pyrene was detected at a concentration of 0.025 µg/L in S-9, exceeding the Tier 1 ESL of 0.014 µg/L. PCP was detected in M-1, M-2, M-4, and S-7 through S-10 at concentrations ranging between 0.37 µg/L (M-4) to 26,000 µg/L (S-7), above the Tier 1 ESL of 1.0 µg/L. We note that for the PCP detected in S-7 (26,000 µg/L) and S-10 (2,900 µg/L) the laboratory noted that the groundwater samples contained greater than 1% volume of sediment. As a result, these results may be biased high. For select SVOC analytes, we note that matrix interference resulted in laboratory reporting limits that were above their respective Tier 1 ESLs.

Lastly, analyses detected organochlorine pesticides including aldrin, dieldrin and delta-Hexachlorocyclohexane (d-BHC) in samples collected from wells M-1, M-2, and S-9. Of the detected pesticides, aldrin in M-2 (0.12 µg/L) and dieldrin (up to 1.6 µg/L) exceeded their respective Tier 1 ESLs but were well below their respective commercial/industrial groundwater vapor intrusion ESLs. We note that chlordane and heptachlor epoxide were not detected in any wells sampled during this event.

8. Regulatory Compliance Evaluation

As discussed with the SFRWQCB in December 2019 and January 2020, and as requested in the SFRWQCB's *Requirement for Report on Groundwater Monitoring and Sampling Results and Evaluation of Low Threat Closure Criteria* letter, dated January 16, 2020 (Appendix E), several activities are required to bring the Site into regulatory compliance. A brief discussion of each compliance item is presented below.

8.1 Inventory of Groundwater Monitoring Wells and Piezometers

As discussed in Section 5.1, Fugro conducted a well inventory at the Site in September 2020 to identify and document the conditions and accessibility of existing monitoring wells and temporary wells / piezometers. Fugro's reconnaissance has confirmed the presence of wells M-1, M-2, M-4 through M-6, and S-7 through S-10. At each location, Fugro was able to open the well lid, sound the depth to water, and sound the depth to bottom of using a weighted tape and/or a Solinst water level meter. We suspect that wells W-1 through W-4 were previously destroyed during building demolition and redevelopment activities sometime between 1987 and 1989 as no evidence of their presence was observed during Fugro's well inventory reconnaissance. In addition, it appears that tenant improvements at the Site have made well M-3 no longer accessible.

8.2 Collection and Analysis of Groundwater Samples for Various Constituents

Fugro collected and analyzed groundwater samples from eight wells, M-1, M-2, M-4, M-5, and S-7 through S-10, for these contaminants of concern (COCs) as well as for organochlorine pesticides. Results of the sampling event indicate that elevated concentrations of various TPH, VOCs, SVOCs, and pesticides were identified in groundwater below the Site, with various detected compounds above SFRWQCB screening thresholds.

We note that of the BTEX compounds, only total xylenes were detected in two of the eight sampled wells at concentrations well below Tier 1 ESLs. Further, no detectable concentrations (above laboratory reporting limits) of MTBE, naphthalene, or chlordane were identified in any of the samples analyzed.

Elevated concentrations of PCP are still present in groundwater below the Site and are predominately located along the western Site boundary, in and downgradient of the pesticide contaminated soil excavation area.

8.3 Evaluate the TPH Data Against the State's Low-Threat UST Case Closure Policy

In 2012, the State Water Resources Control Board (SWRCB) - adopted the LTCP (Resolution No. 2012-0062) which outlines eight general criteria and three categories of media-specific criteria a

Site evaluation must satisfy to be a candidate for closure under the policy. For the reasons stated below, Fugro does not believe there is evidence that there was an unauthorized release from the former UST location. The samples collected from the likely location of the former UST detected TPH at 10 mg/kg which does not suggest a release occurred. As a result, it is Fugro's conclusion that the UST location should be considered closed.

Whether there was or was not an unauthorized release aside, to comply with the SFRWQCB request, we briefly summarize whether Site conditions at the former UST location may satisfy the State's LTCP General Criteria. Media Specific Criteria have not been evaluated as there is no current evidence of a release from the former UST.

GENERAL CRITERIA

Criteria a - The unauthorized release is located within the service area of a public water system.

There is no current evidence that there was an unauthorized release from the former UST.

The Site is located within the service area of the East Bay Municipal Utility District (EBMUD). Based on our review of the publicly available Well Completion Reports obtained from the State of California's Department of Water Resources, no known municipal or domestic water supply wells are located at, or within 1,500 feet of the Site. The affected groundwater is not currently being used as a source of drinking water and is not likely to be used as a drinking water source in the foreseeable future. Based on this information, if there is a need to satisfy General Criteria a, there is information to indicate it can be satisfied.

Criteria b - The unauthorized release consists only of petroleum.

There is no current evidence that there was an unauthorized release from the former UST.

As discussed previously, in 1987, Peerless indicated that one UST may have been located in the parking lot adjacent to warehouse building. A UST removal permit was obtained from the City of Berkeley and excavation of soils at the location of the suspected UST was conducted, however a tank was not found. Low levels of TPH were detected in excavated spoils which were successfully aerated and reused in the excavation area. The presence of contaminated spoils more likely are a result of other past Site releases associated with the pest control businesses which operated at the Site. As summarized in Table 4, previous investigations at the Site have identified the presence of both diesel and kerosene hydrocarbon fractions (up to 350 mg/kg and 6,100 mg/kg, respectively) in soil samples collected downgradient of the pesticide contaminated soil excavation area (shown on Figure 2). Based on this information, Fugro believes that the presence of hydrocarbons in soil and groundwater at the Site are a result of releases associated with storage and mixing practices in the unpaved warehouse area associated with the pest control businesses and are not a result of releases from a UST.

As a result, General Criteria b is not applicable to the former UST area.

Criteria c - The unauthorized ("primary") release from the UST system has been stopped.

There is no current evidence that there was an unauthorized release from the former UST.

As a result, General Criteria c is not applicable to the former UST area.

Criteria d - Free product has been removed to the maximum extent practicable.

There is no current evidence that there was an unauthorized release from the former UST.

Based on a review of all the Site data, there is no evidence of any free product release or any release from the former UST. As a result, General Criteria d has been met.

Criteria e - A Conceptual Site Model that assesses the nature, extent, and mobility of the release has been developed.

There is no current evidence that there was an unauthorized release from the former UST.

Potential exposure pathways do not exist. As a result, General Criteria e is not applicable to the former UST area.

Criteria f - Secondary source has been removed to the extent practicable.

There is no current evidence that there was an unauthorized release from the former UST.

Given that the former UST location was located immediately adjacent to areas of known soil contamination within similar petroleum hydrocarbon ranges, it appears more likely than not that there was no unauthorized release from the former UST, but rather contamination in the area of the former UST was a result of past pesticide business activities. This point aside, soils in the area of the former UST were properly managed and remediated per DTSC and City of Berkeley approval.

As a result, General Criteria f has been met.

Criteria g - Soil and groundwater has been tested for MTBE and the results reported in accordance with Health and Safety Code Section 25296.15.

There is no current evidence that there was an unauthorized release from the former UST.

MTBE has not been analyzed in any of the soil samples collected within the limits of the Site or within the UPRR ROW. MTBE was analyzed in groundwater samples collected in October 2020 in accordance with HSC Section requirements. Analyses detected no MTBE above the laboratory detection limit in any of the groundwater samples collected.

Since MTBE has not been analyzed in soil, General Criteria g has not been met.

Criteria h - Does a nuisance exist as defined by Water Code Section 13050.

No nuisance exists at the Site, as defined by Water Code Section 13050. Current site conditions are not injurious to health, are not indecent or offensive to the senses, and do not obstruct free use of property or interfere with the comfortable enjoyment of life or property. Site conditions do not affect an entire community or neighborhood, or any considerable number of persons. As a result, General Criteria h has been met.

8.4 Evaluate the SVOC and VOC Data Against the SFRWQCB's Assessment Tool for Closure of Low-Threat Chlorinated Solvent Sites

In 2009, the SFRWQCB issued the Assessment Tool for Closure of Low-Threat Chlorinated Solvent Sites which outlines nine criteria for evaluating when and if a chlorinated solvent site could be closed. The following briefly summarizes Site conditions against the SFRWQCB's "low-threat closure" criteria.

1. **Develop a complete Conceptual Site Model (CSM)**

   a. **Pollutant Sources are identified and evaluated.**
   The main COCs at the Site are PCP, chlordane, and petroleum hydrocarbons. The primary source of the COCs is attributed to releases associated with the former pest control businesses that previously occupied the property. These businesses reportedly stored, mixed, and repackaged termite control chemicals including aqueous PCP in a hydrocarbon (kerosene and diesel) matrix and aqueous chlordane in a hydrocarbon matrix. As summarized in Tables 4 and 5, previous investigations at the Site have identified the presence of these compounds in both soil and groundwater upgradient, within and downgradient of the pesticide contamination soil excavation area. Fugro believes that the presence of these COCs in soil and groundwater at the Site are a result of releases associated with storage and mixing practices in the unpaved warehouse area associated with the pest control businesses.

   It should also be noted that previous investigations have also identified the presence of various VOCs including 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-DCA, and other cleaning, cutting, and painting solvents. These solvents have been shown to exist throughout the Site vicinity. These solvents have not been detected in Site soils at concentrations that would suggest the presence of a source area at the Site. As a result, the source of the VOCs in groundwater below the Site is attributed to plumes from unknown sources.

   b. **The Site is adequately characterized.**
   Fugro and others have completed various investigations at and in the vicinity the Site between the 1980s and mid-2000s. In addition, groundwater monitoring wells have

also been occasionally sampled with the most recent testing completed in October 2020.

Current sampling results, as summarized in Table 3, demonstrate that elevated concentrations of VOCs and SVOCs including PCP remain present in soil and groundwater below the Site. However, we note that as summarized in Table 5, detected concentrations appear to be decreasing in groundwater wherein select wells it has been observed decreases by an order of magnitude. For example, PCP concentrations in well M-1 are currently 430 µg/L, down from a high of 5,000 µg/L in 1993. At M-2, PCP was reported at 9,000 µg/L in 1994 and current PCP concentration in this well has reduced to 3,600 µg/L.

Detected concentrations of SVOCs in groundwater are bounded to the east given that low concentrations of only a few select analytes were identified at M-4, and no detectable concentrations of SVOCs were reported at M-5. However, the limits of SVOC impacts in groundwater are not defined to the north or south given the current Site configuration and lack of wells in those areas. In addition, SVOC limits in groundwater have not been defined west of the Site.

As discussed above, we believe that VOC impacts in groundwater are attributed to offsite and upgradient sources as concentrations of VOCs in soil (if detected) do not suggest the presence of a source area at the Site.

c. **Exposure pathways, receptors, and potential risks, threats, and other environmental concerns are identified and assessed**.
Based on review of California Department of Water Resources well records, no water supply wells were identified within a 1,500-ft radius of the Site. We note that investigations completed by Fugro and others have identified residual PCP and pesticide impacted soil within the UPRR ROW to the immediate west of the Site, however these impacts are in an area of public use restricted land. Therefore, the only potential human exposure pathway currently identified is inhalation from indoor air for the onsite worker and ingestion, inhalation and absorption to contaminated materials by UPRR maintenance workers which may come into contact with contaminated materials. These pathways are considered as controlled given that 1) the large warehouse building is completely capped with a thickened concrete foundation system, and there is a Soil and Groundwater Management Plan in place for the Site which will be implemented in the event of any onsite maintenance or redevelopment is undertaken, and 2) UPRR is aware of the contaminated soils and have Health and Safety procedures in place if any subsurface work is planned within the UPRR ROW.

The closest potential aquatic receptor is located about 450 feet to the west in Aquatic Park. However, since the plume has not shown any significant migration over the past 30 years, the risk of exposure to an aquatic receptor is considered low.

No other sensitive receptors have been identified within 1,500 feet of the Site.

2. **Control sources and mitigate risks and threats**

   a. **Pollutant sources are remediated to the extent feasible.**
   In 1984, primary and secondary sources for contamination have been removed to the extent feasible, when the voluntary remedial efforts were undertaken under the supervision of the City of Berkeley Department of Health Services to remove pesticide and PCP contaminated source area soils within the unpaved area of the former warehouse building. To date, no additional sources have been identified at the Site, and the Site has been redeveloped with a large warehouse building and thickened concrete foundation system covering the entire limits of the property.

   We note that PCP and pesticide impacted soil is present within the UPRR ROW based on studies completed by Fugro and others between 1994 and 2006. However, as stated previously, these soils are located in a public use restricted area therefore it is not feasible to complete additional soil removal activities until such time that Site redevelopment occurs.

   b. **Unacceptable risks to human health, ecological health, and sensitive receptors, considering current and future land and water uses, are mitigated.**
   The existing physical barriers and institutional controls effectively limit routine human contact with the impacted soils and groundwater. Concentrations of SVOCs including PCP and pesticides in the embankment soil have been observed to decrease since testing was first conducted by UPRR in the mid-1990s. Therefore, in their present state, residual impacted soils do not appear to be posing a significant risk to human health and the environment.

   The closest aquatic receptor would be located about 450 feet to the west. However, since the plume has not shown any significant migration over the past 30 years, the risk of exposure to an aquatic receptor is considered low.

c. **Unacceptable threats to groundwater and surface water resources, considering existing and potential beneficial uses, are mitigated**.
Concentrations detected exceed SFRWQCB screening thresholds, however, they have generally decreased over the past 30 years. In addition, shallow groundwater within the San Francisco Bay Area is not considered a useable drinking water source.

As discussed previously, it is Fugro's opinion that existing Site and subsurface conditions are effectively limiting the mobility of the groundwater plume below the Site. Additionally, the concrete floor slab and foundation system, which were constructed in 1989, are acting to limit infiltration of surface water, which in turn serves to normalize or stabilize groundwater fluctuations below the structure. These circumstances, when viewed in conjunction with the chemical data, strongly supports the finding that the plume is stable.

3. **Demonstrate that residual pollution in all media will not adversely affect present and anticipated land and water uses.**

a. **Groundwater plumes are decreasing.**
As summarized in Table 5 and illustrated on Figure 3, concentrations of chlordane in groundwater has reduced from a high of 620 µg/L observed in 1994 to no detectable concentrations in any well sampled during this most recent event. Further, although still elevated, detected concentrations of PCP has significantly reduced in select wells over the past 25 years. For example, in October 1993, PCP concentrations in well M-1 was 5,000 µg/L, and current concentrations are reported at 430 µg/L. At well M-2, PCP was reported at 9,000 µg/L and results of the most recent sampling show PCP at 3,600 µg/L.

Although detected concentrations of select COCs exceed Tier 1 ESLs, the local groundwater is brackish and is not considered a useable drinking water source. It is Fugro's opinion that existing Site and subsurface conditions are effectively limiting the mobility of the groundwater plume below the Site.

b. **Cleanup standards can be met within a reasonable timeframe.**
No cleanup standards have been established at this time. However, based on the recent groundwater monitoring results, concentrations of COCs have reduced, and in some cases decreased by orders of magnitude, within the last 30 years. Fugro expects this trend to continue.

c. **Risk management measures are appropriate, documented, and do not require further Water Board oversight.**
Based on the current land use of the Site as well as the findings of the recent groundwater monitoring, it is Fugro's opinion that residual impacts in groundwater do not pose a significant threat to human health or the environment. Furthermore, no water supply wells are impacted or threatened, and no sensitive receptors were identified within 1,500 feet of the Site

9. Next Steps

Fugro recommends that a meeting with the SFRWQCB be arranged to discuss Site conditions including the results of this most recent groundwater sampling event and discuss a path toward regulatory case closure.

10. Limitations

Fugro has prepared this report in a professional manner, using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Fugro shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the report was prepared. Fugro also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. Fugro believes that conclusions stated herein to be factual, but no guarantee is made or implied. This report has been prepared for the benefit of Herst Ventures Inc. The information contained in this report, including all exhibits and attachments, may not be used by any party other than Herst Ventures Inc. without the express written consent of Fugro.

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Table 1: Well Construction Details

Identification Number	Well/Piezometer Installer	Installation Date	Latitude ♯	Longitude ♯	TOC Elevation ♯ (Feet NAVD88)	BH Diameter (Inches)	BH TD (Feet BGS)	Casing Diameter (Inches)	Screen Interval (Feet BGS)	Initial GW Encounter (Feet BTOC)	Date Static Measured	Static GW Encounter (Feet BTOC)	GW Elevation (NAVD88)	Status
Monitoring Well														
W-1 *	Brown and Caldwell	6/19/1985	Unknown	Unknown	Unknown	8	34	2	11.5-31.5	10.22 **	Unknown	Unknown	Unknown	Presumed Destroyed
W-2 *	Brown and Caldwell	6/20/1985	Unknown	Unknown	Unknown	8	26.5	2	10.2-25	10.80 **	Unknown	Unknown	Unknown	Presumed Destroyed
W-3 *	Brown and Caldwell	6/21/1985	Unknown	Unknown	Unknown	8	26.5	2	7.0-25	11.83 **	Unknown	Unknown	Unknown	Presumed Destroyed
W-4 *	Brown and Caldwell	6/24/1985	Unknown	Unknown	Unknown	8	56.5	2	10-24.5	12.38 **	Unknown	Unknown	Unknown	Presumed Destroyed
M-1	Mark Group	4/26/1988	37.8639720	-122.2996286	25.23	8	30	2	18-28	15.99	6/1/1988	12.74	12.49	Active, 0.5 ft of sediment at bottom
M-2	Mark Group	4/27/1988	37.8637982	-122.2995737	25.19	8	30	2	18-28	15.83	6/1/1988	13.29	11.90	Active
M-3 *	Mark Group	4/27/1988	Unknown - Cannot locate		24.07	8	30	2	18-28	14.59	6/1/1988	12.73	11.34	Unknown - Cannot locate
M-4	Mark Group	4/26/1988	37.8640332	-122.2993289	25.19	8	30	2	18-28	15.85	6/1/1988	12.36	12.83	Active
M-5	Mark Group	4/25/1988	37.8640548	-122.2988262	24.80	8	31	2	20.5-30.5	19.75	6/1/1988	10.15	14.65	Active
M-6	Mark Group	4/28/1988	37.8631147	-122.2985198	25.67	8	31.5	2	20.5-30.5	11.17	6/1/1988	10.61	15.06	Active
Temporary Well / Piezometer														
S-7	Subsurface Consultants	10/27/1994	37.8638062	-122.2996203	25.17	3.25	17	1	7.0-17	Not Encountered	10/31/1994	12.95	12.22	Active, sediment present at bottom of well
S-8	Subsurface Consultants	10/27/1994	37.8638731	-122.2996509	25.19	3.25	17	1	7.0-17	Not Encountered	10/31/1994	12.87	12.32	Active, sediment present at bottom of well
S-9	Subsurface Consultants	10/27/1994	37.8639389	-122.2996712	25.22	3.25	17	1	7.0-17	Not Encountered	10/31/1994	16.34	8.88	Active, sediment present at bottom of well
S-10	Subsurface Consultants	10/27/1994	37.8639674	-122.2995298	24.05	3.25	17	1	7.0-17	Not Encountered	10/31/1994	13.93	10.12	Active; 3 feet of sediment at bottom of well

Notes:

TOC = Top of casing

AMSL = Above mean sea level (NAVD 88)

BH = Borehole

TD = Total depth

BGS = Below ground surface

BTOC = Below top of casing

GW = Groundwater

♯ Wells Surveyed on Novebmer 11, 2020

* = Well not surveyed, well inaccessible or presumed destroyed

** = Depth to water measurement shown is feet below top of slab or feet below existing grade

Table 2: Summary of Depth to Water Measurements

Identification Number	Date	TOC ♯ (Feet NAVD88)	Depth to Water (Feet below TOC)	Groundwater Elevation ♯ (Feet NAVD88)	Notes
Monitoring Well					
W-1 *	6/19/1985	Unknown	10.22		
	7/24/1985		10.44		
	1/22/1986		8.82		
	1/29/1986		8.86		
	3/21/1986		7.54		Significant rain event
W-2 *	6/21/1985	Unknown	10.80		
	7/24/1985		11.41		
	1/22/1985		8.32		
	1/29/1985		8.26		
	3/21/1986		5.14		Significant rain event
W-3 *	6/24/1985	Unknown	11.83		
	7/24/1985		11.99		
	1/22/1985		10.02		
	1/29/1986		10.18		
	3/21/1986		8.40		Significant rain event
W-4 *	6/25/1985	Unknown	12.38		
	7/24/1985		11.73		
	1/22/1986		9.78		
	1/29/1986		10.02		
	3/21/1986		7.16		Significant rain event
M-1	4/26/1988		13.50		Not stabilized
	5/17/1988		NM		
	5/18/1988		NM		
	5/19/1988		NM		
	6/1/1988		12.74		
	8/11/1993		12.01		
	10/6/1993		12.41		
	10/31/1994		12.43		
	11/1/1994		12.43		
	8/29/2006		12.15		
	10/14/2020	25.23	12.41	12.82	
M-2	4/25/1988		11.50		Not stabilized
	5/17/1988		12.74		
	5/18/1988		13.32		
	5/19/1988		13.07		
	6/1/1988		13.29		
	8/11/1993		11.90		
	10/6/1993		12.30		
	10/31/1994		12.37		
	11/1/1994		12.37		
	8/29/2006		11.91		
	10/14/2020	25.19	12.46	12.73	
M-3 *	4/27/1988	Unknown	12.00		Not stabilized
	5/17/1988		11.79		
	5/18/1988		12.16		
	5/19/1988		12.17		
	6/1/1988		12.73		
	8/11/1993		11.01		
	10/6/1993		11.45		
	10/31/1994		11.47		
	11/1/1994		11.47		

Table 2: Summary of Depth to Water Measurements

Identification Number	Date	TOC ♯ (Feet NAVD88)	Depth to Water (Feet below TOC)	Groundwater Elevation ♯ (Feet NAVD88)	Notes
Monitoring Well					
M-4	4/26/1988		10.50		
	5/17/1988		11.82		
	5/18/1988		11.99		
	5/19/1988		11.96		
	6/1/1988		12.36		
	8/11/1993		11.44		
	10/6/1993		11.78		
	10/31/1994		11.82		
	11/1/1994		11.82		
	8/29/2006		NM		
	10/14/2020	25.19	12.08	13.11	
M-5	4/25/1988		19.50		Not stabilized
	5/17/1988		NM		
	5/18/1998		9.43		
	5/19/1988		9.87		
	6/1/1988		10.15		
	8/11/1993		9.57		
	10/6/1993		9.93		
	10/31/1994		9.93		
	11/1/1994		9.93		
	8/29/2006		NM		
	10/14/2020	24.80	10.09	14.71	
M-6	4/25/1988		11.50		Not stabilized
	5/17/1988		NM		
	5/18/1998		10.32		
	5/19/1988		10.34		
	6/1/1988		10.61		
	8/11/1993		9.62		
	10/6/1993		10.04		
	10/31/1994		9.91		
	8/29/2006		NM		
	10/14/2020	25.67	9.52	16.15	
Temporary Well / Piezometer					
S-7	10/31/1994		12.91 **		Not stabilized
	8/2/2005		11.50 **		
	8/31/2006		11.00 **		
	10/14/2020	25.17	12.04	13.13	
S-8	10/31/1994		12.87 **		Not stabilized
	8/2/2005		12.08 **		
	8/29/2006		11.95 **		
	10/14/2020	25.19	12.82	12.37	
S-9	10/31/1994		16.34 **		Not stabilized
	8/2/2005		11.92 **		
	10/14/2020	25.22	12.80	12.42	
S-10	10/31/1994		13.93 **		Not stabilized
	8/2/2005		11.50 **		
	8/31/2006		11.50 **		
	10/14/2020	24.05	10.96	13.09	
Grab Groundwater Samples					
BC-1	6/13/1983	--	8.50 **	--	
BC-3	6/14/1983	--	9.00 **	--	
B1	3/12/1986	--	5.00 **	--	Significant rain event
B2	3/12/1986	--	0.50 **	--	Significant rain event
B3	3/12/1986	--	6.00 **	--	Significant rain event
B4	6/14/1983	--	9.00 **	--	

Notes:

TOC = Top of casing ♯ = Well surveyed on November 11, 2020

AMSL = Above mean sea level (NAVD 88) NM = Not Measured

BTOC = Below top of casing

♯ = Well locations were not surveyed until 2020, TOC elevations and groundwater elevations shown prior to 2020 are estimated

* = Well not surveyed in 2020, well inaccessible or presumed destroyed

** = Depth to water measurement shown is feet below top of slab or feet below existing grade

-- = Not Applicable

Table 3: Summary of Analytical Results - 2020 Groundwater Sampling Event

Analyte	Units	Sample ID								Regulatory Criteria	
		M-1	M-2	M-4	M-5	S-7	S-8	S-9	S-10	Tier 1 ESL	Commercial ESL
Sample Date		10/14/2020	10/14/2020	10/14/2020	10/14/2020	10/15 & 10/19/2020	10/15 & 10/19/2020	10/15 & 10/19/2020	10/15 & 10/19/2020		
Hydrocarbons											
TPHg	µg/L	<50	**130**	<50	<50	**3,100**	<50	<50	**4,700**	100	NE
TPHd	µg/L	**200**	**1,700**	<50	<50	**1,100**	**260**	**120**	**27,000**	100	NE
TPHmo	µg/L	<250	**530**	<250	<250	**530**	<250	<250	<500	100	NE
Volatile Organic Compounds											
Tetrachloroethene	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	0.64	2.8
Trichloroethene	µg/L	**56**	<0.50	**16**	**9.3**	<120	<0.50	<0.50	<0.50	1.2	7.5
cis-1,2-Dichloroethene	µg/L	**12**	<0.50	<1.0	**10**	<120	<0.50	<0.50	<0.50	6.0	210
trans-1,2-Dichloroethene	µg/L	<1.7	<0.50	<1.0	**2.1**	<120	<0.50	<0.50	<0.50	10	920
Vinyl chloride	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	0.0086	400
MTBE	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	5.0	2,000
Benzene	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	0.42	1.8
Ethylbenzene	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	40	4,900
Toluene	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	<0.50	3.5	15
Total Xylenes	µg/L	<1.7	**16**	<1.0	<0.50	<120	<0.50	<0.50	**1.5**	20	1,600
1,1-Dichloroethane	µg/L	**8.1**	<0.50	**42**	<0.50	<120	<0.50	<0.50	<0.50	5.0	33
1,2-Dichloroethane	µg/L	<1.7	<0.50	**1.8**	<0.50	<120	<0.50	<0.50	<0.50	0.5	9.8
1,1-Dichloroethene	µg/L	**4.3**	<0.50	**24**	<0.50	<120	<0.50	<0.50	<0.50	3.2	280
MIBK	µg/L	<1.7	<0.50	<1.0	<0.50	**7,900**	<0.50	<0.50	<0.50	120	2,300,000
1,2,4-Trimethylbenzene	µg/L	<1.7	<0.50	<1.0	<0.50	<120	<0.50	<0.50	**0.72**	NE	NE
All other VOCs	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	Varies	Varies
Semi-Volatile Organic Compounds											
Anthracene	µg/L	<0.26	<20	<0.010	<0.010	<29 B1	<5.9	**0.076**	<26 B1	0.73	NE
Benzo(a)pyrene	µg/L	<0.26	<10	<0.0051	<0.0052	<15 B1	<2.9	**0.025**	<12 B1	0.014	NE
Bis (2-ethylhexyl) Phtalate	µg/L	<10	<410	<0.21	<0.21	<580 B1	<120	<0.57	<510 B1	4.0	NE
Butylbenzyl Phthalate	µg/L	<2.6	<100	**0.059**	<0.052	<150 B1	<29	<0.14	<130 B1	NE	NE
Di-n-butyl phthalate	µg/L	<2.6	<100	**0.14**	<0.052	<150 B1	<29	**0.22**	<130 B1	NE	NE
2,4-Dichlorophenol	µg/L	<0.51	<20	<0.010	<0.010	<29 B1	<5.9	**0.054**	<26 B1	0.30	NE
Diethyl Phthalate	µg/L	<2.6	<100	**0.055**	<0.052	<150 B1	<29	<0.14	<130 B1	1.5	NE
Fluoranthene	µg/L	<0.51	<20	<0.010	<0.010	<29 B1	<5.9	<0.029	<26 B1	8.0	NE
Naphthalene	µg/L	<2.6	<100	<0.051	<0.052	<150 B1	<29	<0.14	<130 B1	0.17	20
Pentachlorophenol	µg/L	**430**	**3,600**	**0.37**	<0.26	**26,000 B1**	**3,800**	**12**	**2,900 B1**	1.0	NE
2,4,5-Trichlorophenol	µg/L	<0.51	<20	<0.010	<0.010	<29 B1	<5.9	**0.058**	<26 B1	11	NE
1-Methylnaphthalene	µg/L	<0.26	<10	<0.0051	<0.0052	<15 B1	<2.9	**0.032**	**31 B1**	NE	NE
All other SVOCs	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	Varies	Varies
Organochlorine Pesticides											
Aldrin	µg/L	<0.0050	**0.12**	<0.0050	<0.0050	<0.50	<0.50	<0.50	<0.50	0.00014	97,000,000
d-BHC	µg/L	<0.0050	**0.17**	<0.0050	<0.0050	<0.50	<0.50	<0.50	<0.50	NE	NE
Chlordane	µg/L	<0.10	<0.10	<0.10	<0.10	<10	<10	<10	<10	0.00059	18
Dieldrin	µg/L	**0.056** [1]	**0.054**	<0.010	<0.010	<1.0	<1.0	**1.6**	<1.0	0.00014	6.5
Heptachlor Epoxide	µg/L	<0.010	<0.010	<0.010	<0.010	<1.0	<1.0	<1.0	<1.0	0.00011	5.5
All other Pesticides	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	Varies	Varies

Notes:

TPHg= Total Petroleum Hydrocarbons as gasoline

TPHd= Total Petroleum Hydrocarbons as diesel

TPHmo= Total Petroleum Hydrocarbons as motor oil

µg/L = Micrograms per liter

Detected Concentrations shown in **Bold**

<0.5 or ND = Not detected above laboratory detection limit

[1] = Agreement between quantitative confirmation result exceed method recommended limits

NE = Not Established

B1 = Aqueous sample that contains greater than 1 vol. % sediment (Results may be biased high)

ESLs = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final July 2019 (Rev. 2), Table Tier 1 ESL and Table GW-3 (Groundwater Vapor Intrusion Human Health Risk Level - Commercial/Industrial Land Use)

Table 4: Historical Chemical Concentrations in Soil

		Petroleum Hydrocarbons				VOCs			SVOCs		Organochlorine Pesticides		
Boring	**Depth (feet)**	**TPHg (mg/kg)**	**TPHd (mg/kg)**	**TPHk/jf (mg/kg)**	**TPHo (mg/kg)**	**Benzene (µg/kg)**	**Ethylbenzene (µg/kg)**	**MTBE (µg/kg)**	**Pentachlorophenol (µg/kg)**	**Naphthalene (µg/kg)**	**Chlordane[1] (µg/kg)**	**Dieldrin (µg/kg)**	**Heptachlor Epoxide B (µg/kg)**
Tier 1 ESL		**100**	**260**	**100**	**1,600**	**25**	**430**	**28**	**13**	**42**	**8.5**	**0.46**	**0.018**
Commercial Land Use ESL		**2,000**	**1,200**	**1,400**	**180,000**	**1,400**	**26,000**	**210,000**	**4,000**	**17,000**	**2,200**	**160**	**280**
B&C Investigation 1983 (2220 Fourth Street) Located within Area of Excavation													
B-1	2	--	--	--	--	--	--	--	--	--	**980**	<20	<20
	6	--	--	--	--	--	--	--	--	--	**1,500**	<20	<20
	10	--	--	--	--	--	--	--	--	--	<20	<50	<20
B-2	2	--	--	--	--	--	--	--	--	--	<130	<20	<20
	5	--	--	--	--	--	--	--	--	--	<130	<20	<20
B-3	2	--	--	--	--	--	--	--	--	--	**390**	<20	<20
	5	--	--	--	--	--	--	--	--	--	**12,000**	**470**	<20
	7.5	--	--	--	--	--	--	--	--	--	**33,000**	**1,100**	<20
	10	--	--	--	--	--	--	--	--	--	**3,800**	**190**	<20
B-4	2	--	--	--	--	--	--	--	--	--	<130	<20	<20
	4.5	--	--	--	--	--	--	--	--	--	<130	<20	<20
B&C Investigation 1986 (2220 Fourth Street)													
B1	0	--	--	--	--	--	--	--	<2,000	--	--	--	--
	2.5	--	--	--	--	--	--	--	<2,000	--	--	--	--
	4.5	--	--	--	--	--	--	--	<2,000	--	--	--	--
B2	0	--	--	--	--	--	--	--	<2,000	--	--	--	--
	2.5	--	--	--	--	--	--	--	<2,000	--	--	--	--
	5	--	**350**	--	--	--	--	--	<2,000	--	--	--	--
B3	0	--	--	--	--	--	--	--	<2,000	--	--	--	--
	2.5	--	--	--	--	--	--	--	<2,000	--	--	--	--
	5	--	--	--	--	--	--	--	<2,000	--	--	--	--
	6	--	--	--	--	--	--	--	<2,000	--	--	--	--
Tank Excavators Suspected UST Excavation 1987 (2220 Fourth Street)													
A	Unknown	**10**	--	--	--	--	--	--	--	--	--	--	--
B	Unknown	<10	--	--	--	--	--	--	--	--	--	--	--
Backfill	Stockpile	**1,800**	--	--	--	--	--	--	--	--	--	--	--
Backfill *	Stockpile	**14**	--	--	--	--	--	--	--	--	--	--	--
Polymatrix Investigation 1987 (2220 Fourth Street)													
Composite #3	0	--	--	--	--	--	--	--	**460,000**	<6,600	--	--	--
Composite #4	3.5	--	--	--	--	--	--	--	**21,000**	<330	--	--	--
Mark Group Investigation 1988 (2220 Fourth Street)													
M-1	7.5	--	--	--	--	--	--	--	<1,600	<330	--	--	--
	10	--	--	--	--	--	--	--	<1,600	<330	--	--	--
M-2	5	--	--	--	--	--	--	--	<1,600	<330	--	--	--
	10	--	--	--	--	--	--	--	**2,200**	<330	--	--	--
M-4	5	--	--	--	--	--	--	--	<1,600	<330	--	--	--
	10	--	--	--	--	--	--	--	<1,600	<330	--	--	--

Table 4: Historical Chemical Concentrations in Soil

		Petroleum Hydrocarbons				VOCs			SVOCs		Organochlorine Pesticides		
Boring	**Depth (feet)**	**TPHg (mg/kg)**	**TPHd (mg/kg)**	**TPHk/jf (mg/kg)**	**TPHo (mg/kg)**	**Benzene (µg/kg)**	**Ethylbenzene (µg/kg)**	**MTBE (µg/kg)**	**Pentachlorophenol (µg/kg)**	**Naphthalene (µg/kg)**	**Chlordane[1] (µg/kg)**	**Dieldrin (µg/kg)**	**Heptachlor Epoxide B (µg/kg)**
	Tier 1 ESL	**100**	**260**	**100**	**1,600**	**25**	**430**	**28**	**13**	**42**	**8.5**	**0.46**	**0.018**
	Commercial Land Use ESL	**2,000**	**1,200**	**1,400**	**180,000**	**1,400**	**26,000**	**210,000**	**4,000**	**17,000**	**2,200**	**160**	**280**
SCI Investigation 1994 (2220 Fourth Street)													
S-7	2	--	NR	**160**	--	<5	<5	--	**14,000**	--	**6,200[2]**	**450**	<100
	6	--	NR	**4,200**	--	**70**	**710**	**--**	**130,000**	--	**12,000[2]**	**1,300**	<300
S-8	2	--	NR	**61**	--	<5	<5	--	**5,300**	--	**5,500[2]**	**350**	<100
	8	--	<1	<1	--	**8**	<5	--	<2,000	--	**36[2]**	<6	<3
S-9	2	--	NR	**660**	--	**9**	**11**	**--**	**4,400**	--	**5,400[2]**	**450**	<300
	6	--	**1.0**	**1.0**	--	**4**	<5	--	**1,300**	--	**250[2]**	**44**	<4
S-10	2	--	NR	**6,100**	--	**13**	<5	--	<20,000	--	**28,000[2]**	**2,800**	<500
	8	--	NR	**290**	--	**6**	<5	--	**9,400**	--	**1,400[2]**	**91**	<30
Levine-Fricke 1994 Investigation (UP Property)													
SB-1	0.5	<0.2	**24**	<1.0	**180**	<5	<5	--	**5,100**	<330	--	--	--
	3	<0.2	**10**	<1.0	**57**	<5	<5	--	<1,600	<330	--	--	--
	7	<0.2	**10**	<1.0	**40**	<5	<5	--	<1,600	<330	--	--	--
SB-2	0.5	<0.2	**4.0**	<1.0	**7.0**	<5	<5	--	<1,600	<330	--	--	--
	5	<0.2	**3.0**	**2.0**	**7.0**	<5	<5	--	**3,800**	<330	--	--	--
	6.5	<7	**1.0**	**22**	<5.0	<5	<5	--	**2,800**	<330	--	--	--
SB-3	3	<60	<2,000	**1,400**	**78**	<50	<50	--	**18,000**	<830	--	--	--
	5	<2,000	<6,000	**6,000**	**90**	<50	**11,000**	**--**	**110,000**	<3,300	--	--	--
	7	<300	<600	**580**	**10**	<50	**2,300**	**--**	**28,000**	<830	--	--	--
Industrial Compliance 1995 Investigation (UP Property)													
B-1	0.0	--	<5.0	--	--	<25	<25	--	<330	--	<210	<41	<21
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<4	<2
	4.5	--	<5.0	--	--	<25	<25	--	<330	--	**15**	**2.6**	<2.1
B-2	0.0	--	**30**	--	--	<25	**26**	--	<330	--	<180	<35	<18
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<200	<39	<20
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<210	<41	<21
	10.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
	10.5	--	**39**	--	--	<25	<25	--	<330	--	<200	<38	<20
B-3	0.0	--	**67**	--	--	<25	<25	--	**7,200**	--	**19,000**	**1,600**	<20
	0.0	--	**42**	--	--	<25	<25	--	**4,400**	--	**18,000**	**1,400**	<20
	2.0	--	**10,000**	--	--	<25	**790**	--	**190,000**	--	**3,800**	**140**	<220
	5.0	--	**5,000**	--	--	<50	**1,500**	--	**20,000**	--	**2,100**	**210**	<22
B-4	0.0	--	**48**	--	--	<25	<25	--	<3,300	--	**22,000**	**1,600**	<210
	2.0	--	**37**	--	--	<25	<25	--	<3,300	--	**570,000**	**160,000**	<200
	3.0	--	**17**	--	--	<25	<25	--	<330	--	**130,000**	**28,000**	<420

Table 4: Historical Chemical Concentrations in Soil

		Petroleum Hydrocarbons				VOCs			SVOCs		Organochlorine Pesticides		
Boring	**Depth (feet)**	**TPHg (mg/kg)**	**TPHd (mg/kg)**	**TPHk/jf (mg/kg)**	**TPHo (mg/kg)**	**Benzene (µg/kg)**	**Ethylbenzene (µg/kg)**	**MTBE (µg/kg)**	**Pentachlorophenol (µg/kg)**	**Naphthalene (µg/kg)**	**Chlordane[1] (µg/kg)**	**Dieldrin (µg/kg)**	**Heptachlor Epoxide B (µg/kg)**
	Tier 1 ESL	**100**	**260**	**100**	**1,600**	**25**	**430**	**28**	**13**	**42**	**8.5**	**0.46**	**0.018**
	Commercial Land Use ESL	**2,000**	**1,200**	**1,400**	**180,000**	**1,400**	**26,000**	**210,000**	**4,000**	**17,000**	**2,200**	**160**	**280**
Industrial Compliance 1995 Investigation (UP Property) continued													
B-5	0.0	--	**75**	--	--	<25	<25	--	<3,300	--	**92,000**	**4,000**	<410
	2.0	--	**6.7**	--	--	<25	<25	--	**1,800**	--	**310,000**	**15,000**	<200
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	**4,000**	**160**	<2.1
	5.5	--	<5.0	--	--	<25	<25	--	<330	--	**5,700**	**210**	<210
	7.5	--	<5.0	--	--	<25	<25	--	<330	--	**1,200**	**29**	<2.1
B-6	0.0	--	**5.9**	--	--	<25	<25	--	<3,300	--	<2,200	<420	<220
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<200	<40	<20
	9.0	--	--	**65**	--	<25	**490**	--	<330	--	<21	<4	<2.1
	10.0	--	<5.0	--	--	<25	<25	--	<330	--	<17	<3.4	<1.7
B-7	0.0	--	<5.0	--	--	<25	<25	--	<3,300	--	<2,100	<410	<210
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
	10.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<4.0	<2
B-8	0.0	--	**96**	--	--	<25	<25	--	<3,300	--	<1,900	<380	<190
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<210	<41	<21
B-9	0.0	--	**20**	--	--	<25	<25	--	<3,300	--	<2,000	<390	<200
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<200	<40	<20
	3.0	--	<5.0	--	--	<25	<25	--	<330	--	<21	<4	<2.1
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
B-10	0.0	--	**41**	--	--	<25	<25	--	<3,300	--	<2,000	<380	<200
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<200	<39	<20
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<4	<2
B-11	0.0	--	**19**	--	--	<25	<25	--	<330	--	<2,000	<390	<200
	2.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
B-12	0.0	--	**66**	--	--	<25	<25	--	<330	--	<1,900	<370	<190
	2.0	--	**5.8**	--	--	<25	<25	--	<330	--	<21	<4	<2.1
	5.0	--	<5.0	--	--	<25	<25	--	<330	--	<19	<3.8	<1.9
	6.0	--	<5.0	--	--	<25	<25	--	<330	--	<20	<3.9	<2
	8.0	--	<5.0	--	--	<25	<25	--	<330	--	<21	<4.1	<2.1
B-13	0.0	--	**200**	--	--	<25	<25	--	<3,300	--	<3,100	<600	<310
	2.0	--	**200**	--	--	<25	<25	--	<3,300	--	<2,400	<460	<240

Table 4: Historical Chemical Concentrations in Soil

		Petroleum Hydrocarbons				VOCs			SVOCs		Organochlorine Pesticides		
Boring	**Depth (feet)**	**TPHg (mg/kg)**	**TPHd (mg/kg)**	**TPHk/jf (mg/kg)**	**TPHo (mg/kg)**	**Benzene (µg/kg)**	**Ethylbenzene (µg/kg)**	**MTBE (µg/kg)**	**Pentachlorophenol (µg/kg)**	**Naphthalene (µg/kg)**	**Chlordane[1] (µg/kg)**	**Dieldrin (µg/kg)**	**Heptachlor Epoxide B (µg/kg)**
Tier 1 ESL		**100**	**260**	**100**	**1,600**	**25**	**430**	**28**	**13**	**42**	**8.5**	**0.46**	**0.018**
Commercial Land Use ESL		**2,000**	**1,200**	**1,400**	**180,000**	**1,400**	**26,000**	**210,000**	**4,000**	**17,000**	**2,200**	**160**	**280**
Fugro West, Inc 2006 (UP Property)													
HA-1	0.5	--	**98**$_{HY}$	--	--	--	--	--	<6,800	--	<34	--	--
	2.0	--	**6.3**$_{HY}$	--	--	--	--	--	<660	--	<16.8	--	--
	5.0	--	<0.99	--	--	--	--	--	<660	--	<3.4	--	--
	14.5	--	**2.0**$_{HY}$	--	--	--	--	--	<680	--	<3.4	--	--
HA-2	0.5	--	**61**$_{HY}$	--	--	--	--	--	<6,700	--	<34	--	--
	2.0	--	**21**$_{HY}$	--	--	--	--	--	<670	--	<17.2	--	--
	5.0	--	<1.0	--	--	--	--	--	<670	--	<3.4	--	--
HA-3	0.5	--	**46**$_{HY}$	--	--	--	--	--	<3,400	--	<34	--	--
	2.0	--	**3.3**$_{HY}$	--	--	--	--	--	<1,300	--	<16.8	--	--
	5.0	--	**4.0**$_{HY}$	--	--	--	--	--	<660	--	<17	--	--
HA-4	0.5	--	**30**$_{HY}$	--	--	--	--	--	<2,000	--	**500**$_{C}$	--	--
	2.0	--	<1.0	--	--	--	--	--	<670	--	<3.4	--	--
	5.0	--	<1.0	--	--	--	--	--	<670	--	<3.4	--	--
HA-5	0.5	--	**140**$_{HY}$	--	--	--	--	--	<6,700	--	**4,300**$_{C}$	--	--
	2.0	--	<1.0	--	--	--	--	--	<660	--	**46**$_{C}$	--	--
	5.0	--	**6.7**$_{HY}$	--	--	--	--	--	<680	--	**131**$_{C}$	--	--
	5.5	--	**170**$_{HY}$	--	--	--	--	--	<670	--	**7.1**$_{C}$	--	--
	6.5	--	**63**$_{LY}$	--	--	--	--	--	<670	--	**9.8**$_{C}$	--	--
	7.0	--	**13**$_{LY}$	--	--	--	--	--	<670	--	<3.4	--	--
HA-6	0.5	--	**1.6**$_{HY}$	--	--	--	--	--	<2,700	--	**520**$_{C}$	--	--
	2.0	--	**27**$_{HY}$	--	--	--	--	--	<670	--	**2.4**	--	--
HA-7	0.5	--	**84**$_{H}$	--	--	--	--	--	<2,700	--	**3,500**	--	--
	2.0	--	**65**$_{HY}$	--	--	--	--	--	<6,800	--	**2,200**	--	--
HA-8	0.5	--	**29**$_{HY}$	--	--	--	--	--	<3,300	--	**1,260**	--	--
	1.5	--	**38**$_{HY}$	--	--	--	--	--	<3,300	--	**1,330**$_{C}$	--	--

Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHk/jf = Total petroleum hydrocarbons as kerosene / jet fuel

TPHo = Total petroleum hydrocarbons as oil

[1] = sum of alpha-chlordane and gamma-chlordane isomers

[2] = Total Chlordane

[3] = Breakdown product of Heptachlor; Heptachlor is a component in chlordane and a breakdown product of chlordane

NR = Not reported due to overlap of hydrocarbon rnages

Detected concentrations in **bold**

< or ND = Not detected at or above the listed analytical reporting limit

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

* Results reported in DTSC's 2003 Preliminary Endangerment Assessment

C = presence confirmed, but RPD between columns exceeds 40%

H = Heavier hydrocarbons contributed to the quantitation

L = Lighter hydrocarbons contributed to the quantitation

Y = Sample exhibits chromatographic pattern, which does not resemble standard

-- = Not Analyzed

NE = Not Established

ESLs = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final July 2019 (Rev. 2), Table Tier 1 ESL and Table S-1 (Direct Exposure Human Health Risk Level - Commercial/Industrial Land Use)

Table 5: Historical Chemical Concentrations in Groundwater

Well	Date	Petroleum Hydrocarbons		VOCs															SVOCs		Organochlorine Pesticides		
		TPHg	TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	1,1,1-TCA	1,1-DCA	TCE	Cis 1,2-DCE	Trans 1,2-DCE	Vinyl Chloride	MIBK	1,2-DCA	1,1-DCE		PCP	Naphthalene	Chlordane[1]	Dieldrin	Heptachlor Epoxide B[2]
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		µg/L	µg/L	µg/L	µg/L	µg/L
	Tier 1 ESL	100	100	0.42	40	3.5	20	5.0	62	5.0	1.2	6.0	10	0.0086	120	0.5	3.2		1.0	0.17	0.00059	0.00014	0.00011
	Commercial ESL	NE	NE	1.8	4,900	15	1,600	2,000	6,300	33	7.5	210	920	400	2,300,000	9.8	280		NE	20	18	6.5	5.5
Well Samples																							
W-1	Jun-25-85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	<0.3	<0.05	<0.05
	Aug-85	--	--	--	--	--	--	--	<0.5	<0.5	34	--	3.1	<0.5	--	<0.5	<0.5		<10	--	--	--	--
	Feb-86	--	--	--	--	--	--	--	<0.5	<0.5	18	--	7.3	<0.5	--	24	<0.5		<10	--	--	--	--
	May-87	--	--	--	--	--	--	--	30,000	<100	<100	--	<100	<100	--	<100	2,000		<1	--	--	--	--
	Jul-87	--	--	--	--	--	--	--	17,000	<100	<100	--	<100	<100	--	<100	2,000		--	--	--	--	--
W-2	Jun-25-85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--
	Aug-85	--	--	--	--	--	--	--	<0.5	<0.5	28	--	<0.5	<0.5	--	<0.5	<0.5		26,000	--	--	--	--
	Feb-86	--	--	--	--	--	--	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5		3,400	--	--	--	--
	May-87	--	--	--	--	--	--	--	91	<10	1,200	--	12	<10	--	<10	<10		1,500	--	--	--	--
	Jul-87	--	--	--	--	--	--	--	<0.5	<0.5	12	--	<0.5	<0.5	--	<0.5	<0.5		--	--	--	--	--
W-3	Jun-25-85	--	5,000	<1	<1	<1	<1	--	<1	<1	1,400	<1	11	<1	--	<1	<1		1,500	--	<0.3	<0.05	<0.05
	Aug-85	--	--	--	--	--	--	--	<25	<25	420	--	<25	1,400	--	<25	<25		200	--	--	--	--
	Feb-86	--	--	--	--	--	--	--	<2	<2	280	--	<2	<2	--	<2	<2		11,000	--	--	--	--
	May-87	--	--	--	--	--	--	--	65	<2.5	260	--	<2.5	<2.5	--	<2.5	5.5		8,000	--	--	--	--
	Jul-87	--	--	--	--	--	--	--	65	<2.5	340	--	3.4	<2.5	--	<2.5	<2.5		--	--	--	--	--
W-4	Jun-25-85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	<0.3	<0.05	<0.05
	Aug-85	--	--	--	--	--	--	--	<25	<25	950	--	<25	<25	--	<25	<25		120	--	--	--	--
	Feb-86	--	--	--	--	--	--	--	<5	<5	440	--	<5	<5	--	<5	<5		860	--	--	--	--
	May-87	--	--	--	--	--	--	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5		1,700	--	--	--	--
	Jul-87	--	--	--	--	--	--	--	<10	<10	1,300	--	25	<10	--	<10	<10		--	--	--	--	--
M-1	May-19-88	--	--	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	184	<2.5	<2.5	<2.5	<2.5	3.3	<2.5		216	<2.0	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5,000	--	--	--	--
	Oct-1-93	320	2,300	<5	<5	<5	<5	--	30	<5	300	50	<5	<10	200	<5	40		--	--	--	--	--
	Nov-1-94	--	440	<5	<5	<5	<5	--	44	<5	310	54	<5	<10	<20	698	45		800	--	<5	<1	<0.5
	Aug-30-06	--	1,200 YZ	--	--	--	--	--	--	--	--	--	--	--	--	--	--		3,100	--	<4.8	--	--
	Oct-14-20	<50	200	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	8.1	56	12	<1.7	<1.7	<1.7	<1.7	4.3		430	<2.6	<0.10	0.056[3]	<0.010
M-2	May-19-88	--	--	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		1,740	<2.0	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		1,900	--	--	--	--
	Oct-1-93	240	70,000	<5	<5	<5	<5	--	10	<5	<5	<5	<5	<10	<10	<5	<5		--	--	--	--	--
	Nov-1-94	--	52,000	<5	<5	<5	32	--	6.0	<5	<5	<5	<5	<10	<10	<5	<5		9,000	--	<50	<10	<5
	Aug-30-06	--	2,000 YZ	--	--	--	--	--	--	--	--	--	--	--	--	--	--		4,300	--	<5.0	--	--
	Oct-14-20	130	1,700	<0.50	<0.50	<0.50	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		3,600	<100	<0.010	0.054	<0.010
M-3	May-19-88	--	--	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<3	<2.0	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		<30	--	--	--	--
	Oct-1-93	<50	<50	<5	<5	<5	<5	--	<5	<5	4.0	<5	<5	<10	<10	<5	<5		--	--	--	--	--
	Nov-1-94	--	<50	<5	<5	<5	<5	--	<5	<5	4.0	<5	<5	<10	<10	<5	<5		<50	--	<0.5	<0.1	<0.05
M-4	May-19-88	--	--	<0.5	<0.5	<0.5	<0.5	--	115	0.8	82	<0.5	0.6	<0.5	<0.5	5.2	68		<3	<2.0	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		<30	--	--	--	--
	Oct-1-93	120	120	11	<5	<5	<5	--	110	12	130	<5	<5	<10	<10	10	160		--	--	--	--	--
	Nov-1-94	--	<50	4.6	<5	<5	<5	--	110	18	100	<5	<5	<10	8.0	10	170		<50	--	<0.5	<0.1	<0.05
	Oct-14-20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	16	<1.0	<1.0	<1.0	<1.0	1.8	24		0.37	<0.051	<0.10	<0.010	<0.010
M-5	May-19-88	--	--	<0.5	<0.5	<0.5	<0.5	--	1.2	<0.5	102	<0.5	10	19	<0.5	<0.5	1.6		<3	<2.0	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		<30	--	--	--	--
	Oct-1-93	120	<50	<5	<5	<5	<5	--	16	<5	170	38	4.0	<10	<10	<5	<5		--	--	--	--	--
	Nov-1-94	--	<50	<5	<5	<5	<5	--	<5	<5	130	31	3.0	<10	<10	<5	<5		<50	--	<0.5	<0.1	<0.05
	Oct-14-20	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.3	10	2.1	<0.50	<0.50	<0.50	<0.50		<0.26	<0.052	<0.10	<0.010	<0.010

Table 5: Historical Chemical Concentrations in Groundwater

Well	Date	Petroleum Hydrocarbons		VOCs														SVOCs		Organochlorine Pesticides		
		TPHg	TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	1,1,1-TCA	1,1-DCA	TCE	Cis 1,2-DCE	Trans 1,2-DCE	Vinyl Chloride	MIBK	1,2-DCA	1,1-DCE	PCP	Naphthalene	Chlordane[1]	Dieldrin	Heptachlor Epoxide B[2]
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	Tier 1 ESL	**100**	**100**	**0.42**	**40**	**3.5**	**20**	**5.0**	**62**	**5.0**	**1.2**	**6.0**	**10**	**0.0086**	**120**	**0.5**	**3.2**	**1.0**	**0.17**	**0.00059**	**0.00014**	**0.00011**
	Commercial ESL	**NE**	**NE**	**1.8**	**4,900**	**15**	**1,600**	**2,000**	**6,300**	**33**	**7.5**	**210**	**920**	**400**	**2,300,000**	**9.8**	**280**	**NE**	**20**	**18**	**6.5**	**5.5**
M-6	May-19-88	--	--	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	**67**	<0.5	**7.4**	**46**	<0.5	<0.5	**1.7**	<3	--	ND	ND	ND
	Aug-1-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<30	--	--	--	--
	Oct-1-93	**100**	<50	<10	<10	<10	<10	--	**13**	<10	**140**	**450**	**13**	**24**	<20	<10	<10	--	--	--	--	--
	Nov-1-94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temporary Wells / Piezometers & Grab Samples																						
S-7	Nov-1-94	--	**1,700,000**	<25	**24.9**	**180**	**820**	--	**20**	<25	<25	<25	<25	<50	**21,000**	<25	<25	**7,000**	**--**	**620**	<9.8	<12
	Sep-6-06	--	**39,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9,300**	**--**	**9.4**	--	--
	Oct-15-20	**3,100**	**1,100**	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	**7,900**	<120	<120	**26,000 B1**	<150 B1	<10	<1.0	<1.0
S-8	Nov-1-94	--	**32,000**	<5	<5	<5	**15**	--	<5	<5	<5	<5	<5	<5	**7.0**	<5	<5	**2,300**	**--**	<49	<9.8	<4.9
	Sep-6-06	--	**3,900 YZ**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11,000**	**--**	<4.8	--	--
	Oct-15-20	<50	**260**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3,800**	<29	<10	<1.0	<1.0
S-9	Nov-1-94	--	<50	<5	<5	<5	<5	--	<5	<5	**3.0**	<5	<5	<5	<5	<5	<5	**130**	**--**	<0.5	**2.5**	**0.27**
	Oct-15-20	<50	**120**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**12**	<0.14	<10	**1.6**	<1.0
S-10	Nov-1-94	--	**30,000**	**7.0**	<5	<5	**41**	--	**24**	<5	<5	<5	<5	<5	<5	<5	<5	**5,000**	**--**	**56**	<0.94	<0.94
	Sep-6-06	--	**4,300 LYZ**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9,400**	**--**	**1.9 C**	--	--
	Oct-15-20	**4,700**	**27,000**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	<0.50	<0.50	<0.50	**2,900 B1**	<130 B1	<10	<1.0	<1.0
HA-1	Sep-6-06	--	**56 HY**	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	<0.71	--	<0.6	--	--

Notes:

DTW = Depth to water below TOC for wells and below floor slab for piezometers
DCA = Dichloroethane
DCE = Dichloroethene
MIBK = Methyl isobutyl ketone or 4-methyl-2-pentanone
PCP = Pentachlorophenol
SVOCs = Semi-Volatile Organic Compounds
TCA = Trichloroethane
TCE = Trichloroethene
TPHd = Total Petroleum Hydrocarbons as diesel
TPHg = Total Petroleum Hydrocarbons as gasoline
VOCs = Volatile Organic Compounds
µg/L = Micrograms per liter
-- = Not Analyzed
Detected concentrations listed in **bold**
< = Not detected above laboratory reporting limits
ND = Not Detected, reporting limit not provided

[1] = sum of alpha-chlordane and gamma-chlordane isomers
[2] = Breakdown product of Heptachlor; Heptachlor is a component in chlordane and a breakdown product of chlordane
<not detected at or above the listed analytical reporting limit
Y = Agreement between quantitative confirmation result exceed method recmmended limits
B1 = Aqueous sample that contains greater than 1 vol. % sediment (Results may be biased high)
C = presence confirmed, but RPD between columns exceeds 40%
H = Heavier hydrocarbons contributed to the quantitation
L = Lighter hydrocarbons contributed to the quantitation
Y = Sample exhibits chromatographic pattern, which does not resemble standard
Z = Sample contains unknown peak or peaks
NE = Not Established
ESLs = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final July 2019 (Rev. 2), Table Tier 1 ESL and Table GW-3 (Groundwater Vapor Intrusion Human Health Risk Level - Commercial/Industrial Land Use)
October 2020 Sampling Data

List of Figures

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Source: This Vicinity Map was Based on 2019 Google Imagery

NORTH

0 2,000 4,000 ft

Figure 1: Vicinity Map

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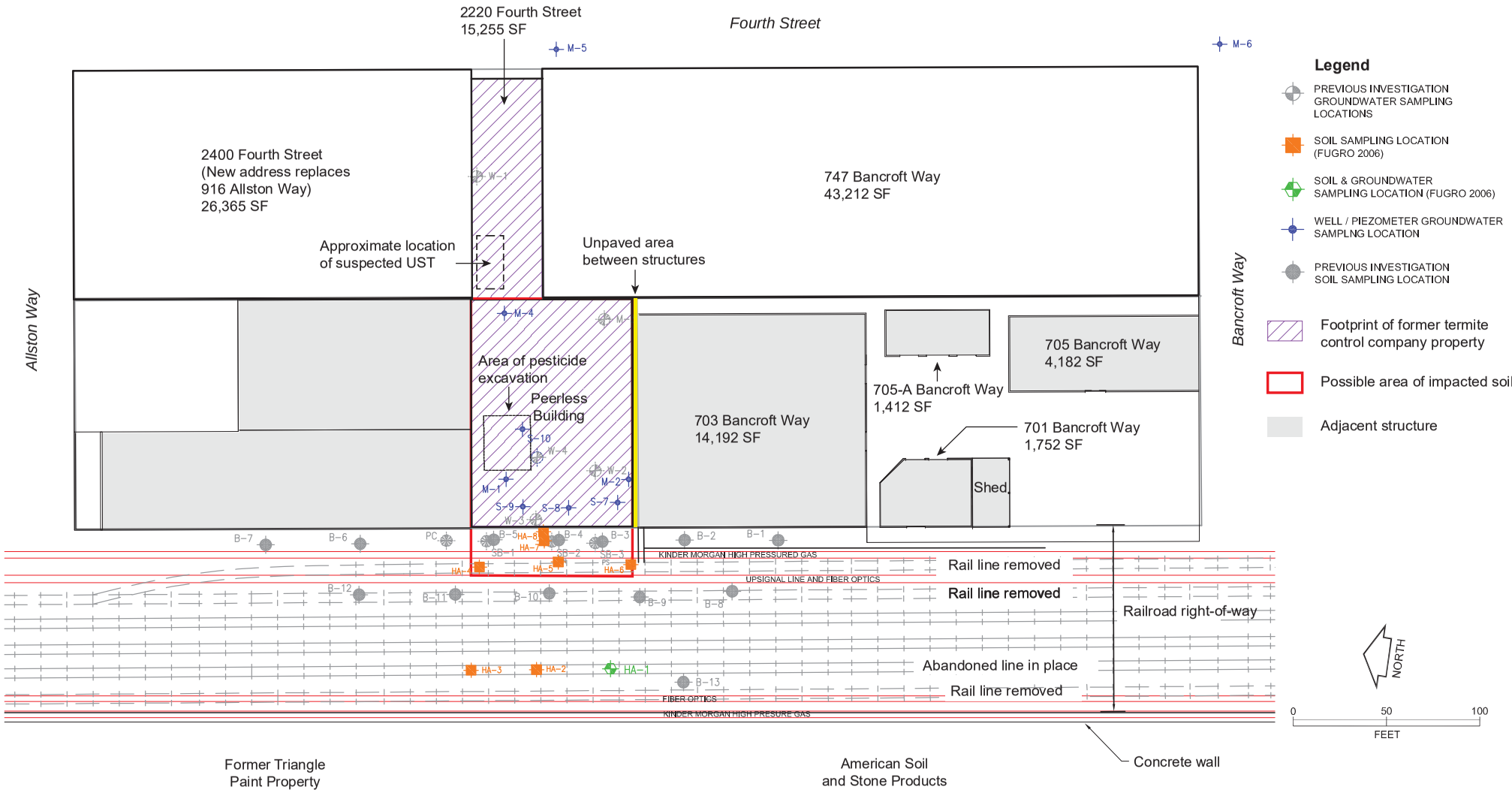
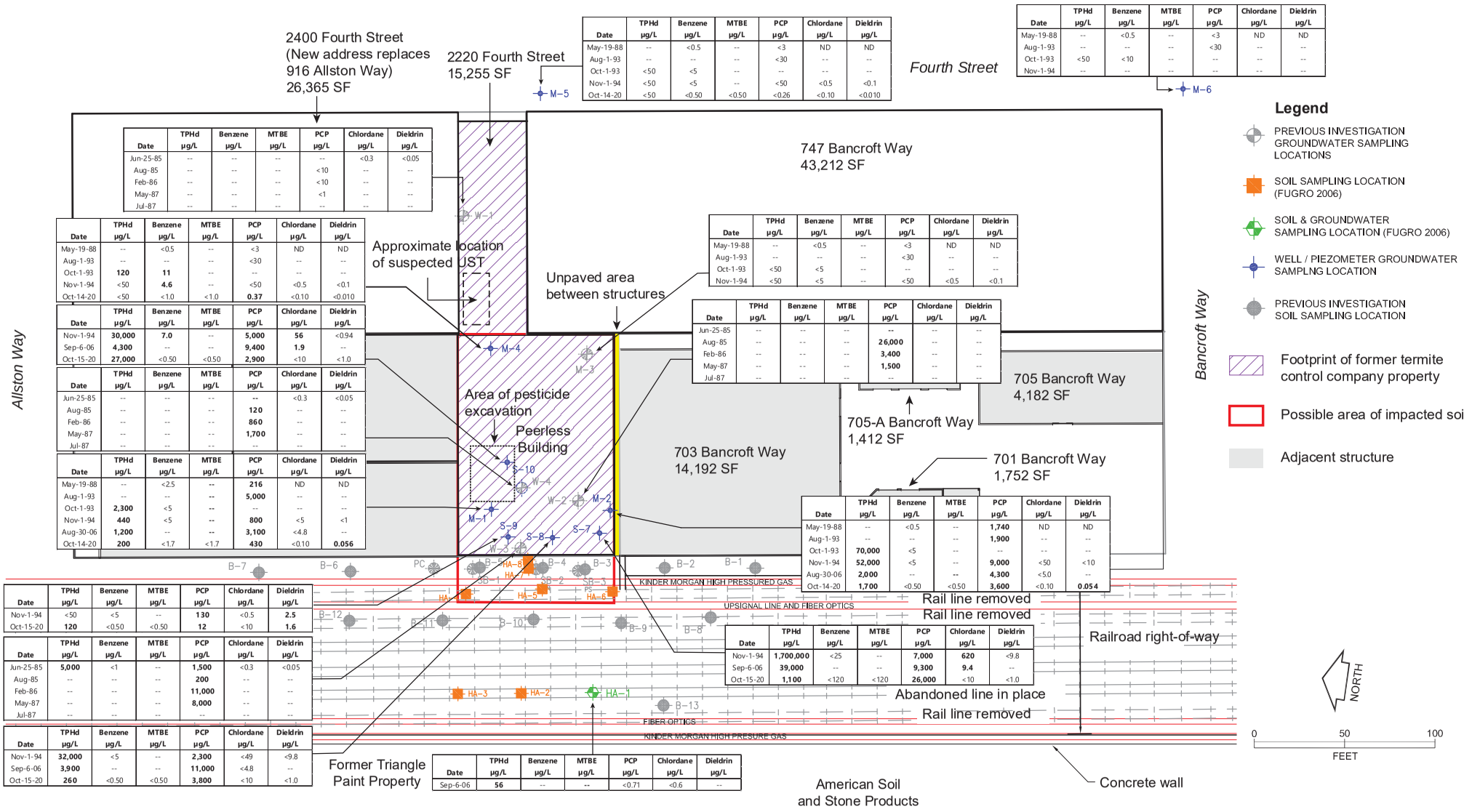


Figure 2: Site Plan

G:\jobdocs\698\04.00163392 2220 4th St 2020 GW Study & Consultation\07_Graphics\00_D_Figures\2_Chemicals_Detected_Historic_and_August_2006.ai, 11/18/2020, m.srisabaranjan



Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<0.5	--	<3	ND	ND
Aug-1-93	--	--	--	<30	--	--
Oct-1-93	<50	<5	--	--	--	--
Nov-1-94	<50	<5	--	<50	<0.5	<0.1
Oct-14-20	<50	<0.50	<0.50	<0.26	<0.10	<0.010

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<0.5	--	<3	ND	ND
Aug-1-93	--	--	--	<30	--	--
Oct-1-93	<50	<10	--	--	--	--
Nov-1-94	--	--	--	--	--	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Jun-25-85	--	--	--	--	<0.3	<0.05
Aug-85	--	--	--	<10	--	--
Feb-86	--	--	--	<10	--	--
May-87	--	--	--	<1	--	--
Jul-87	--	--	--	--	--	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<0.5	--	<3	ND	ND
Aug-1-93	--	--	--	<30	--	--
Oct-1-93	**120**	**11**	--	--	--	--
Nov-1-94	<50	**4.6**	--	<50	<0.5	<0.1
Oct-14-20	<50	<1.0	<1.0	**0.37**	<0.10	<0.010

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Nov-1-94	**30,000**	**7.0**	--	**5,000**	**56**	<0.94
Sep-6-06	**4,300**	--	--	**9,400**	**1.9**	--
Oct-15-20	**27,000**	<0.50	<0.50	**2,900**	<10	<1.0

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Jun-25-85	--	--	--	--	<0.3	<0.05
Aug-85	--	--	--	**120**	--	--
Feb-86	--	--	--	**860**	--	--
May-87	--	--	--	**1,700**	--	--
Jul-87	--	--	--	--	--	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<2.5	--	**216**	ND	ND
Aug-1-93	--	--	--	**5,000**	--	--
Oct-1-93	**2,300**	<5	--	--	--	--
Nov-1-94	**440**	<5	--	**800**	<5	<1
Aug-30-06	**1,200**	--	--	**3,100**	<4.8	--
Oct-14-20	**200**	<1.7	<1.7	**430**	<0.10	**0.056**

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Nov-1-94	<50	<5	--	**130**	<0.5	**2.5**
Oct-15-20	**120**	<0.50	<0.50	**12**	<10	**1.6**

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Jun-25-85	**5,000**	<1	--	**1,500**	<0.3	<0.05
Aug-85	--	--	--	**200**	--	--
Feb-86	--	--	--	**11,000**	--	--
May-87	--	--	--	**8,000**	--	--
Jul-87	--	--	--	--	--	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Nov-1-94	**32,000**	<5	--	**2,300**	<49	<9.8
Sep-6-06	**3,900**	--	--	**11,000**	<4.8	--
Oct-15-20	**260**	<0.50	<0.50	**3,800**	<10	<1.0

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Sep-6-06	**56**	--	--	<0.71	<0.6	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<0.5	--	<3	ND	ND
Aug-1-93	--	--	--	<30	--	--
Oct-1-93	<50	<5	--	--	--	--
Nov-1-94	<50	<5	--	<50	<0.5	<0.1

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Jun-25-85	--	--	--	**--**	--	--
Aug-85	--	--	--	**26,000**	--	--
Feb-86	--	--	--	**3,400**	--	--
May-87	--	--	--	**1,500**	--	--
Jul-87	--	--	--	--	--	--

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
May-19-88	--	<0.5	--	**1,740**	ND	ND
Aug-1-93	--	--	--	**1,900**	--	--
Oct-1-93	**70,000**	<5	--	--	--	--
Nov-1-94	**52,000**	<5	--	**9,000**	<50	<10
Aug-30-06	**2,000**	--	--	**4,300**	<5.0	--
Oct-14-20	**1,700**	<0.50	<0.50	**3,600**	<0.10	**0.054**

Date	TPHd µg/L	Benzene µg/L	MTBE µg/L	PCP µg/L	Chlordane µg/L	Dieldrin µg/L
Nov-1-94	**1,700,000**	<25	--	**7,000**	**620**	<9.8
Sep-6-06	**39,000**	--	--	**9,300**	**9.4**	--
Oct-15-20	**1,100**	<120	<120	**26,000**	<10	<1.0

Figure 3: Summary of Groundwater Data

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Appendix A

Well Sampling Forms

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.163392
SAMPLED BY: RET / AC
DATE: 10/4/20
WEATHER: Sunny, HOT

WELL NO.: MW-1
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 27.5 FEET Below slab

DEPTH TO GROUNDWATER (BTOC): 12.6 FEET
TIME: 7:14 HRS

FEET OF WATER IN WELL: 14.9 FEET

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

CALCULATED PURGE VOLUME: 7.3 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: None

PURGE METHOD: peristaltic / Bailer

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
1.5	7:31	17.9	6.71	825	=	105.6	8.84	~~Purged dry~~
5	8:33	18.1	6.8	828	=	108.3	3.54	
7		17.8	6.69	774	=	112.9	3.01	

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): ~~12.6~~ 12.8

DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: Bailer TIME SAMPLED: 8:43

CONTAINERS / PRESERVATIVE:

___/___ 40 ML		___/___ LITER	
___/___ Poly		___/___ OTHER	

ANALYSES: (Note if any samples are field filtered) see COC

____ TPHd, TPHmo (8015 w/ Silica gel)		____ Pesticides (8080)	
____ TPHg, BTEX, MTBE (8015/8020)		____ PCBs (8080)	
____ VOCs (8260)		____ Sulfate (300.0)	
____ HVOCs (8260)		____ Nitrate (300.0)	
____ Title 22/CAM 17 Metals (6010/7000)		____ Fe^{2+} - Field Filtered	

MISC FIELD OBSERVATION: Mostly clear, some floating particles

Equipment	Serial No.	Calibration
Conductivity		YSI DSS
pH		
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Pearless
PROJECT NO.: 96.163392
SAMPLED BY: BGT/AC
DATE: 10/14/20
WEATHER: Sunny Hot

WELL NO.: MW-2
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 29 FEET Before Bail

CALCULATED PURGE VOLUME: 8 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

DEPTH TO GROUNDWATER (BTOC): 12.7 FEET
TIME: 11:03 HRS

FREE PRODUCT: None

FEET OF WATER IN WELL: 16.3 FEET

PURGE METHOD: peristaltic

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
3	11:32	18.0	6.49	841	=	78.1	5.20	Clear
6	11:53	18.0	6.51	820	=	93.7	5.72	Clear, No odor
8	12:22	18.2	6.58	829	=	81.1	6.20	" "

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 22.3
DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: TIME SAMPLED: 12:35

CONTAINERS / PRESERVATIVE:

___/___ 40 ML		___/___ LITER	
___/___ Poly		___/___ OTHER	

ANALYSES: (Note if any samples are field filtered)

____ TPHd, TPHmo (8015 w/ Silica gel) See COC		____ Pesticides (8080)	
____ TPHg, BTEX, MTBE (8015/8020)		____ PCBs (8080)	
____ VOCs (8260)		____ Sulfate (300.0)	
____ HVOCs (8260)		____ Nitrate (300.0)	
____ Title 22/CAM 17 Metals (6010/7000)		____ Fe^{2+} - Field Filtered	

MISC FIELD OBSERVATION: Clear, No odor
Water reactive w/ HCl

Equipment	Serial No.	Calibration
Conductivity		YSI DSS
pH		
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.163392
SAMPLED BY: RST/AC
DATE: 10/14/20
WEATHER: Sunny Hot

WELL NO.: MW-4
WELL CASING DIAMETER: 2"
TOC ELEVATION: _____

TOTAL DEPTH OF CASING (BTOC): 29.7 FEET Below slab
DEPTH TO GROUNDWATER (BTOC): 12.3 FEET
TIME: 9:40 HRS
FEET OF WATER IN WELL: 17.4 FEET

CALCULATED PURGE VOLUME: 8.5 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)
FREE PRODUCT: None
PURGE METHOD: ~~Peristaltic~~ Bailer

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
6	10:00	17.9	6.7	697	—	235.4	2.41	turbid
8	10:18	17.8	6.74	821		157.6	2.71	Purged dry

CALCULATED DEPTH TO WATER @ 80% RECHARGE _____
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 13.1
DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: Bailer TIME SAMPLED: 10:33

CONTAINERS / PRESERVATIVE:

___/___ 40 ML	___/___ LITER
___/___ Poly	___/___ OTHER

ANALYSES: (Note if any samples are field filtered) See COC

- ___ TPHd, TPHmo (8015 w/ Silica gel)
- ___ TPHg, BTEX, MTBE (8015/8020)
- ___ VOCs (8260)
- ___ HVOCs (8260)
- ___ Title 22/CAM 17 Metals (6010/7000)
- ___ Pesticides (8080)
- ___ PCBs (8080)
- ___ Sulfate (300.0)
- ___ Nitrate (300.0)
- ___ Fe $^{2+}$ - Field Filtered

MISC FIELD OBSERVATION: Cloudy Brown water, NO odor

Equipment	Serial No.	Calibration
Conductivity		YSI DSS
pH		
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.00116033492
SAMPLED BY: KET / AC
DATE: 10/14/20
WEATHER: sunny hot

WELL NO.: MW-5
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 30.62 FEET Below Sidewalk

DEPTH TO GROUNDWATER (BTOC): 10.74 FEET

TIME: 12:30 ~~13:30~~ HRS

FEET OF WATER IN WELL: 19.92 FEET

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

CALCULATED PURGE VOLUME: 9.79 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT:

PURGE METHOD: Peristaltic

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
2.25	12:53	19.8	6.92	527	—	133.7	3.38	none
3.5	13:10	19.8	6.80	548	—	153.0	2.25	none
5	13:18	19.8	6.77	563	—	125	2.64	none
6.25	13:41	20.2	6.85	610	—	137 ~~137~~	~~4.30~~ 5.24	none
8	13:50	19.4	6.79	599	—	178.3	3.68	none
9.75	13:55	19.4	6.79	598	—	190.2	3.55	none

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 11.92

DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) ~~YES~~ NO

SAMPLING METHOD: TIME SAMPLED: 14:05

CONTAINERS / PRESERVATIVE:

/ 40 ML	/ LITER
/ Poly	/ OTHER

ANALYSES: (Note if any samples are field filtered) See COC

- ____ TPHd, TPHmo (8015 w/ Silica gel)
- ____ TPHg, BTEX, MTBE (8015/8020)
- ____ VOCs (8260)
- ____ HVOCs (8260)
- ____ Title 22/CAM 17 Metals (6010/7000)
- ____ Pesticides (8080)
- ____ PCBs (8080)
- ____ Sulfate (300.0)
- ____ Nitrate (300.0)
- ____ Fe^{2+} - Field Filtered

MISC FIELD OBSERVATION:

Equipment	Serial No.	Calibration
Conductivity		
pH		YSI 556
Turbidity		
Temperature		

front door of wire.com

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.00163398
SAMPLED BY: RJT / AL
DATE: 10/14/20
WEATHER: Sunny Hot

WELL NO.: MW6
WELL CASING DIAMETER: 2"
TOC ELEVATION: _____

TOTAL DEPTH OF CASING (BTOC): 30.7 FEET Below Sidewalk

DEPTH TO GROUNDWATER (BTOC): 10.28 FEET
TIME: 1414 HRS

FEET OF WATER IN WELL: 20.42 FEET

CALCULATED PURGE VOLUME: — gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: —

PURGE METHOD: Not Applicable

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)				Not Sampled				

CALCULATED DEPTH TO WATER @ 80% RECHARGE —
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): —

DTW GREATER THAN 80%? (circle) YES NO — Not applicable

OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: _____ TIME SAMPLED: _____

CONTAINERS / PRESERVATIVE:

___/___	40 ML	___/___	LITER
___/___	Poly	___/___	OTHER

ANALYSES: (Note if any samples are field filtered) Not Sampled

- ____ TPHd, TPHmo (8015 w/ Silica gel)
- ____ TPHg, BTEX, MTBE (8015/8020)
- ____ VOCs (8260)
- ____ HVOCs (8260)
- ____ Title 22/CAM 17 Metals (6010/7000)
- ____ Pesticides (8080)
- ____ PCBs (8080)
- ____ Sulfate (300.0)
- ____ Nitrate (300.0)
- ____ Fe^{2+} - Field Filtered

MISC FIELD OBSERVATION: Not applicable

Equipment	Serial No.	Calibration
Conductivity		
pH		
Turbidity	—	
Temperature		

Corner of 4th + Bancroft

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 64,00163392
SAMPLED BY: RST/AC
DATE: 10/14/20
WEATHER: Sunny Hot

WELL NO.: S-7
WELL CASING DIAMETER: 1"
TOC ELEVATION: _____

TOTAL DEPTH OF CASING (BTOC): 17.1 FEET Below slab

DEPTH TO GROUNDWATER (BTOC): 12.27 FEET
TIME: 4.83 HRS

FEET OF WATER IN WELL: _____ FEET

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER _____

CALCULATED PURGE VOLUME: _____ gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: _____

PURGE METHOD: peristaltic

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
0	10:00	20.0	6.94	1140	—	-64.8	3.64	petroleum odor / oily sheen
~~0.25~~ 0.25	10:	19.4	6.79	1146		-82.1	2.37	
Purged dry								

CALCULATED DEPTH TO WATER @ 80% RECHARGE _____
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 15.00

DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: _____ TIME SAMPLED: 9:27

CONTAINERS / PRESERVATIVE:

___/___ 40 ML	___/___ LITER
___/___ Poly	___/___ OTHER

TPHd, mo
Pest VOCs

10/19

ANALYSES: (Note if any samples are field filtered)

- ____ TPHd, TPHmo (8015 w/ Silica gel) See COC
- ____ TPHg, BTEX, MTBE (8015/8020)
- ____ VOCs (8260)
- ____ HVOCs (8260)
- ____ Title 22/CAM 17 Metals (6010/7000)
- ____ Pesticides (8080)
- ____ PCBs (8080)
- ____ Sulfate (300.0)
- ____ Nitrate (300.0)
- ____ Fe $^{2+}$ - Field Filtered

DTW 12.9 10/14
Sample 10:36

MISC FIELD OBSERVATION: _____

Equipment	Serial No.	Calibration
Conductivity		YSI DSS
pH		
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.50163392
SAMPLED BY: KPT / AC
DATE: 10/11/20
WEATHER: Sunny Hot

WELL NO.: B-8
WELL CASING DIAMETER: 1"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 16.88 FEET Below Slab

DEPTH TO GROUNDWATER (BTOC): 13.07 FEET
TIME: 9AM HRS

FEET OF WATER IN WELL: 3.81 FEET

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

CALCULATED PURGE VOLUME: 0.47 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT:

PURGE METHOD: Peristaltic

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
0	9:29	20.0	6.53	635	—	12.5	1.31	petroleum odor
0.25	9:31	18.8	6.64	827	—	33.3	3.69	
purged dry								

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 13.03
DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

TPHg dmo Pest 9:09 VOCs

SAMPLING METHOD: TIME SAMPLED:

CONTAINERS / PRESERVATIVE:

___/___	40 ML	___/___	LITER
___/___	Poly	___/___	OTHER

ANALYSES: (Note if any samples are field filtered)

- ___ TPHd, TPHmo (8015 w/ Silica gel)
- ___ TPHg, BTEX, MTBE (8015/8020)
- ___ VOCs (8260)
- ___ HVOCs (8260)
- ___ Title 22/CAM 17 Metals (6010/7000)
- ___ Pesticides (8080) — See COC
- ___ PCBs (8080)
- ___ Sulfate (300.0)
- ___ Nitrate (300.0)
- ___ Fe $^{2+}$ - Field Filtered

DTW
13.14 10/19
10:15
Sample 10:20
Pull

MISC FIELD OBSERVATION:

Equipment	Serial No.	Calibration
Conductivity		
pH		YSI DSS
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.00163372
SAMPLED BY: RGT/AC
DATE: 10/14/20
WEATHER: Sunny HOT

WELL NO.: S-9
WELL CASING DIAMETER: 4"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): ~~17.81~~ FEET Below Slab

CALCULATED PURGE VOLUME: 2.07 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

DEPTH TO GROUNDWATER (BTOC): 13.00 FEET
TIME: 7:35 HRS

FREE PRODUCT:

FEET OF WATER IN WELL: 4.81 FEET

PURGE METHOD: peristaltic

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
0.5 purged dry	7:56	19.9	6.96	440.6	—	144.0	6.12	Slight sediment color

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): ~~15.54~~ 15.02 10/15/20
DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

TPHd, dmo Pesticides Yes

SAMPLING METHOD: hand bail TIME SAMPLED: 8:47

CONTAINERS / PRESERVATIVE:

/ 40 ML		/ LITER	
/ Poly		/ OTHER	

Partial TPHg 1.5 vo as 10/19

ANALYSES: (Note if any samples are field filtered) See COC

- ____ TPHd, TPHmo (8015 w/ Silica gel)
- ____ TPHg, BTEX, MTBE (8015/8020)
- ____ VOCs (8260)
- ____ HVOCs (8260)
- ____ Title 22/CAM 17 Metals (6010/7000)
- ____ Pesticides (8080)
- ____ PCBs (8080)
- ____ Sulfate (300.0)
- ____ Nitrate (300.0)
- ____ Fe^{2+} - Field Filtered

DTW 17.5 9:45
Sample 9:48

MISC FIELD OBSERVATION:

Equipment	Serial No.	Calibration
Conductivity		VSL DSS
pH		
Turbidity		
Temperature		

FUGRO

WELL SAMPLING FORM

PROJECT NAME: Peerless
PROJECT NO.: 04.00163392
SAMPLED BY: KRT/AC
DATE: 10/14/20
WEATHER: Sunny, Hot

WELL NO.: S-10
WELL CASING DIAMETER: 1"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 14 FEET Below slab

CALCULATED PURGE VOLUME: 0.21 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

DEPTH TO GROUNDWATER (BTOC): 12.35 FEET
TIME: 6:39 HRS

FREE PRODUCT:

FEET OF WATER IN WELL: 1.65 FEET

PURGE METHOD: peristaltic

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)								
0	6:59	15.5	7.81	1057	—	-47.2	3.82	petroleum smell, sediment color
0.25	7:03	15.0	6.96	1052	—	-39.8	2.90	purged dry

CALCULATED DEPTH TO WATER @ 80% RECHARGE
(Total depth of casing - (feet of water in well *0.80)

TPHg, TPHd/mo VOCs Pesticides

DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 13.01 10/15/20

DTW GREATER THAN 80%? (circle) YES NO OKAY TO SAMPLE? (circle) YES NO

SAMPLING METHOD: peristaltic TIME SAMPLED: 8:30

10:10 13.29

CONTAINERS / PRESERVATIVE:

/	40 ML	/	LITER
/	Poly	/	OTHER

10/19 9:14
12.37 DTW

ANALYSES: (Note if any samples are field filtered) See COC

- ____ TPHd, TPHmo (8015 w/ Silica gel)
- ____ TPHg, BTEX, MTBE (8015/8020)
- ____ VOCs (8260)
- ____ HVOCs (8260)
- ____ Title 22/CAM 17 Metals (6010/7000)
- ____ Pesticides (8080)
- ____ PCBs (8080)
- ____ Sulfate (300.0)
- ____ Nitrate (300.0)
- ____ Fe^{2+} - Field Filtered

MISC FIELD OBSERVATION: Partial @ 9:16

Equipment	Serial No.	Calibration
Conductivity		YSI DSS
pH		
Turbidity		
Temperature		

Appendix B

Investigation Derived Waste Manifest

2110199

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	888-423-6060	1120204052

GENERATOR

5. Generator's Name and Mailing Address
Herst Ventures, Inc.
2220 Fourth Street
Berkeley CA 94710
Generator's Phone:

Generator's Site Address (if different than mailing address)
Herst Ventures, Inc.
703 Bancroft Way
Berkeley CA 94710

6. Transporter 1 Company Name
American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD028409019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	Non-Hazardous Waste Liquid (Purgewater)	1	DM	40	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weights or volumes are approximate.
AIS Job#80006-6-6 / Profile: 27578

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Karen Toulouse for Herst Ventures | Signature: Karen Toulouse | Month: 11 | Day: 23 | Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARCO MARTINEZ | Signature: Marco Martinez | Month: 11 | Day: 23 | Year: 2020

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

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Appendix C

Well Survey Report

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California 94590
(707) 553-2476 • virgilc@vcsurveying.com

November 18, 2020
Project No.: 3599-00

Karen Emery
Fugro West, Inc.
1777 Botelho Dr., Suite 262
Walnut Creek, Ca 94596

Subject: Monitoring Well Survey
2220 4th Street
Berkeley, CA

Dear Karen:

This is to confirm that we have proceeded at your request to survey the wells at the above referenced location. The survey was completed on November 11, 2020. The benchmark for this survey was a survey disk "PID DE8481", stamped "PT 04 LS 5672 1990". The latitude, longitude and coordinates are for top of casings and are based on the CSCS, Zone III (NAD83), Epoch 2017.50. Benchmark Elevation = 22.10 feet (NAVD 88).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				25.42	RIM M-1
37.8639720	-122.2996286	2142048.70	6042190.46	25.23	TOC M-1
				25.43	RIM M-2
37.8637982	-122.2995737	2141985.10	6042205.08	25.19	TOC M-2
				25.41	RIM M-4
37.8640332	-122.2993289	2142069.31	6042277.38	25.19	TOC M-4
				25.45	RIM M-5
37.8640548	-122.2988262	2142074.37	6042422.63	24.80	TOC M-5
				26.43	RIM M-6
37.8631147	-122.2985198	2141730.41	6042504.49	25.67	TOC M-6
				25.40	RIM S-7
37.8638062	-122.2996203	2141988.28	6042191.71	25.17	TOC S-7
				25.44	RIM S-8
37.8638731	-122.2996509	2142012.81	6042183.34	25.19	TOC S-8
				25.42	RIM S-9
37.8639389	-122.2996712	2142036.86	6042177.93	25.22	TOC S-9
				25.44	RIM S-10
37.8639674	-122.2995298	2142046.45	6042218.93	24.05	TOC S-10

Sincerely,

Virgil D. Chavez, PLS 6323

Appendix D

Data Quality Assessment &

Laboratory Analytical Reports

Data Quality Assessment

This section summarizes the Data Quality Assessment (DQA) activity for the recent groundwater sampling activities conducted at the Site. Fugro's DQA examines the quality of the data and determines if data sets are useable and if the data will satisfy Data Quality Objectives (DQO) for the project. All groundwater samples were submitted under chain-of-custody procedures to McCampbell Analytical, Inc. in Pittsburg, California. Fugro has reviewed each laboratory report for this field project. Fugro's review includes a review of the laboratory's test results and their quality assurance data to assess whether the data is of sufficient quality to meet the DQOs. Fugro's DQA summary for each laboratory report is presented below.

McCampbell Analytical, Inc. Work Order 2010730 – Sample Date October 14, 2020

- **DQA – Samples comply with sampling plan design.** Fugro collected samples using methods and locations described in Fugro's March 5, 2020 proposal.
- **DQA – Samples were tested within method hold times and test methods requested were followed.** By review of the laboratory reports, Fugro confirmed that the laboratory used the appropriate test methods and completed testing within allowable hold times.
- **DQA – Data results were within laboratory required tolerances for the test methods.** By review of the laboratory reports, Fugro confirmed that the data presented by the laboratory met their stated internal DQAs with the exception of the following:
  - For the Semi-Volatile Organic Compound (SVOC) analysis via Method 8270C, surrogate recoveries were noted to be outside accepted recovery limits. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For the SVOC analysis via Method 8270C, surrogate recovery was noted to be outside of the control limits due to the dilution of the sample and/or due to matrix interference. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For the Total Petroleum Hydrocarbons as gasoline (TPHg) analysis via Method 8015Bm, surrogate recovery was noted to be outside of the control limits due to coelution with another peak(s) / cluttered chromatogram. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For Volatile Organic Compounds (VOCs), the Matrix Spike/Matrix Spike Duplicate (MS/MSD) recovery and/or RPD was noted to be just outside of the lab's acceptance criteria; the lab noted that the Laboratory Control Sample (LCS) validated the prep batch. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For SVOCs, the Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recovery was noted to be just outside of the lab's acceptance criteria. This was noted to be on non-target analytes, as a result, Fugro doesn't consider this occurrence to invalidate the data.
- **DQA – Observed correlation of laboratory test results for primary VOCs.** No duplicate sample was analyzed as part of this sampling event.

- **DQA – Trip blank analysis showed no cross contamination between samples during transportation.** No trip blanks were analyzed as part of this sampling event.

Based on these DQA findings, we judge that the data contained within this laboratory report is valid and can be relied upon for the purpose of this study.

McCampbell Analytical, Inc. Work Order 2010779 – Sample Date October 15, 2020

- **DQA – Samples comply with sampling plan design.** Fugro collected samples using methods and locations described in Fugro's March 5, 2020 proposal.
- **DQA – Samples were tested within method hold times and test methods requested were followed.** By review of the laboratory reports, Fugro confirmed that the laboratory used the appropriate test methods and completed testing within allowable hold times.
- **DQA – Data results were within laboratory required tolerances for the test methods.** By review of the laboratory reports, Fugro confirmed that the data presented by the laboratory met their stated internal DQAs with the exception of the following:
  - For the organochlorine pesticide analysis via Method 8081A, surrogate recoveries were noted to be outside accepted recovery limits due to dilution of the sample. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For the organochlorine pesticide analysis via Method 8081A, the sample was diluted due to a cluttered chromatogram. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For the TPHd and TPHmo analysis via Method 8015B on sample S-10, the sample was diluted due to high organic content interfering with quantitative and/or qualitative analysis. Fugro has reviewed the results and we do not believe that this invalidates the data.
- **DQA – Observed correlation of laboratory test results for primary VOCs.** No duplicate sample was analyzed as part of this sampling event.
- **DQA – Trip blank analysis showed no cross contamination between samples during transportation.** No trip blanks were analyzed as part of this sampling event.

Based on these DQA findings, we judge that the data contained within this laboratory report is valid and can be relied upon for the purpose of this study.

McCampbell Analytical, Inc. Work Order 2010919 – Sample Date October 19, 2020

- **DQA – Samples comply with sampling plan design.** Fugro collected samples using methods and locations described in Fugro's March 5, 2020 proposal.
- **DQA – Samples were tested within method hold times and test methods requested were followed.** By review of the laboratory reports, Fugro confirmed that the laboratory used the appropriate test methods and completed testing within allowable hold times.

- **DQA – Data results were within laboratory required tolerances for the test methods.** By review of the laboratory reports, Fugro confirmed that the data presented by the laboratory met their stated internal DQAs with the exception of the following:
  - For the SVOC analysis via Method 8270C, surrogate recoveries were noted to be outside accepted recovery limits. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For the SVOC analysis via Method 8270C, surrogate recovery was noted to be outside of the control limits due to the dilution of the sample and/or due to matrix interference. Fugro has reviewed the results and we do not believe that this invalidates the data.
  - For SVOC analysis via Method 8270C on samples S-7 and S-10, the laboratory noted that the sample contained greater than 1 volume % sediment. We note that the presence of sediment in the samples may have biased the results high.
- **DQA – Observed correlation of laboratory test results for primary VOCs.** No duplicate sample was analyzed as part of this sampling event.
- **DQA – Trip blank analysis showed no cross contamination between samples during transportation.** No trip blanks were analyzed as part of this sampling event.

Based on these DQA findings, we judge that the data contained within this laboratory report is valid and can be relied upon for the purpose of this study.

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2010730

Report Created for: Fugro USA Land, Inc.

1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596

Project Contact: Karen Emery
Project P.O.:
Project: 04.00163392; Peerless

Project Received: 10/14/2020

Analytical Report reviewed & approved for release on 11/02/2020 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010730

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010730

Analytical Qualifiers

P	Agreement between quantitative confirmation results exceed method recommended limits
S	Surrogate recovery outside accepted recovery limits.
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.
c2	Surrogate recovery outside of the control limits due to matrix interference.
c4	Surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d7	Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e1	Unmodified or weakly modified diesel is significant
e2/e6	Diesel range compounds are significant; no recognizable pattern; and/or One to a few isolated peaks present in the TPH(d/mo) chromatogram
e7	Oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C
Date Prepared:	10/14/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001D	Water	10/14/2020 08:43	GC23 10152042.d	207408

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0050	1	10/15/2020 23:52
a-BHC	ND		0.010	1	10/15/2020 23:52
b-BHC	ND		0.0050	1	10/15/2020 23:52
d-BHC	ND		0.0050	1	10/15/2020 23:52
g-BHC	ND		0.020	1	10/15/2020 23:52
Chlordane (Technical)	ND		0.10	1	10/15/2020 23:52
a-Chlordane	ND		0.050	1	10/15/2020 23:52
g-Chlordane	ND		0.050	1	10/15/2020 23:52
p,p-DDD	ND		0.010	1	10/15/2020 23:52
p,p-DDE	ND		0.010	1	10/15/2020 23:52
p,p-DDT	ND		0.010	1	10/15/2020 23:52
Dieldrin	**0.056**	P	0.010	1	10/15/2020 23:52
Endosulfan I	ND		0.020	1	10/15/2020 23:52
Endosulfan II	ND		0.020	1	10/15/2020 23:52
Endosulfan sulfate	ND		0.050	1	10/15/2020 23:52
Endrin	ND		0.010	1	10/15/2020 23:52
Endrin aldehyde	ND		0.050	1	10/15/2020 23:52
Endrin ketone	ND		0.050	1	10/15/2020 23:52
Heptachlor	ND		0.010	1	10/15/2020 23:52
Heptachlor epoxide	ND		0.010	1	10/15/2020 23:52
Hexachlorobenzene	ND		0.50	1	10/15/2020 23:52
Hexachlorocyclopentadiene	ND		1.0	1	10/15/2020 23:52
Methoxychlor	ND		0.10	1	10/15/2020 23:52
Toxaphene	ND		0.50	1	10/15/2020 23:52

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	115	61-139	10/15/2020 23:52

Analyst(s): BRV

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C
Date Prepared:	10/14/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002D	Water	10/14/2020 12:35	GC23 10152043.d	207408

Analytes	Result	RL	DF	Date Analyzed
Aldrin	**0.12**	0.0050	1	10/16/2020 00:08
a-BHC	ND	0.010	1	10/16/2020 00:08
b-BHC	ND	0.0050	1	10/16/2020 00:08
d-BHC	**0.17**	0.0050	1	10/16/2020 00:08
g-BHC	ND	0.020	1	10/16/2020 00:08
Chlordane (Technical)	ND	0.10	1	10/16/2020 00:08
a-Chlordane	ND	0.050	1	10/16/2020 00:08
g-Chlordane	ND	0.050	1	10/16/2020 00:08
p,p-DDD	ND	0.010	1	10/16/2020 00:08
p,p-DDE	ND	0.010	1	10/16/2020 00:08
p,p-DDT	ND	0.010	1	10/16/2020 00:08
Dieldrin	**0.054**	0.010	1	10/16/2020 00:08
Endosulfan I	ND	0.020	1	10/16/2020 00:08
Endosulfan II	ND	0.020	1	10/16/2020 00:08
Endosulfan sulfate	ND	0.050	1	10/16/2020 00:08
Endrin	ND	0.010	1	10/16/2020 00:08
Endrin aldehyde	ND	0.050	1	10/16/2020 00:08
Endrin ketone	ND	0.050	1	10/16/2020 00:08
Heptachlor	ND	0.010	1	10/16/2020 00:08
Heptachlor epoxide	ND	0.010	1	10/16/2020 00:08
Hexachlorobenzene	ND	0.50	1	10/16/2020 00:08
Hexachlorocyclopentadiene	ND	1.0	1	10/16/2020 00:08
Methoxychlor	ND	0.10	1	10/16/2020 00:08
Toxaphene	ND	0.50	1	10/16/2020 00:08

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	120	61-139	10/16/2020 00:08

Analyst(s): BRV

(Cont.)

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C
Date Prepared:	10/14/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003D	Water	10/14/2020 10:33	GC23 10152044.d	207408

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0050	1	10/16/2020 00:23
a-BHC	ND	0.010	1	10/16/2020 00:23
b-BHC	ND	0.0050	1	10/16/2020 00:23
d-BHC	ND	0.0050	1	10/16/2020 00:23
g-BHC	ND	0.020	1	10/16/2020 00:23
Chlordane (Technical)	ND	0.10	1	10/16/2020 00:23
a-Chlordane	ND	0.050	1	10/16/2020 00:23
g-Chlordane	ND	0.050	1	10/16/2020 00:23
p,p-DDD	ND	0.010	1	10/16/2020 00:23
p,p-DDE	ND	0.010	1	10/16/2020 00:23
p,p-DDT	ND	0.010	1	10/16/2020 00:23
Dieldrin	ND	0.010	1	10/16/2020 00:23
Endosulfan I	ND	0.020	1	10/16/2020 00:23
Endosulfan II	ND	0.020	1	10/16/2020 00:23
Endosulfan sulfate	ND	0.050	1	10/16/2020 00:23
Endrin	ND	0.010	1	10/16/2020 00:23
Endrin aldehyde	ND	0.050	1	10/16/2020 00:23
Endrin ketone	ND	0.050	1	10/16/2020 00:23
Heptachlor	ND	0.010	1	10/16/2020 00:23
Heptachlor epoxide	ND	0.010	1	10/16/2020 00:23
Hexachlorobenzene	ND	0.50	1	10/16/2020 00:23
Hexachlorocyclopentadiene	ND	1.0	1	10/16/2020 00:23
Methoxychlor	ND	0.10	1	10/16/2020 00:23
Toxaphene	ND	0.50	1	10/16/2020 00:23

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	112	61-139	10/16/2020 00:23

Analyst(s): BRV

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C
Date Prepared:	10/14/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004D	Water	10/14/2020 14:05	GC23 10152045.d	207408

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0050	1	10/16/2020 00:39
a-BHC	ND	0.010	1	10/16/2020 00:39
b-BHC	ND	0.0050	1	10/16/2020 00:39
d-BHC	ND	0.0050	1	10/16/2020 00:39
g-BHC	ND	0.020	1	10/16/2020 00:39
Chlordane (Technical)	ND	0.10	1	10/16/2020 00:39
a-Chlordane	ND	0.050	1	10/16/2020 00:39
g-Chlordane	ND	0.050	1	10/16/2020 00:39
p,p-DDD	ND	0.010	1	10/16/2020 00:39
p,p-DDE	ND	0.010	1	10/16/2020 00:39
p,p-DDT	ND	0.010	1	10/16/2020 00:39
Dieldrin	ND	0.010	1	10/16/2020 00:39
Endosulfan I	ND	0.020	1	10/16/2020 00:39
Endosulfan II	ND	0.020	1	10/16/2020 00:39
Endosulfan sulfate	ND	0.050	1	10/16/2020 00:39
Endrin	ND	0.010	1	10/16/2020 00:39
Endrin aldehyde	ND	0.050	1	10/16/2020 00:39
Endrin ketone	ND	0.050	1	10/16/2020 00:39
Heptachlor	ND	0.010	1	10/16/2020 00:39
Heptachlor epoxide	ND	0.010	1	10/16/2020 00:39
Hexachlorobenzene	ND	0.50	1	10/16/2020 00:39
Hexachlorocyclopentadiene	ND	1.0	1	10/16/2020 00:39
Methoxychlor	ND	0.10	1	10/16/2020 00:39
Toxaphene	ND	0.50	1	10/16/2020 00:39

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	101	61-139	10/16/2020 00:39

Analyst(s): BRV

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001B	Water	10/14/2020 08:43	GC38 10162027.D	207547

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	130	3.33	10/16/2020 23:55
tert-Amyl methyl ether (TAME)	ND	1.7	3.33	10/16/2020 23:55
Benzene	ND	1.7	3.33	10/16/2020 23:55
Bromobenzene	ND	1.7	3.33	10/16/2020 23:55
Bromochloromethane	ND	1.7	3.33	10/16/2020 23:55
Bromodichloromethane	ND	1.7	3.33	10/16/2020 23:55
Bromoform	ND	1.7	3.33	10/16/2020 23:55
Bromomethane	ND	1.7	3.33	10/16/2020 23:55
2-Butanone (MEK)	ND	17	3.33	10/16/2020 23:55
t-Butyl alcohol (TBA)	ND	17	3.33	10/16/2020 23:55
n-Butyl benzene	ND	1.7	3.33	10/16/2020 23:55
sec-Butyl benzene	ND	1.7	3.33	10/16/2020 23:55
tert-Butyl benzene	ND	1.7	3.33	10/16/2020 23:55
Carbon Disulfide	ND	1.7	3.33	10/16/2020 23:55
Carbon Tetrachloride	ND	1.7	3.33	10/16/2020 23:55
Chlorobenzene	ND	1.7	3.33	10/16/2020 23:55
Chloroethane	ND	1.7	3.33	10/16/2020 23:55
Chloroform	ND	1.7	3.33	10/16/2020 23:55
Chloromethane	ND	1.7	3.33	10/16/2020 23:55
2-Chlorotoluene	ND	1.7	3.33	10/16/2020 23:55
4-Chlorotoluene	ND	1.7	3.33	10/16/2020 23:55
Dibromochloromethane	ND	1.7	3.33	10/16/2020 23:55
1,2-Dibromo-3-chloropropane	ND	3.3	3.33	10/16/2020 23:55
1,2-Dibromoethane (EDB)	ND	1.7	3.33	10/16/2020 23:55
Dibromomethane	ND	1.7	3.33	10/16/2020 23:55
1,2-Dichlorobenzene	ND	1.7	3.33	10/16/2020 23:55
1,3-Dichlorobenzene	ND	1.7	3.33	10/16/2020 23:55
1,4-Dichlorobenzene	ND	1.7	3.33	10/16/2020 23:55
Dichlorodifluoromethane	ND	1.7	3.33	10/16/2020 23:55
1,1-Dichloroethane	**8.1**	1.7	3.33	10/16/2020 23:55
1,2-Dichloroethane (1,2-DCA)	ND	1.7	3.33	10/16/2020 23:55
1,1-Dichloroethene	**4.3**	1.7	3.33	10/16/2020 23:55
cis-1,2-Dichloroethene	**12**	1.7	3.33	10/16/2020 23:55
trans-1,2-Dichloroethene	ND	1.7	3.33	10/16/2020 23:55
1,2-Dichloropropane	ND	1.7	3.33	10/16/2020 23:55
1,3-Dichloropropane	ND	1.7	3.33	10/16/2020 23:55
2,2-Dichloropropane	ND	1.7	3.33	10/16/2020 23:55

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001B	Water	10/14/2020 08:43	GC38 10162027.D	207547

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	1.7	3.33	10/16/2020 23:55
cis-1,3-Dichloropropene	ND	1.7	3.33	10/16/2020 23:55
trans-1,3-Dichloropropene	ND	1.7	3.33	10/16/2020 23:55
Diisopropyl ether (DIPE)	ND	1.7	3.33	10/16/2020 23:55
Ethylbenzene	ND	1.7	3.33	10/16/2020 23:55
Ethyl tert-butyl ether (ETBE)	ND	1.7	3.33	10/16/2020 23:55
Freon 113	ND	1.7	3.33	10/16/2020 23:55
Hexachlorobutadiene	ND	1.7	3.33	10/16/2020 23:55
Hexachloroethane	ND	1.7	3.33	10/16/2020 23:55
2-Hexanone	ND	3.3	3.33	10/16/2020 23:55
Isopropylbenzene	ND	1.7	3.33	10/16/2020 23:55
4-Isopropyl toluene	ND	1.7	3.33	10/16/2020 23:55
Methyl-t-butyl ether (MTBE)	ND	1.7	3.33	10/16/2020 23:55
Methylene chloride	ND	6.7	3.33	10/16/2020 23:55
4-Methyl-2-pentanone (MIBK)	ND	1.7	3.33	10/16/2020 23:55
Naphthalene	ND	3.3	3.33	10/16/2020 23:55
n-Propyl benzene	ND	1.7	3.33	10/16/2020 23:55
Styrene	ND	6.7	3.33	10/16/2020 23:55
1,1,1,2-Tetrachloroethane	ND	1.7	3.33	10/16/2020 23:55
1,1,2,2-Tetrachloroethane	ND	1.7	3.33	10/16/2020 23:55
Tetrachloroethene	ND	1.7	3.33	10/16/2020 23:55
Toluene	ND	1.7	3.33	10/16/2020 23:55
1,2,3-Trichlorobenzene	ND	1.7	3.33	10/16/2020 23:55
1,2,4-Trichlorobenzene	ND	1.7	3.33	10/16/2020 23:55
1,1,1-Trichloroethane	ND	1.7	3.33	10/16/2020 23:55
1,1,2-Trichloroethane	ND	1.7	3.33	10/16/2020 23:55
Trichloroethene	**56**	1.7	3.33	10/16/2020 23:55
Trichlorofluoromethane	ND	1.7	3.33	10/16/2020 23:55
1,2,3-Trichloropropane	ND	1.7	3.33	10/16/2020 23:55
1,2,4-Trimethylbenzene	ND	1.7	3.33	10/16/2020 23:55
1,3,5-Trimethylbenzene	ND	1.7	3.33	10/16/2020 23:55
Vinyl Chloride	ND	1.7	3.33	10/16/2020 23:55
m,p-Xylene	ND	1.7	3.33	10/16/2020 23:55
o-Xylene	ND	1.7	3.33	10/16/2020 23:55
Xylenes, Total	ND	1.7	3.33	10/16/2020 23:55

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	**2010730-001B**	**Water**	**10/14/2020 08:43**	**GC38 10162027.D**	**207547**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	91	78-112		10/16/2020 23:55
Toluene-d8	102	82-109		10/16/2020 23:55
4-BFB	94	63-121		10/16/2020 23:55

Analyst(s): KF

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002B	Water	10/14/2020 12:35	GC38 10162009.D	207547

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	1	10/16/2020 11:47
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/16/2020 11:47
Benzene	ND	0.50	1	10/16/2020 11:47
Bromobenzene	ND	0.50	1	10/16/2020 11:47
Bromochloromethane	ND	0.50	1	10/16/2020 11:47
Bromodichloromethane	ND	0.50	1	10/16/2020 11:47
Bromoform	ND	0.50	1	10/16/2020 11:47
Bromomethane	ND	0.50	1	10/16/2020 11:47
2-Butanone (MEK)	ND	5.0	1	10/16/2020 11:47
t-Butyl alcohol (TBA)	ND	5.0	1	10/16/2020 11:47
n-Butyl benzene	ND	0.50	1	10/16/2020 11:47
sec-Butyl benzene	ND	0.50	1	10/16/2020 11:47
tert-Butyl benzene	ND	0.50	1	10/16/2020 11:47
Carbon Disulfide	ND	0.50	1	10/16/2020 11:47
Carbon Tetrachloride	ND	0.50	1	10/16/2020 11:47
Chlorobenzene	ND	0.50	1	10/16/2020 11:47
Chloroethane	ND	0.50	1	10/16/2020 11:47
Chloroform	ND	0.50	1	10/16/2020 11:47
Chloromethane	ND	0.50	1	10/16/2020 11:47
2-Chlorotoluene	ND	0.50	1	10/16/2020 11:47
4-Chlorotoluene	ND	0.50	1	10/16/2020 11:47
Dibromochloromethane	ND	0.50	1	10/16/2020 11:47
1,2-Dibromo-3-chloropropane	ND	1.0	1	10/16/2020 11:47
1,2-Dibromoethane (EDB)	ND	0.50	1	10/16/2020 11:47
Dibromomethane	ND	0.50	1	10/16/2020 11:47
1,2-Dichlorobenzene	ND	0.50	1	10/16/2020 11:47
1,3-Dichlorobenzene	ND	0.50	1	10/16/2020 11:47
1,4-Dichlorobenzene	ND	0.50	1	10/16/2020 11:47
Dichlorodifluoromethane	ND	0.50	1	10/16/2020 11:47
1,1-Dichloroethane	ND	0.50	1	10/16/2020 11:47
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/16/2020 11:47
1,1-Dichloroethene	ND	0.50	1	10/16/2020 11:47
cis-1,2-Dichloroethene	ND	0.50	1	10/16/2020 11:47
trans-1,2-Dichloroethene	ND	0.50	1	10/16/2020 11:47
1,2-Dichloropropane	ND	0.50	1	10/16/2020 11:47
1,3-Dichloropropane	ND	0.50	1	10/16/2020 11:47
2,2-Dichloropropane	ND	0.50	1	10/16/2020 11:47

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002B	Water	10/14/2020 12:35	GC38 10162009.D	207547

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/16/2020 11:47
cis-1,3-Dichloropropene	ND	0.50	1	10/16/2020 11:47
trans-1,3-Dichloropropene	ND	0.50	1	10/16/2020 11:47
Diisopropyl ether (DIPE)	ND	0.50	1	10/16/2020 11:47
Ethylbenzene	ND	0.50	1	10/16/2020 11:47
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/16/2020 11:47
Freon 113	ND	0.50	1	10/16/2020 11:47
Hexachlorobutadiene	ND	0.50	1	10/16/2020 11:47
Hexachloroethane	ND	0.50	1	10/16/2020 11:47
2-Hexanone	ND	1.0	1	10/16/2020 11:47
Isopropylbenzene	ND	0.50	1	10/16/2020 11:47
4-Isopropyl toluene	ND	0.50	1	10/16/2020 11:47
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/16/2020 11:47
Methylene chloride	ND	2.0	1	10/16/2020 11:47
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/16/2020 11:47
Naphthalene	ND	1.0	1	10/16/2020 11:47
n-Propyl benzene	ND	0.50	1	10/16/2020 11:47
Styrene	ND	2.0	1	10/16/2020 11:47
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/16/2020 11:47
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/16/2020 11:47
Tetrachloroethene	ND	0.50	1	10/16/2020 11:47
Toluene	ND	0.50	1	10/16/2020 11:47
1,2,3-Trichlorobenzene	ND	0.50	1	10/16/2020 11:47
1,2,4-Trichlorobenzene	ND	0.50	1	10/16/2020 11:47
1,1,1-Trichloroethane	ND	0.50	1	10/16/2020 11:47
1,1,2-Trichloroethane	ND	0.50	1	10/16/2020 11:47
Trichloroethene	ND	0.50	1	10/16/2020 11:47
Trichlorofluoromethane	ND	0.50	1	10/16/2020 11:47
1,2,3-Trichloropropane	ND	0.50	1	10/16/2020 11:47
1,2,4-Trimethylbenzene	ND	0.50	1	10/16/2020 11:47
1,3,5-Trimethylbenzene	ND	0.50	1	10/16/2020 11:47
Vinyl Chloride	ND	0.50	1	10/16/2020 11:47
m,p-Xylene	ND	0.50	1	10/16/2020 11:47
o-Xylene	**16**	0.50	1	10/16/2020 11:47
Xylenes, Total	**16**	0.50	1	10/16/2020 11:47

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002B	Water	10/14/2020 12:35	GC38 10162009.D	207547

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	91	78-112		10/16/2020 11:47
Toluene-d8	99	82-109		10/16/2020 11:47
4-BFB	92	63-121		10/16/2020 11:47

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003B	Water	10/14/2020 10:33	GC38 10162028.D	207547

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	80	2	10/17/2020 00:33
tert-Amyl methyl ether (TAME)	ND	1.0	2	10/17/2020 00:33
Benzene	ND	1.0	2	10/17/2020 00:33
Bromobenzene	ND	1.0	2	10/17/2020 00:33
Bromochloromethane	ND	1.0	2	10/17/2020 00:33
Bromodichloromethane	ND	1.0	2	10/17/2020 00:33
Bromoform	ND	1.0	2	10/17/2020 00:33
Bromomethane	ND	1.0	2	10/17/2020 00:33
2-Butanone (MEK)	ND	10	2	10/17/2020 00:33
t-Butyl alcohol (TBA)	ND	10	2	10/17/2020 00:33
n-Butyl benzene	ND	1.0	2	10/17/2020 00:33
sec-Butyl benzene	ND	1.0	2	10/17/2020 00:33
tert-Butyl benzene	ND	1.0	2	10/17/2020 00:33
Carbon Disulfide	ND	1.0	2	10/17/2020 00:33
Carbon Tetrachloride	ND	1.0	2	10/17/2020 00:33
Chlorobenzene	ND	1.0	2	10/17/2020 00:33
Chloroethane	ND	1.0	2	10/17/2020 00:33
Chloroform	ND	1.0	2	10/17/2020 00:33
Chloromethane	ND	1.0	2	10/17/2020 00:33
2-Chlorotoluene	ND	1.0	2	10/17/2020 00:33
4-Chlorotoluene	ND	1.0	2	10/17/2020 00:33
Dibromochloromethane	ND	1.0	2	10/17/2020 00:33
1,2-Dibromo-3-chloropropane	ND	2.0	2	10/17/2020 00:33
1,2-Dibromoethane (EDB)	ND	1.0	2	10/17/2020 00:33
Dibromomethane	ND	1.0	2	10/17/2020 00:33
1,2-Dichlorobenzene	ND	1.0	2	10/17/2020 00:33
1,3-Dichlorobenzene	ND	1.0	2	10/17/2020 00:33
1,4-Dichlorobenzene	ND	1.0	2	10/17/2020 00:33
Dichlorodifluoromethane	ND	1.0	2	10/17/2020 00:33
1,1-Dichloroethane	**42**	1.0	2	10/17/2020 00:33
1,2-Dichloroethane (1,2-DCA)	**1.8**	1.0	2	10/17/2020 00:33
1,1-Dichloroethene	**24**	1.0	2	10/17/2020 00:33
cis-1,2-Dichloroethene	ND	1.0	2	10/17/2020 00:33
trans-1,2-Dichloroethene	ND	1.0	2	10/17/2020 00:33
1,2-Dichloropropane	ND	1.0	2	10/17/2020 00:33
1,3-Dichloropropane	ND	1.0	2	10/17/2020 00:33
2,2-Dichloropropane	ND	1.0	2	10/17/2020 00:33

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003B	Water	10/14/2020 10:33	GC38 10162028.D	207547

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0	2	10/17/2020 00:33
cis-1,3-Dichloropropene	ND	1.0	2	10/17/2020 00:33
trans-1,3-Dichloropropene	ND	1.0	2	10/17/2020 00:33
Diisopropyl ether (DIPE)	ND	1.0	2	10/17/2020 00:33
Ethylbenzene	ND	1.0	2	10/17/2020 00:33
Ethyl tert-butyl ether (ETBE)	ND	1.0	2	10/17/2020 00:33
Freon 113	ND	1.0	2	10/17/2020 00:33
Hexachlorobutadiene	ND	1.0	2	10/17/2020 00:33
Hexachloroethane	ND	1.0	2	10/17/2020 00:33
2-Hexanone	ND	2.0	2	10/17/2020 00:33
Isopropylbenzene	ND	1.0	2	10/17/2020 00:33
4-Isopropyl toluene	ND	1.0	2	10/17/2020 00:33
Methyl-t-butyl ether (MTBE)	ND	1.0	2	10/17/2020 00:33
Methylene chloride	ND	4.0	2	10/17/2020 00:33
4-Methyl-2-pentanone (MIBK)	ND	1.0	2	10/17/2020 00:33
Naphthalene	ND	2.0	2	10/17/2020 00:33
n-Propyl benzene	ND	1.0	2	10/17/2020 00:33
Styrene	ND	4.0	2	10/17/2020 00:33
1,1,1,2-Tetrachloroethane	ND	1.0	2	10/17/2020 00:33
1,1,2,2-Tetrachloroethane	ND	1.0	2	10/17/2020 00:33
Tetrachloroethene	ND	1.0	2	10/17/2020 00:33
Toluene	ND	1.0	2	10/17/2020 00:33
1,2,3-Trichlorobenzene	ND	1.0	2	10/17/2020 00:33
1,2,4-Trichlorobenzene	ND	1.0	2	10/17/2020 00:33
1,1,1-Trichloroethane	ND	1.0	2	10/17/2020 00:33
1,1,2-Trichloroethane	ND	1.0	2	10/17/2020 00:33
Trichloroethene	**16**	1.0	2	10/17/2020 00:33
Trichlorofluoromethane	ND	1.0	2	10/17/2020 00:33
1,2,3-Trichloropropane	ND	1.0	2	10/17/2020 00:33
1,2,4-Trimethylbenzene	ND	1.0	2	10/17/2020 00:33
1,3,5-Trimethylbenzene	ND	1.0	2	10/17/2020 00:33
Vinyl Chloride	ND	1.0	2	10/17/2020 00:33
m,p-Xylene	ND	1.0	2	10/17/2020 00:33
o-Xylene	ND	1.0	2	10/17/2020 00:33
Xylenes, Total	ND	1.0	2	10/17/2020 00:33

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	**2010730-003B**	**Water**	**10/14/2020 10:33**	**GC38 10162028.D**	**207547**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	96	78-112		10/17/2020 00:33
Toluene-d8	101	82-109		10/17/2020 00:33
4-BFB	89	63-121		10/17/2020 00:33

Analyst(s): KF

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004B	Water	10/14/2020 14:05	GC38 10162012.D	207547

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	1	10/16/2020 13:42
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/16/2020 13:42
Benzene	ND	0.50	1	10/16/2020 13:42
Bromobenzene	ND	0.50	1	10/16/2020 13:42
Bromochloromethane	ND	0.50	1	10/16/2020 13:42
Bromodichloromethane	ND	0.50	1	10/16/2020 13:42
Bromoform	ND	0.50	1	10/16/2020 13:42
Bromomethane	ND	0.50	1	10/16/2020 13:42
2-Butanone (MEK)	ND	5.0	1	10/16/2020 13:42
t-Butyl alcohol (TBA)	ND	5.0	1	10/16/2020 13:42
n-Butyl benzene	ND	0.50	1	10/16/2020 13:42
sec-Butyl benzene	ND	0.50	1	10/16/2020 13:42
tert-Butyl benzene	ND	0.50	1	10/16/2020 13:42
Carbon Disulfide	ND	0.50	1	10/16/2020 13:42
Carbon Tetrachloride	ND	0.50	1	10/16/2020 13:42
Chlorobenzene	ND	0.50	1	10/16/2020 13:42
Chloroethane	ND	0.50	1	10/16/2020 13:42
Chloroform	ND	0.50	1	10/16/2020 13:42
Chloromethane	ND	0.50	1	10/16/2020 13:42
2-Chlorotoluene	ND	0.50	1	10/16/2020 13:42
4-Chlorotoluene	ND	0.50	1	10/16/2020 13:42
Dibromochloromethane	ND	0.50	1	10/16/2020 13:42
1,2-Dibromo-3-chloropropane	ND	1.0	1	10/16/2020 13:42
1,2-Dibromoethane (EDB)	ND	0.50	1	10/16/2020 13:42
Dibromomethane	ND	0.50	1	10/16/2020 13:42
1,2-Dichlorobenzene	ND	0.50	1	10/16/2020 13:42
1,3-Dichlorobenzene	ND	0.50	1	10/16/2020 13:42
1,4-Dichlorobenzene	ND	0.50	1	10/16/2020 13:42
Dichlorodifluoromethane	ND	0.50	1	10/16/2020 13:42
1,1-Dichloroethane	ND	0.50	1	10/16/2020 13:42
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/16/2020 13:42
1,1-Dichloroethene	ND	0.50	1	10/16/2020 13:42
cis-1,2-Dichloroethene	**10**	0.50	1	10/16/2020 13:42
trans-1,2-Dichloroethene	**2.1**	0.50	1	10/16/2020 13:42
1,2-Dichloropropane	ND	0.50	1	10/16/2020 13:42
1,3-Dichloropropane	ND	0.50	1	10/16/2020 13:42
2,2-Dichloropropane	ND	0.50	1	10/16/2020 13:42

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Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
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Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004B	Water	10/14/2020 14:05	GC38 10162012.D	207547

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/16/2020 13:42
cis-1,3-Dichloropropene	ND	0.50	1	10/16/2020 13:42
trans-1,3-Dichloropropene	ND	0.50	1	10/16/2020 13:42
Diisopropyl ether (DIPE)	ND	0.50	1	10/16/2020 13:42
Ethylbenzene	ND	0.50	1	10/16/2020 13:42
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/16/2020 13:42
Freon 113	ND	0.50	1	10/16/2020 13:42
Hexachlorobutadiene	ND	0.50	1	10/16/2020 13:42
Hexachloroethane	ND	0.50	1	10/16/2020 13:42
2-Hexanone	ND	1.0	1	10/16/2020 13:42
Isopropylbenzene	ND	0.50	1	10/16/2020 13:42
4-Isopropyl toluene	ND	0.50	1	10/16/2020 13:42
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/16/2020 13:42
Methylene chloride	ND	2.0	1	10/16/2020 13:42
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/16/2020 13:42
Naphthalene	ND	1.0	1	10/16/2020 13:42
n-Propyl benzene	ND	0.50	1	10/16/2020 13:42
Styrene	ND	2.0	1	10/16/2020 13:42
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/16/2020 13:42
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/16/2020 13:42
Tetrachloroethene	ND	0.50	1	10/16/2020 13:42
Toluene	ND	0.50	1	10/16/2020 13:42
1,2,3-Trichlorobenzene	ND	0.50	1	10/16/2020 13:42
1,2,4-Trichlorobenzene	ND	0.50	1	10/16/2020 13:42
1,1,1-Trichloroethane	ND	0.50	1	10/16/2020 13:42
1,1,2-Trichloroethane	ND	0.50	1	10/16/2020 13:42
Trichloroethene	**9.3**	0.50	1	10/16/2020 13:42
Trichlorofluoromethane	ND	0.50	1	10/16/2020 13:42
1,2,3-Trichloropropane	ND	0.50	1	10/16/2020 13:42
1,2,4-Trimethylbenzene	ND	0.50	1	10/16/2020 13:42
1,3,5-Trimethylbenzene	ND	0.50	1	10/16/2020 13:42
Vinyl Chloride	ND	0.50	1	10/16/2020 13:42
m,p-Xylene	ND	0.50	1	10/16/2020 13:42
o-Xylene	ND	0.50	1	10/16/2020 13:42
Xylenes, Total	ND	0.50	1	10/16/2020 13:42

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Analytical Report

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Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/16/2020-10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	**2010730-004B**	**Water**	**10/14/2020 14:05**	**GC38 10162012.D**	**207547**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	86	78-112		10/16/2020 13:42
Toluene-d8	99	82-109		10/16/2020 13:42
4-BFB	88	63-121		10/16/2020 13:42

Analyst(s): KF

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001C	Water	10/14/2020 08:43	GC21 10232018.D	207352

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.26	50	10/23/2020 13:34
Acenaphthylene	ND	0.26	50	10/23/2020 13:34
Acetochlor	ND	51	50	10/23/2020 13:34
Anthracene	ND	0.51	50	10/23/2020 13:34
Benzidine	ND	260	50	10/23/2020 13:34
Benzo (a) anthracene	ND	2.6	50	10/23/2020 13:34
Benzo (a) pyrene	ND	0.26	50	10/23/2020 13:34
Benzo (b) fluoranthene	ND	1.0	50	10/23/2020 13:34
Benzo (g,h,i) perylene	ND	1.0	50	10/23/2020 13:34
Benzo (k) fluoranthene	ND	0.51	50	10/23/2020 13:34
Benzoic Acid	ND	260	50	10/23/2020 13:34
Benzyl Alcohol	ND	260	50	10/23/2020 13:34
1,1-Biphenyl	ND	2.6	50	10/23/2020 13:34
Bis (2-chloroethoxy) Methane	ND	51	50	10/23/2020 13:34
Bis (2-chloroethyl) Ether	ND	0.26	50	10/23/2020 13:34
Bis (2-chloroisopropyl) Ether	ND	2.6	50	10/23/2020 13:34
Bis (2-ethylhexyl) Adipate	ND	51	50	10/23/2020 13:34
Bis (2-ethylhexyl) Phthalate	ND	10	50	10/23/2020 13:34
4-Bromophenyl Phenyl Ether	ND	51	50	10/23/2020 13:34
Butylbenzyl Phthalate	ND	2.6	50	10/23/2020 13:34
4-Chloroaniline	ND	0.26	50	10/23/2020 13:34
4-Chloro-3-methylphenol	ND	51	50	10/23/2020 13:34
2-Chloronaphthalene	ND	51	50	10/23/2020 13:34
2-Chlorophenol	ND	2.6	50	10/23/2020 13:34
4-Chlorophenyl Phenyl Ether	ND	51	50	10/23/2020 13:34
Chrysene	ND	0.51	50	10/23/2020 13:34
Dibenzo (a,h) anthracene	ND	0.51	50	10/23/2020 13:34
Dibenzofuran	ND	51	50	10/23/2020 13:34
Di-n-butyl Phthalate	ND	2.6	50	10/23/2020 13:34
1,2-Dichlorobenzene	ND	51	50	10/23/2020 13:34
1,3-Dichlorobenzene	ND	51	50	10/23/2020 13:34
1,4-Dichlorobenzene	ND	51	50	10/23/2020 13:34
3,3-Dichlorobenzidine	ND	1.0	50	10/23/2020 13:34
2,4-Dichlorophenol	ND	0.51	50	10/23/2020 13:34
Diethyl Phthalate	ND	2.6	50	10/23/2020 13:34
2,4-Dimethylphenol	ND	51	50	10/23/2020 13:34
Dimethyl Phthalate	ND	0.51	50	10/23/2020 13:34

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001C	Water	10/14/2020 08:43	GC21 10232018.D	207352

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	260	50	10/23/2020 13:34
2,4-Dinitrophenol	ND	100	50	10/23/2020 13:34
2,4-Dinitrotoluene	ND	2.6	50	10/23/2020 13:34
2,6-Dichlorophenol	ND	2.6	50	10/23/2020 13:34
2,6-Dinitrotoluene	ND	2.6	50	10/23/2020 13:34
Di-n-octyl Phthalate	ND	2.6	50	10/23/2020 13:34
1,2-Diphenylhydrazine	ND	51	50	10/23/2020 13:34
Fluoranthene	ND	0.51	50	10/23/2020 13:34
Fluorene	ND	0.51	50	10/23/2020 13:34
Hexachlorobenzene	ND	0.26	50	10/23/2020 13:34
Hexachlorobutadiene	ND	0.51	50	10/23/2020 13:34
Hexachlorocyclopentadiene	ND	260	50	10/23/2020 13:34
Hexachloroethane	ND	2.6	50	10/23/2020 13:34
Indeno (1,2,3-cd) pyrene	ND	1.0	50	10/23/2020 13:34
Isophorone	ND	51	50	10/23/2020 13:34
2-Methylnaphthalene	ND	0.51	50	10/23/2020 13:34
2-Methylphenol (o-Cresol)	ND	51	50	10/23/2020 13:34
3 & 4-Methylphenol (m,p-Cresol)	ND	51	50	10/23/2020 13:34
Naphthalene	ND	2.6	50	10/23/2020 13:34
2-Nitroaniline	ND	260	50	10/23/2020 13:34
3-Nitroaniline	ND	260	50	10/23/2020 13:34
4-Nitroaniline	ND	260	50	10/23/2020 13:34
Nitrobenzene	ND	51	50	10/23/2020 13:34
2-Nitrophenol	ND	260	50	10/23/2020 13:34
4-Nitrophenol	ND	260	50	10/23/2020 13:34
N-Nitrosodiphenylamine	ND	51	50	10/23/2020 13:34
N-Nitrosodi-n-propylamine	ND	51	50	10/23/2020 13:34
Pentachlorophenol	**430**	13	50	10/23/2020 13:34
Phenanthrene	ND	1.0	50	10/23/2020 13:34
Phenol	ND	10	50	10/23/2020 13:34
Pyrene	ND	0.51	50	10/23/2020 13:34
Pyridine	ND	51	50	10/23/2020 13:34
1,2,4-Trichlorobenzene	ND	51	50	10/23/2020 13:34
2,4,5-Trichlorophenol	ND	0.51	50	10/23/2020 13:34
2,4,6-Trichlorophenol	ND	0.51	50	10/23/2020 13:34
1-Methylnaphthalene	ND	0.26	50	10/23/2020 13:34

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	**2010730-001C**	**Water**	**10/14/2020 08:43**	**GC21 10232018.D**	**207352**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Qualifiers**	**Limits**		
2-Fluorophenol	10	S	20-130		10/23/2020 13:34
Phenol-d5	7	S	20-130		10/23/2020 13:34
Nitrobenzene-d5	146	S	30-130		10/23/2020 13:34
2-Fluorobiphenyl	68		40-130		10/23/2020 13:34
2,4,6-Tribromophenol	10	S	40-130		10/23/2020 13:34
4-Terphenyl-d14	80		40-130		10/23/2020 13:34

Analyst(s): AK Analytical Comments: c1,c2

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002C	Water	10/14/2020 12:35	GC17 10232034.D	207352

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	10	2,000	10/23/2020 21:52
Acenaphthylene	ND	10	2,000	10/23/2020 21:52
Acetochlor	ND	2000	2,000	10/23/2020 21:52
Anthracene	ND	20	2,000	10/23/2020 21:52
Benzidine	ND	10,000	2,000	10/23/2020 21:52
Benzo (a) anthracene	ND	100	2,000	10/23/2020 21:52
Benzo (a) pyrene	ND	10	2,000	10/23/2020 21:52
Benzo (b) fluoranthene	ND	41	2,000	10/23/2020 21:52
Benzo (g,h,i) perylene	ND	41	2,000	10/23/2020 21:52
Benzo (k) fluoranthene	ND	20	2,000	10/23/2020 21:52
Benzoic Acid	ND	10,000	2,000	10/23/2020 21:52
Benzyl Alcohol	ND	10,000	2,000	10/23/2020 21:52
1,1-Biphenyl	ND	100	2,000	10/23/2020 21:52
Bis (2-chloroethoxy) Methane	ND	2000	2,000	10/23/2020 21:52
Bis (2-chloroethyl) Ether	ND	10	2,000	10/23/2020 21:52
Bis (2-chloroisopropyl) Ether	ND	100	2,000	10/23/2020 21:52
Bis (2-ethylhexyl) Adipate	ND	2000	2,000	10/23/2020 21:52
Bis (2-ethylhexyl) Phthalate	ND	410	2,000	10/23/2020 21:52
4-Bromophenyl Phenyl Ether	ND	2000	2,000	10/23/2020 21:52
Butylbenzyl Phthalate	ND	100	2,000	10/23/2020 21:52
4-Chloroaniline	ND	10	2,000	10/23/2020 21:52
4-Chloro-3-methylphenol	ND	2000	2,000	10/23/2020 21:52
2-Chloronaphthalene	ND	2000	2,000	10/23/2020 21:52
2-Chlorophenol	ND	100	2,000	10/23/2020 21:52
4-Chlorophenyl Phenyl Ether	ND	2000	2,000	10/23/2020 21:52
Chrysene	ND	20	2,000	10/23/2020 21:52
Dibenzo (a,h) anthracene	ND	20	2,000	10/23/2020 21:52
Dibenzofuran	ND	2000	2,000	10/23/2020 21:52
Di-n-butyl Phthalate	ND	100	2,000	10/23/2020 21:52
1,2-Dichlorobenzene	ND	2000	2,000	10/23/2020 21:52
1,3-Dichlorobenzene	ND	2000	2,000	10/23/2020 21:52
1,4-Dichlorobenzene	ND	2000	2,000	10/23/2020 21:52
3,3-Dichlorobenzidine	ND	41	2,000	10/23/2020 21:52
2,4-Dichlorophenol	ND	20	2,000	10/23/2020 21:52
Diethyl Phthalate	ND	100	2,000	10/23/2020 21:52
2,4-Dimethylphenol	ND	2000	2,000	10/23/2020 21:52
Dimethyl Phthalate	ND	20	2,000	10/23/2020 21:52

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002C	Water	10/14/2020 12:35	GC17 10232034.D	207352

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	10,000	2,000	10/23/2020 21:52
2,4-Dinitrophenol	ND	4100	2,000	10/23/2020 21:52
2,4-Dinitrotoluene	ND	100	2,000	10/23/2020 21:52
2,6-Dichlorophenol	ND	100	2,000	10/23/2020 21:52
2,6-Dinitrotoluene	ND	100	2,000	10/23/2020 21:52
Di-n-octyl Phthalate	ND	100	2,000	10/23/2020 21:52
1,2-Diphenylhydrazine	ND	2000	2,000	10/23/2020 21:52
Fluoranthene	ND	20	2,000	10/23/2020 21:52
Fluorene	ND	20	2,000	10/23/2020 21:52
Hexachlorobenzene	ND	10	2,000	10/23/2020 21:52
Hexachlorobutadiene	ND	20	2,000	10/23/2020 21:52
Hexachlorocyclopentadiene	ND	10,000	2,000	10/23/2020 21:52
Hexachloroethane	ND	100	2,000	10/23/2020 21:52
Indeno (1,2,3-cd) pyrene	ND	41	2,000	10/23/2020 21:52
Isophorone	ND	2000	2,000	10/23/2020 21:52
2-Methylnaphthalene	ND	20	2,000	10/23/2020 21:52
2-Methylphenol (o-Cresol)	ND	2000	2,000	10/23/2020 21:52
3 & 4-Methylphenol (m,p-Cresol)	ND	2000	2,000	10/23/2020 21:52
Naphthalene	ND	100	2,000	10/23/2020 21:52
2-Nitroaniline	ND	10,000	2,000	10/23/2020 21:52
3-Nitroaniline	ND	10,000	2,000	10/23/2020 21:52
4-Nitroaniline	ND	10,000	2,000	10/23/2020 21:52
Nitrobenzene	ND	2000	2,000	10/23/2020 21:52
2-Nitrophenol	ND	10,000	2,000	10/23/2020 21:52
4-Nitrophenol	ND	10,000	2,000	10/23/2020 21:52
N-Nitrosodiphenylamine	ND	2000	2,000	10/23/2020 21:52
N-Nitrosodi-n-propylamine	ND	2000	2,000	10/23/2020 21:52
Pentachlorophenol	**3600**	510	2,000	10/23/2020 21:52
Phenanthrene	ND	41	2,000	10/23/2020 21:52
Phenol	ND	410	2,000	10/23/2020 21:52
Pyrene	ND	20	2,000	10/23/2020 21:52
Pyridine	ND	2000	2,000	10/23/2020 21:52
1,2,4-Trichlorobenzene	ND	2000	2,000	10/23/2020 21:52
2,4,5-Trichlorophenol	ND	20	2,000	10/23/2020 21:52
2,4,6-Trichlorophenol	ND	20	2,000	10/23/2020 21:52
1-Methylnaphthalene	ND	10	2,000	10/23/2020 21:52

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002C	Water	10/14/2020 12:35	GC17 10232034.D	207352

Analytes	Result		RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Qualifiers**	**Limits**		
2-Fluorophenol	152	S	20-130		10/23/2020 21:52
Phenol-d5	56		20-130		10/23/2020 21:52
Nitrobenzene-d5	132	S	30-130		10/23/2020 21:52
2-Fluorobiphenyl	180	S	40-130		10/23/2020 21:52
2,4,6-Tribromophenol	120		40-130		10/23/2020 21:52
4-Terphenyl-d14	244	S	40-130		10/23/2020 21:52

Analyst(s): AK Analytical Comments: c2,c1

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003C	Water	10/14/2020 10:33	GC21 10232013.D	207352

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0051	1	10/23/2020 11:19
Acenaphthylene	ND	0.0051	1	10/23/2020 11:19
Acetochlor	ND	1.0	1	10/23/2020 11:19
Anthracene	ND	0.010	1	10/23/2020 11:19
Benzidine	ND	5.1	1	10/23/2020 11:19
Benzo (a) anthracene	ND	0.051	1	10/23/2020 11:19
Benzo (a) pyrene	ND	0.0051	1	10/23/2020 11:19
Benzo (b) fluoranthene	ND	0.021	1	10/23/2020 11:19
Benzo (g,h,i) perylene	ND	0.021	1	10/23/2020 11:19
Benzo (k) fluoranthene	ND	0.010	1	10/23/2020 11:19
Benzoic Acid	ND	5.1	1	10/23/2020 11:19
Benzyl Alcohol	ND	5.1	1	10/23/2020 11:19
1,1-Biphenyl	ND	0.051	1	10/23/2020 11:19
Bis (2-chloroethoxy) Methane	ND	1.0	1	10/23/2020 11:19
Bis (2-chloroethyl) Ether	ND	0.0051	1	10/23/2020 11:19
Bis (2-chloroisopropyl) Ether	ND	0.051	1	10/23/2020 11:19
Bis (2-ethylhexyl) Adipate	ND	1.0	1	10/23/2020 11:19
Bis (2-ethylhexyl) Phthalate	ND	0.21	1	10/23/2020 11:19
4-Bromophenyl Phenyl Ether	ND	1.0	1	10/23/2020 11:19
Butylbenzyl Phthalate	**0.059**	0.051	1	10/23/2020 11:19
4-Chloroaniline	ND	0.0051	1	10/23/2020 11:19
4-Chloro-3-methylphenol	ND	1.0	1	10/23/2020 11:19
2-Chloronaphthalene	ND	1.0	1	10/23/2020 11:19
2-Chlorophenol	ND	0.051	1	10/23/2020 11:19
4-Chlorophenyl Phenyl Ether	ND	1.0	1	10/23/2020 11:19
Chrysene	ND	0.010	1	10/23/2020 11:19
Dibenzo (a,h) anthracene	ND	0.010	1	10/23/2020 11:19
Dibenzofuran	ND	1.0	1	10/23/2020 11:19
Di-n-butyl Phthalate	**0.14**	0.051	1	10/23/2020 11:19
1,2-Dichlorobenzene	ND	1.0	1	10/23/2020 11:19
1,3-Dichlorobenzene	ND	1.0	1	10/23/2020 11:19
1,4-Dichlorobenzene	ND	1.0	1	10/23/2020 11:19
3,3-Dichlorobenzidine	ND	0.021	1	10/23/2020 11:19
2,4-Dichlorophenol	ND	0.010	1	10/23/2020 11:19
Diethyl Phthalate	**0.055**	0.051	1	10/23/2020 11:19
2,4-Dimethylphenol	ND	1.0	1	10/23/2020 11:19
Dimethyl Phthalate	ND	0.010	1	10/23/2020 11:19

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003C	Water	10/14/2020 10:33	GC21 10232013.D	207352

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	5.1	1	10/23/2020 11:19
2,4-Dinitrophenol	ND	2.1	1	10/23/2020 11:19
2,4-Dinitrotoluene	ND	0.051	1	10/23/2020 11:19
2,6-Dichlorophenol	ND	0.051	1	10/23/2020 11:19
2,6-Dinitrotoluene	ND	0.051	1	10/23/2020 11:19
Di-n-octyl Phthalate	ND	0.051	1	10/23/2020 11:19
1,2-Diphenylhydrazine	ND	1.0	1	10/23/2020 11:19
Fluoranthene	ND	0.010	1	10/23/2020 11:19
Fluorene	ND	0.010	1	10/23/2020 11:19
Hexachlorobenzene	ND	0.0051	1	10/23/2020 11:19
Hexachlorobutadiene	ND	0.010	1	10/23/2020 11:19
Hexachlorocyclopentadiene	ND	5.1	1	10/23/2020 11:19
Hexachloroethane	ND	0.051	1	10/23/2020 11:19
Indeno (1,2,3-cd) pyrene	ND	0.021	1	10/23/2020 11:19
Isophorone	ND	1.0	1	10/23/2020 11:19
2-Methylnaphthalene	ND	0.010	1	10/23/2020 11:19
2-Methylphenol (o-Cresol)	ND	1.0	1	10/23/2020 11:19
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	1	10/23/2020 11:19
Naphthalene	ND	0.051	1	10/23/2020 11:19
2-Nitroaniline	ND	5.1	1	10/23/2020 11:19
3-Nitroaniline	ND	5.1	1	10/23/2020 11:19
4-Nitroaniline	ND	5.1	1	10/23/2020 11:19
Nitrobenzene	ND	1.0	1	10/23/2020 11:19
2-Nitrophenol	ND	5.1	1	10/23/2020 11:19
4-Nitrophenol	ND	5.1	1	10/23/2020 11:19
N-Nitrosodiphenylamine	ND	1.0	1	10/23/2020 11:19
N-Nitrosodi-n-propylamine	ND	1.0	1	10/23/2020 11:19
Pentachlorophenol	**0.37**	0.26	1	10/23/2020 11:19
Phenanthrene	ND	0.021	1	10/23/2020 11:19
Phenol	ND	0.21	1	10/23/2020 11:19
Pyrene	ND	0.010	1	10/23/2020 11:19
Pyridine	ND	1.0	1	10/23/2020 11:19
1,2,4-Trichlorobenzene	ND	1.0	1	10/23/2020 11:19
2,4,5-Trichlorophenol	ND	0.010	1	10/23/2020 11:19
2,4,6-Trichlorophenol	ND	0.010	1	10/23/2020 11:19
1-Methylnaphthalene	ND	0.0051	1	10/23/2020 11:19

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	**2010730-003C**	**Water**	**10/14/2020 10:33**	**GC21 10232013.D**	**207352**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	35	20-130		10/23/2020 11:19
Phenol-d5	36	20-130		10/23/2020 11:19
Nitrobenzene-d5	68	30-130		10/23/2020 11:19
2-Fluorobiphenyl	63	40-130		10/23/2020 11:19
2,4,6-Tribromophenol	79	40-130		10/23/2020 11:19
4-Terphenyl-d14	96	40-130		10/23/2020 11:19

Analyst(s): AK

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004C	Water	10/14/2020 14:05	GC21 10232014.D	207352

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0052	1	10/23/2020 11:46
Acenaphthylene	ND	0.0052	1	10/23/2020 11:46
Acetochlor	ND	1.0	1	10/23/2020 11:46
Anthracene	ND	0.010	1	10/23/2020 11:46
Benzidine	ND	5.2	1	10/23/2020 11:46
Benzo (a) anthracene	ND	0.052	1	10/23/2020 11:46
Benzo (a) pyrene	ND	0.0052	1	10/23/2020 11:46
Benzo (b) fluoranthene	ND	0.021	1	10/23/2020 11:46
Benzo (g,h,i) perylene	ND	0.021	1	10/23/2020 11:46
Benzo (k) fluoranthene	ND	0.010	1	10/23/2020 11:46
Benzoic Acid	ND	5.2	1	10/23/2020 11:46
Benzyl Alcohol	ND	5.2	1	10/23/2020 11:46
1,1-Biphenyl	ND	0.052	1	10/23/2020 11:46
Bis (2-chloroethoxy) Methane	ND	1.0	1	10/23/2020 11:46
Bis (2-chloroethyl) Ether	ND	0.0052	1	10/23/2020 11:46
Bis (2-chloroisopropyl) Ether	ND	0.052	1	10/23/2020 11:46
Bis (2-ethylhexyl) Adipate	ND	1.0	1	10/23/2020 11:46
Bis (2-ethylhexyl) Phthalate	ND	0.21	1	10/23/2020 11:46
4-Bromophenyl Phenyl Ether	ND	1.0	1	10/23/2020 11:46
Butylbenzyl Phthalate	ND	0.052	1	10/23/2020 11:46
4-Chloroaniline	ND	0.0052	1	10/23/2020 11:46
4-Chloro-3-methylphenol	ND	1.0	1	10/23/2020 11:46
2-Chloronaphthalene	ND	1.0	1	10/23/2020 11:46
2-Chlorophenol	ND	0.052	1	10/23/2020 11:46
4-Chlorophenyl Phenyl Ether	ND	1.0	1	10/23/2020 11:46
Chrysene	ND	0.010	1	10/23/2020 11:46
Dibenzo (a,h) anthracene	ND	0.010	1	10/23/2020 11:46
Dibenzofuran	ND	1.0	1	10/23/2020 11:46
Di-n-butyl Phthalate	ND	0.052	1	10/23/2020 11:46
1,2-Dichlorobenzene	ND	1.0	1	10/23/2020 11:46
1,3-Dichlorobenzene	ND	1.0	1	10/23/2020 11:46
1,4-Dichlorobenzene	ND	1.0	1	10/23/2020 11:46
3,3-Dichlorobenzidine	ND	0.021	1	10/23/2020 11:46
2,4-Dichlorophenol	ND	0.010	1	10/23/2020 11:46
Diethyl Phthalate	ND	0.052	1	10/23/2020 11:46
2,4-Dimethylphenol	ND	1.0	1	10/23/2020 11:46
Dimethyl Phthalate	ND	0.010	1	10/23/2020 11:46

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004C	Water	10/14/2020 14:05	GC21 10232014.D	207352

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	5.2	1	10/23/2020 11:46
2,4-Dinitrophenol	ND	2.1	1	10/23/2020 11:46
2,4-Dinitrotoluene	ND	0.052	1	10/23/2020 11:46
2,6-Dichlorophenol	ND	0.052	1	10/23/2020 11:46
2,6-Dinitrotoluene	ND	0.052	1	10/23/2020 11:46
Di-n-octyl Phthalate	ND	0.052	1	10/23/2020 11:46
1,2-Diphenylhydrazine	ND	1.0	1	10/23/2020 11:46
Fluoranthene	ND	0.010	1	10/23/2020 11:46
Fluorene	ND	0.010	1	10/23/2020 11:46
Hexachlorobenzene	ND	0.0052	1	10/23/2020 11:46
Hexachlorobutadiene	ND	0.010	1	10/23/2020 11:46
Hexachlorocyclopentadiene	ND	5.2	1	10/23/2020 11:46
Hexachloroethane	ND	0.052	1	10/23/2020 11:46
Indeno (1,2,3-cd) pyrene	ND	0.021	1	10/23/2020 11:46
Isophorone	ND	1.0	1	10/23/2020 11:46
2-Methylnaphthalene	ND	0.010	1	10/23/2020 11:46
2-Methylphenol (o-Cresol)	ND	1.0	1	10/23/2020 11:46
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	1	10/23/2020 11:46
Naphthalene	ND	0.052	1	10/23/2020 11:46
2-Nitroaniline	ND	5.2	1	10/23/2020 11:46
3-Nitroaniline	ND	5.2	1	10/23/2020 11:46
4-Nitroaniline	ND	5.2	1	10/23/2020 11:46
Nitrobenzene	ND	1.0	1	10/23/2020 11:46
2-Nitrophenol	ND	5.2	1	10/23/2020 11:46
4-Nitrophenol	ND	5.2	1	10/23/2020 11:46
N-Nitrosodiphenylamine	ND	1.0	1	10/23/2020 11:46
N-Nitrosodi-n-propylamine	ND	1.0	1	10/23/2020 11:46
Pentachlorophenol	ND	0.26	1	10/23/2020 11:46
Phenanthrene	ND	0.021	1	10/23/2020 11:46
Phenol	ND	0.21	1	10/23/2020 11:46
Pyrene	ND	0.010	1	10/23/2020 11:46
Pyridine	ND	1.0	1	10/23/2020 11:46
1,2,4-Trichlorobenzene	ND	1.0	1	10/23/2020 11:46
2,4,5-Trichlorophenol	ND	0.010	1	10/23/2020 11:46
2,4,6-Trichlorophenol	ND	0.010	1	10/23/2020 11:46
1-Methylnaphthalene	ND	0.0052	1	10/23/2020 11:46

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	E625
Date Prepared:	10/14/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	**2010730-004C**	**Water**	**10/14/2020 14:05**	**GC21 10232014.D**	**207352**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	33	20-130		10/23/2020 11:46
Phenol-d5	26	20-130		10/23/2020 11:46
Nitrobenzene-d5	72	30-130		10/23/2020 11:46
2-Fluorobiphenyl	62	40-130		10/23/2020 11:46
2,4,6-Tribromophenol	72	40-130		10/23/2020 11:46
4-Terphenyl-d14	76	40-130		10/23/2020 11:46

Analyst(s): AK

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020-10/21/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	04.00163392; Peerless	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	**2010730-001A**	**Water**	**10/14/2020 08:43**	**GC3 10172023.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/17/2020 22:02
MTBE	---	1.0	1	10/17/2020 22:02
Benzene	---	0.50	1	10/17/2020 22:02
Toluene	---	0.50	1	10/17/2020 22:02
Ethylbenzene	---	0.50	1	10/17/2020 22:02
m,p-Xylene	---	1.0	1	10/17/2020 22:02
o-Xylene	---	0.50	1	10/17/2020 22:02
Xylenes	---	0.50	1	10/17/2020 22:02

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	530	S	76-115	10/17/2020 22:02

Analyst(s): IA Analytical Comments: c4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	**2010730-002A**	**Water**	**10/14/2020 12:35**	**GC3 10212008.D**	**207630**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	**130**	50	1	10/21/2020 15:57
MTBE	---	1.0	1	10/21/2020 15:57
Benzene	---	0.50	1	10/21/2020 15:57
Toluene	---	0.50	1	10/21/2020 15:57
Ethylbenzene	---	0.50	1	10/21/2020 15:57
m,p-Xylene	---	1.0	1	10/21/2020 15:57
o-Xylene	---	0.50	1	10/21/2020 15:57
Xylenes	---	0.50	1	10/21/2020 15:57

Surrogates	REC (%)	Limits	
aaa-TFT	94	76-115	10/21/2020 15:57

Analyst(s): IA Analytical Comments: d7

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020-10/21/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	04.00163392; Peerless	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	**2010730-003A**	**Water**	**10/14/2020 10:33**	**GC3 10172026.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/17/2020 23:35
MTBE	---	1.0	1	10/17/2020 23:35
Benzene	---	0.50	1	10/17/2020 23:35
Toluene	---	0.50	1	10/17/2020 23:35
Ethylbenzene	---	0.50	1	10/17/2020 23:35
m,p-Xylene	---	1.0	1	10/17/2020 23:35
o-Xylene	---	0.50	1	10/17/2020 23:35
Xylenes	---	0.50	1	10/17/2020 23:35

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	249	S	76-115	10/17/2020 23:35

Analyst(s): IA Analytical Comments: c4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	**2010730-004A**	**Water**	**10/14/2020 14:05**	**GC3 10172024.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/17/2020 22:33
MTBE	---	1.0	1	10/17/2020 22:33
Benzene	---	0.50	1	10/17/2020 22:33
Toluene	---	0.50	1	10/17/2020 22:33
Ethylbenzene	---	0.50	1	10/17/2020 22:33
m,p-Xylene	---	1.0	1	10/17/2020 22:33
o-Xylene	---	0.50	1	10/17/2020 22:33
Xylenes	---	0.50	1	10/17/2020 22:33

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	182	S	76-115	10/17/2020 22:33

Analyst(s): IA Analytical Comments: c4

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C/3630C
Date Prepared:	10/14/2020-10/19/2020	**Analytical Method:**	SW8015B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-1	2010730-001A	Water	10/14/2020 08:43	GC39A 10192010.D	207636

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**200**	50	1	10/19/2020 18:48
TPH-Motor Oil (C18-C36)	ND	250	1	10/19/2020 18:48

Surrogates	REC (%)	Limits	
C9	80	70-130	10/19/2020 18:48

Analyst(s): JIS Analytical Comments: e2/e6

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-2	2010730-002A	Water	10/14/2020 12:35	GC11A 10162028.D	207320

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1700**	50	1	10/17/2020 06:36
TPH-Motor Oil (C18-C36)	**530**	250	1	10/17/2020 06:36

Surrogates	REC (%)	Limits	
C9	104	70-130	10/17/2020 06:36

Analyst(s): JIS Analytical Comments: e1,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-4	2010730-003A	Water	10/14/2020 10:33	GC39A 10192014.D	207636

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/19/2020 20:07
TPH-Motor Oil (C18-C36)	ND	250	1	10/19/2020 20:07

Surrogates	REC (%)	Limits	
C9	93	70-130	10/19/2020 20:07

Analyst(s): JIS

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Received:	10/14/2020 15:55	**Extraction Method:**	SW3510C/3630C
Date Prepared:	10/14/2020-10/19/2020	**Analytical Method:**	SW8015B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
M-5	2010730-004A	Water	10/14/2020 14:05	GC39A 10192018.D	207636

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/19/2020 21:25
TPH-Motor Oil (C18-C36)	ND	250	1	10/19/2020 21:25

Surrogates	REC (%)	Limits	
C9	91	70-130	10/19/2020 21:25

Analyst(s): JIS

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207408
Date Analyzed:	10/15/2020	**Extraction Method:**	SW3510C
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207408

QC Summary Report for SW8081A

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00160	0.00500	-	-	-
a-BHC	ND	0.00250	0.0100	-	-	-
b-BHC	ND	0.00120	0.00500	-	-	-
d-BHC	ND	0.00120	0.00500	-	-	-
g-BHC	ND	0.00190	0.0200	-	-	-
Chlordane (Technical)	ND	0.0260	0.100	-	-	-
a-Chlordane	ND	0.00190	0.0500	-	-	-
g-Chlordane	ND	0.00220	0.0500	-	-	-
p,p-DDD	ND	0.00230	0.0100	-	-	-
p,p-DDE	ND	0.00250	0.0100	-	-	-
p,p-DDT	ND	0.00430	0.0100	-	-	-
Dieldrin	ND	0.00290	0.0100	-	-	-
Endosulfan I	ND	0.00220	0.0200	-	-	-
Endosulfan II	ND	0.00490	0.0200	-	-	-
Endosulfan sulfate	ND	0.00260	0.0500	-	-	-
Endrin	ND	0.00340	0.0100	-	-	-
Endrin aldehyde	ND	0.00360	0.0500	-	-	-
Endrin ketone	ND	0.00390	0.0500	-	-	-
Heptachlor	ND	0.00280	0.0100	-	-	-
Heptachlor epoxide	ND	0.00300	0.0100	-	-	-
Hexachlorobenzene	ND	0.00660	0.500	-	-	-
Hexachlorocyclopentadiene	ND	0.00520	1.00	-	-	-
Methoxychlor	ND	0.00480	0.100	-	-	-
Toxaphene	ND	0.120	0.500	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	1.30			1.25	104	61-139

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207408
Date Analyzed:	10/15/2020	**Extraction Method:**	SW3510C
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207408

QC Summary Report for SW8081A

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	1.54	1.54	1.25	123	123	69-156	0.289	20
a-BHC	1.54	1.54	1.25	124	123	90-160	0.0944	20
b-BHC	1.34	1.35	1.25	108	108	56-143	0.600	20
d-BHC	1.47	1.48	1.25	118	118	76-151	0.577	20
g-BHC	1.52	1.53	1.25	121	122	93-150	0.645	20
a-Chlordane	1.49	1.44	1.25	119	115	72-148	3.28	20
g-Chlordane	1.49	1.43	1.25	120	114	77-151	4.49	20
p,p-DDD	1.72	1.74	1.25	137	139	76-154	1.22	20
p,p-DDE	1.60	1.61	1.25	128	129	74-157	0.952	20
p,p-DDT	1.35	1.28	1.25	108	102	78-149	5.48	20
Dieldrin	1.66	1.67	1.25	133	134	89-171	0.367	20
Endosulfan I	1.45	1.46	1.25	116	117	89-147	0.467	20
Endosulfan II	1.42	1.43	1.25	113	115	70-143	1.10	20
Endosulfan sulfate	1.41	1.44	1.25	113	115	75-139	2.62	20
Endrin	1.44	1.42	1.25	115	113	84-162	1.51	20
Endrin aldehyde	1.25	1.25	1.25	100	100	25-118	0.0355	20
Endrin ketone	1.40	1.44	1.25	112	116	73-138	2.82	20
Heptachlor	1.50	1.48	1.25	120	118	86-159	1.55	20
Heptachlor epoxide	1.40	1.41	1.25	112	113	72-144	0.348	20
Hexachlorobenzene	1.24	1.24	1.25	99	99	63-147	0.240	20
Hexachlorocyclopentadiene	0.961	0.943	1.25	77	75	27-155	1.96	20
Methoxychlor	1.18	1.21	1.25	94	97	76-155	2.84	20
Surrogate Recovery								
Decachlorobiphenyl	1.34	1.30	1.25	107	104	61-139	2.60	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0610	0.500	-	-	-
Benzene	ND	0.0360	0.500	-	-	-
Bromobenzene	ND	0.0970	0.500	-	-	-
Bromochloromethane	ND	0.0720	0.500	-	-	-
Bromodichloromethane	ND	0.0270	0.500	-	-	-
Bromoform	ND	0.210	0.500	-	-	-
Bromomethane	ND	0.270	0.500	-	-	-
2-Butanone (MEK)	ND	2.10	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	2.20	5.00	-	-	-
n-Butyl benzene	ND	0.0830	0.500	-	-	-
sec-Butyl benzene	ND	0.0750	0.500	-	-	-
tert-Butyl benzene	ND	0.0920	0.500	-	-	-
Carbon Disulfide	ND	0.120	0.500	-	-	-
Carbon Tetrachloride	ND	0.0470	0.500	-	-	-
Chlorobenzene	ND	0.0870	0.500	-	-	-
Chloroethane	ND	0.160	0.500	-	-	-
Chloroform	ND	0.0850	0.500	-	-	-
Chloromethane	ND	0.0960	0.500	-	-	-
2-Chlorotoluene	ND	0.0890	0.500	-	-	-
4-Chlorotoluene	ND	0.0890	0.500	-	-	-
Dibromochloromethane	ND	0.0830	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.160	1.00	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0750	0.500	-	-	-
Dibromomethane	ND	0.0510	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0700	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0840	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0680	0.500	-	-	-
Dichlorodifluoromethane	ND	0.140	0.500	-	-	-
1,1-Dichloroethane	ND	0.0720	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0180	0.500	-	-	-
1,1-Dichloroethene	ND	0.0150	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0690	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.110	0.500	-	-	-
1,2-Dichloropropane	ND	0.0110	0.500	-	-	-
1,3-Dichloropropane	ND	0.0740	0.500	-	-	-
2,2-Dichloropropane	ND	0.130	0.500	-	-	-
1,1-Dichloropropene	ND	0.0850	0.500	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0660	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0930	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0710	0.500	-	-	-
Ethylbenzene	ND	0.0810	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0630	0.500	-	-	-
Freon 113	ND	0.0930	0.500	-	-	-
Hexachlorobutadiene	ND	0.130	0.500	-	-	-
Hexachloroethane	ND	0.0360	0.500	-	-	-
2-Hexanone	ND	0.360	1.00	-	-	-
Isopropylbenzene	ND	0.0900	0.500	-	-	-
4-Isopropyl toluene	ND	0.0610	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.120	0.500	-	-	-
Methylene chloride	ND	1.00	2.00	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.140	0.500	-	-	-
Naphthalene	ND	0.430	1.00	-	-	-
n-Propyl benzene	ND	0.0900	0.500	-	-	-
Styrene	ND	0.470	2.00	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0820	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0350	0.500	-	-	-
Tetrachloroethene	ND	0.0790	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.300	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.200	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0740	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.150	0.500	-	-	-
Trichloroethene	ND	0.190	0.500	-	-	-
Trichlorofluoromethane	ND	0.0980	0.500	-	-	-
1,2,3-Trichloropropane	ND	0.0250	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0680	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.0820	0.500	-	-	-
Vinyl Chloride	ND	0.0520	0.500	-	-	-
m,p-Xylene	ND	0.150	0.500	-	-	-
o-Xylene	ND	0.0700	0.500	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	23.0			25	92	76-110
Toluene-d8	25.0			25	100	84-111
4-BFB	2.26			2.5	91	64-121

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	39.1	39.8	40	98	99	32-138	1.67	20
tert-Amyl methyl ether (TAME)	3.70	3.85	4	92	96	62-119	4.04	20
Benzene	3.30	3.39	4	82	85	71-126	2.97	20
Bromobenzene	3.59	3.44	4	90	86	66-117	4.26	20
Bromochloromethane	3.86	3.95	4	96	99	67-124	2.38	20
Bromodichloromethane	3.43	3.52	4	86	88	63-119	2.59	20
Bromoform	3.73	3.50	4	93	87	46-117	6.32	20
Bromomethane	3.98	4.39	4	99	110	32-171	9.86	20
2-Butanone (MEK)	14.1	14.7	16	88	92	48-136	3.60	20
t-Butyl alcohol (TBA)	15.6	14.6	16	98	91	40-131	7.01	20
n-Butyl benzene	4.05	3.80	4	101	95	75-125	6.25	20
sec-Butyl benzene	3.60	3.47	4	90	87	72-120	3.79	20
tert-Butyl benzene	3.47	3.26	4	87	81	63-118	6.27	20
Carbon Disulfide	3.32	3.32	4	83	83	64-126	0.0808	20
Carbon Tetrachloride	3.50	3.56	4	88	89	67-122	1.74	20
Chlorobenzene	3.79	3.58	4	95	90	71-117	5.57	20
Chloroethane	3.62	3.90	4	91	97	53-136	7.31	20
Chloroform	3.45	3.52	4	86	88	67-126	2.08	20
Chloromethane	3.14	3.19	4	79	80	42-148	1.53	20
2-Chlorotoluene	3.58	3.39	4	90	85	70-117	5.45	20
4-Chlorotoluene	3.67	3.46	4	92	86	67-117	6.05	20
Dibromochloromethane	3.57	3.42	4	89	85	52-120	4.33	20
1,2-Dibromo-3-chloropropane	1.77	1.63	2	88	81	38-128	8.24	20
1,2-Dibromoethane (EDB)	1.70	1.63	2	85	82	58-117	4.09	20
Dibromomethane	3.66	3.78	4	92	95	66-120	3.22	20
1,2-Dichlorobenzene	3.84	3.55	4	96	89	71-117	7.78	20
1,3-Dichlorobenzene	3.79	3.58	4	95	90	74-116	5.70	20
1,4-Dichlorobenzene	3.72	3.63	4	93	91	71-115	2.46	20
Dichlorodifluoromethane	3.08	3.13	4	77	78	29-145	1.52	20
1,1-Dichloroethane	3.50	3.58	4	87	90	68-128	2.35	20
1,2-Dichloroethane (1,2-DCA)	3.65	3.76	4	91	94	61-123	2.98	20
1,1-Dichloroethene	3.54	3.56	4	89	89	65-126	0.507	20
cis-1,2-Dichloroethene	3.37	3.46	4	84	86	71-122	2.59	20
trans-1,2-Dichloroethene	3.35	3.38	4	84	85	70-126	0.932	20
1,2-Dichloropropane	3.48	3.59	4	87	90	67-124	3.12	20
1,3-Dichloropropane	3.08	2.94	4	77	74	65-120	4.66	20
2,2-Dichloropropane	3.99	3.98	4	100	100	71-127	0.0665	20
1,1-Dichloropropene	3.59	3.66	4	90	91	69-122	1.93	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	3.80	3.62	4	95	90	63-119	4.95	20
trans-1,3-Dichloropropene	4.09	3.89	4	102	97	63-116	5.07	20
Diisopropyl ether (DIPE)	3.39	3.50	4	85	87	64-128	3.19	20
Ethylbenzene	3.60	3.41	4	90	85	69-120	5.42	20
Ethyl tert-butyl ether (ETBE)	3.44	3.61	4	86	90	63-120	4.70	20
Freon 113	3.41	3.54	4	85	89	67-126	3.90	20
Hexachlorobutadiene	4.29	4.03	4	107	101	50-140	6.36	20
Hexachloroethane	2.97	2.82	4	74	71	52-122	5.14	20
2-Hexanone	3.22	2.81	4	80	70	39-121	13.4	20
Isopropylbenzene	3.49	3.29	4	87	82	69-120	6.03	20
4-Isopropyl toluene	3.72	3.53	4	93	88	72-122	5.29	20
Methyl-t-butyl ether (MTBE)	3.55	3.68	4	89	92	60-121	3.55	20
Methylene chloride	3.08	3.19	4	77	80	40-148	3.22	20
4-Methyl-2-pentanone (MIBK)	3.62	3.34	4	91	84	48-115	7.92	20
Naphthalene	4.56	4.08	4	114	102	62-124	11.0	20
n-Propyl benzene	3.47	3.43	4	87	86	70-118	1.28	20
Styrene	3.62	3.48	4	90	87	57-118	3.82	20
1,1,1,2-Tetrachloroethane	3.80	3.65	4	95	91	63-117	4.05	20
1,1,2,2-Tetrachloroethane	3.60	3.48	4	90	87	60-116	3.35	20
Tetrachloroethene	3.78	3.61	4	94	90	60-131	4.53	20
Toluene	3.45	3.31	4	86	83	67-115	4.13	20
1,2,3-Trichlorobenzene	4.44	4.14	4	111	103	60-128	7.14	20
1,2,4-Trichlorobenzene	4.62	4.39	4	116	110	61-133	5.05	20
1,1,1-Trichloroethane	3.60	3.68	4	90	92	67-124	2.16	20
1,1,2-Trichloroethane	3.66	3.52	4	91	88	62-117	3.91	20
Trichloroethene	3.34	3.43	4	84	86	69-120	2.63	20
Trichlorofluoromethane	3.67	3.69	4	92	92	60-134	0.599	20
1,2,3-Trichloropropane	1.77	1.69	2	89	84	56-120	5.00	20
1,2,4-Trimethylbenzene	3.56	3.45	4	89	86	67-124	3.37	20
1,3,5-Trimethylbenzene	3.52	3.42	4	88	86	69-122	2.82	20
Vinyl Chloride	1.76	1.92	2	88	96	52-145	8.70	20
m,p-Xylene	7.23	6.92	8	90	87	67-119	4.36	20
o-Xylene	3.72	3.54	4	93	88	68-120	4.98	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	21.7	23.2	25	87	93	76-110	6.28	20
Toluene-d8	24.8	24.8	25	99	99	84-111	0.0850	20
4-BFB	2.37	2.33	2.5	95	93	64-121	1.60	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1	35.2	37.6	40	ND	88	94	32-183	6.56	20
tert-Amyl methyl ether (TAME)	1	3.40	4.02	4	ND	85	100	52-152	16.6	20
Benzene	1	3.22	3.81	4	ND	72	86	62-143	16.6	20
Bromobenzene	1	2.94	3.52	4	ND	73	88	52-139	18.1	20
Bromochloromethane	1	3.52	4.18	4	ND	88	104	53-154	17.3	20
Bromodichloromethane	1	2.92	3.42	4	ND	73	86	49-147	15.9	20
Bromoform	1	3.06	3.56	4	ND	77	89	32-153	14.9	20
Bromomethane	1	3.66	4.21	4	ND	92	105	18-181	13.8	20
2-Butanone (MEK)	1	14.7	17.9	16	ND	92	112	46-173	19.9	20
t-Butyl alcohol (TBA)	1	18.3	20.5	16	ND	114	128	25-198	11.4	20
n-Butyl benzene	1	3.22	3.95	4	ND	81	99	53-147	20.2,F1	20
sec-Butyl benzene	1	2.93	3.50	4	ND	71	85	54-138	17.6	20
tert-Butyl benzene	1	2.83	3.39	4	ND	71	85	48-134	18.0	20
Carbon Disulfide	1	2.88	3.50	4	ND	72	88	46-148	19.4	20
Carbon Tetrachloride	1	2.81	3.31	4	ND	70	83	50-143	16.4	20
Chlorobenzene	1	3.10	3.72	4	ND	78	93	56-139	18.1	20
Chloroethane	1	3.34	3.88	4	ND	84	97	31-158	14.7	20
Chloroform	1	2.95	3.48	4	ND	74	87	38-161	16.5	20
Chloromethane	1	2.49	2.73	4	ND	62	68	24-158	9.09	20
2-Chlorotoluene	1	3.08	3.63	4	ND	77	91	53-136	16.3	20
4-Chlorotoluene	1	2.88	3.40	4	ND	72	85	51-136	16.7	20
Dibromochloromethane	1	2.94	3.42	4	ND	73	85	55-135	15.1	20
1,2-Dibromo-3-chloropropane	1	1.55	1.84	2	ND	77	92	26-168	17.4	20
1,2-Dibromoethane (EDB)	1	1.51	1.78	2	ND	76	89	50-146	16.6	20
Dibromomethane	1	3.32	3.90	4	ND	83	97	54-152	16.2	20
1,2-Dichlorobenzene	1	3.13	3.69	4	ND	76	90	55-143	16.3	20
1,3-Dichlorobenzene	1	3.03	3.62	4	ND	76	90	56-139	17.5	20
1,4-Dichlorobenzene	1	3.01	3.48	4	ND	75	87	54-138	14.4	20
Dichlorodifluoromethane	1	2.29	2.64	4	ND	57	66	15-152	14.4	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethane	1	3.01	3.57	4	ND	75	89	52-151	17.0	20
1,2-Dichloroethane (1,2-DCA)	1	3.08	3.58	4	ND	77	90	46-154	15.1	20
1,1-Dichloroethene	1	2.95	3.50	4	ND	74	87	47-149	16.9	20
cis-1,2-Dichloroethene	1	3.06	3.59	4	ND	76	90	41-158	16.0	20
trans-1,2-Dichloroethene	1	3.00	3.63	4	ND	75	91	51-151	18.9	20
1,2-Dichloropropane	1	3.09	3.68	4	ND	77	92	52-150	17.4	20
1,3-Dichloropropane	1	3.39	3.88	4	ND	85	97	53-149	13.3	20
2,2-Dichloropropane	1	3.18	3.75	4	ND	79	94	51-150	16.4	20
1,1-Dichloropropene	1	3.10	3.68	4	ND	78	92	53-142	17.0	20
cis-1,3-Dichloropropene	1	3.06	3.62	4	ND	76	91	49-143	17.0	20
trans-1,3-Dichloropropene	1	3.28	3.88	4	ND	82	97	49-145	16.5	20
Diisopropyl ether (DIPE)	1	2.98	3.54	4	ND	75	89	51-155	17.1	20
Ethylbenzene	1	2.94	3.50	4	ND	71	85	63-130	17.4	20
Ethyl tert-butyl ether (ETBE)	1	3.08	3.65	4	ND	77	91	50-153	17.1	20
Freon 113	1	2.95	3.59	4	ND	74	90	50-146	19.4	20
Hexachlorobutadiene	1	2.83	3.31	4	ND	71	83	30-163	15.7	20
Hexachloroethane	1	2.43	2.85	4	ND	56	67	26-157	16.0	20
2-Hexanone	1	2.67	3.11	4	ND	67	78	21-180	15.2	20
Isopropylbenzene	1	2.89	3.40	4	ND	72	85	50-140	16.2	20
4-Isopropyl toluene	1	2.99	3.62	4	ND	75	91	53-142	19.1	20
Methyl-t-butyl ether (MTBE)	1	3.27	3.88	4	ND	82	97	51-157	17.0	20
Methylene chloride	1	2.77	3.30	4	ND	69	82	23-177	17.3	20
4-Methyl-2-pentanone (MIBK)	1	3.78	4.45	4	ND	85	102	43-155	16.4	20
Naphthalene	1	3.84	5.05	4	ND	96	126	47-166	27.3,F1	20
n-Propyl benzene	1	2.88	3.43	4	ND	72	86	45-146	17.4	20
Styrene	1	3.45	4.02	4	ND	73	87	26-150	15.3	20
1,1,1,2-Tetrachloroethane	1	3.04	3.64	4	ND	76	91	49-141	18.2	20
1,1,2,2-Tetrachloroethane	1	3.19	3.78	4	ND	80	94	44-159	17.0	20
Tetrachloroethene	1	3.00	3.58	4	ND	75	90	22-164	17.6	20
Toluene	1	2.92	3.47	4	ND	73	87	50-135	17.1	20
1,2,3-Trichlorobenzene	1	3.46	4.40	4	ND	87	110	40-165	23.8,F1	20
1,2,4-Trichlorobenzene	1	3.47	4.24	4	ND	87	106	44-162	20.1,F1	20
1,1,1-Trichloroethane	1	2.99	3.54	4	ND	75	88	51-144	16.9	20
1,1,2-Trichloroethane	1	3.25	3.88	4	ND	81	97	50-149	17.7	20
Trichloroethene	1	3.02	3.58	4	ND	75	89	33-159	17.0	20
Trichlorofluoromethane	1	2.99	3.52	4	ND	75	88	47-151	16.2	20
1,2,3-Trichloropropane	1	1.59	1.85	2	ND	79	92	45-158	15.4	20
1,2,4-Trimethylbenzene	1	2.90	3.50	4	ND	73	88	61-132	18.8	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/16/2020	**BatchID:**	207547
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207547 2010730-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1	2.81	3.32	4	ND	70	83	35-159	16.8	20
Vinyl Chloride	1	1.67	1.74	2	ND	84	87	34-161	3.73	20
m,p-Xylene	1	5.96	7.15	8	ND	74	89	63-126	18.2	20
o-Xylene	1	17.2	18.1	4	16.39	21,F1	42,F1	43-153	4.68	20
Surrogate Recovery										
Dibromofluoromethane	1	22.7	22.6	25		91	90	78-112	0.477	20
Toluene-d8	1	24.5	24.8	25		98	99	82-109	1.08	20
4-BFB	1	2.36	2.30	2.5		94	92	63-121	2.43	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.00280	0.00500	-	-	-
Acenaphthylene	ND	0.00170	0.00500	-	-	-
Acetochlor	ND	0.140	1.00	-	-	-
Anthracene	ND	0.00440	0.0100	-	-	-
Benzidine	ND	0.580	5.00	-	-	-
Benzo (a) anthracene	ND	0.0190	0.0500	-	-	-
Benzo (a) pyrene	ND	0.00250	0.00500	-	-	-
Benzo (b) fluoranthene	ND	0.00500	0.0200	-	-	-
Benzo (g,h,i) perylene	ND	0.00830	0.0200	-	-	-
Benzo (k) fluoranthene	ND	0.00520	0.0100	-	-	-
Benzoic Acid	ND	3.00	5.00	-	-	-
Benzyl Alcohol	ND	3.00	5.00	-	-	-
1,1-Biphenyl	ND	0.00990	0.0500	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.180	1.00	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00290	0.00500	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0160	0.0500	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.110	1.00	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0970	0.200	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0850	1.00	-	-	-
Butylbenzyl Phthalate	ND	0.0430	0.0500	-	-	-
4-Chloro-3-methylphenol	ND	0.150	1.00	-	-	-
4-Chloroaniline	ND	0.00210	0.00500	-	-	-
2-Chloronaphthalene	ND	0.0640	1.00	-	-	-
2-Chlorophenol	ND	0.00770	0.0500	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.110	1.00	-	-	-
Chrysene	ND	0.00880	0.0100	-	-	-
Dibenzo (a,h) anthracene	ND	0.00830	0.0100	-	-	-
Dibenzofuran	ND	0.0530	1.00	-	-	-
Di-n-butyl Phthalate	ND	0.0140	0.0500	-	-	-
1,2-Dichlorobenzene	ND	0.480	1.00	-	-	-
1,3-Dichlorobenzene	ND	0.240	1.00	-	-	-
1,4-Dichlorobenzene	ND	0.340	1.00	-	-	-
3,3-Dichlorobenzidine	ND	0.00290	0.0200	-	-	-
2,4-Dichlorophenol	ND	0.00290	0.0100	-	-	-
Diethyl Phthalate	ND	0.0190	0.0500	-	-	-
2,4-Dimethylphenol	ND	0.140	1.00	-	-	-
Dimethyl Phthalate	ND	0.00480	0.0100	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.00	5.00	-	-	-

(Cont.)

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrophenol	ND	0.550	2.00	-	-	-
2,4-Dinitrotoluene	ND	0.0120	0.0500	-	-	-
2,6-Dichlorophenol	ND	0.00930	0.0500	-	-	-
2,6-Dinitrotoluene	ND	0.00480	0.0500	-	-	-
Di-n-octyl Phthalate	ND	0.0170	0.0500	-	-	-
1,2-Diphenylhydrazine	ND	0.130	1.00	-	-	-
Fluoranthene	ND	0.00430	0.0100	-	-	-
Fluorene	ND	0.00450	0.0100	-	-	-
Hexachlorobenzene	ND	0.000730	0.00500	-	-	-
Hexachlorobutadiene	ND	0.000910	0.0100	-	-	-
Hexachlorocyclopentadiene	ND	0.850	5.00	-	-	-
Hexachloroethane	ND	0.00720	0.0500	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00780	0.0200	-	-	-
Isophorone	ND	0.180	1.00	-	-	-
1-Methylnaphthalene	ND	0.00140	0.00500	-	-	-
2-Methylnaphthalene	ND	0.00180	0.0100	-	-	-
2-Methylphenol (o-Cresol)	ND	0.320	1.00	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.420	1.00	-	-	-
Naphthalene	ND	0.00550	0.0500	-	-	-
2-Nitroaniline	ND	0.310	5.00	-	-	-
3-Nitroaniline	ND	0.660	5.00	-	-	-
4-Nitroaniline	ND	1.30	5.00	-	-	-
Nitrobenzene	ND	0.130	1.00	-	-	-
2-Nitrophenol	ND	0.550	5.00	-	-	-
4-Nitrophenol	ND	1.60	5.00	-	-	-
N-Nitrosodimethylamine	ND	0.740	5.00	-	-	-
N-Nitrosodi-n-propylamine	ND	0.320	1.00	-	-	-
N-Nitrosodiphenylamine	ND	0.0900	1.00	-	-	-
Pentachlorophenol	ND	0.0500	0.250	-	-	-
Phenanthrene	ND	0.00740	0.0200	-	-	-
Phenol	ND	0.0200	0.200	-	-	-
Pyrene	ND	0.00420	0.0100	-	-	-
Pyridine	ND	0.160	1.00	-	-	-
1,2,4-Trichlorobenzene	ND	0.0750	1.00	-	-	-
2,4,5-Trichlorophenol	ND	0.00200	0.0100	-	-	-
2,4,6-Trichlorophenol	ND	0.00350	0.0100	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.84			5	97	50-130
Phenol-d5	5.29			5	106	60-130
Nitrobenzene-d5	4.46			5	89	60-130
2-Fluorobiphenyl	3.94			5	79	60-130
2,4,6-Tribromophenol	4.43			5	89	60-130
4-Terphenyl-d14	4.18			5	84	70-130

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.487	0.477	0.50	97	95	70-130	2.08	25
Acenaphthylene	0.697	0.686	0.50	139,F2	137,F2	60-130	1.60	25
Acetochlor	9.90	9.94	10	99	99	70-130	0.355	25
Anthracene	0.497	0.478	0.50	99	96	70-130	3.87	25
Benzidine	47.1	46.9	50	94	94	50-130	0.566	25
Benzo (a) anthracene	0.600	0.602	0.50	120	120	60-130	0.440	25
Benzo (a) pyrene	0.625	0.619	0.50	125	124	70-130	0.998	25
Benzo (b) fluoranthene	0.701	0.680	0.50	140,F2	136,F2	60-130	3.07	25
Benzo (g,h,i) perylene	0.523	0.511	0.50	105	102	70-130	2.32	25
Benzo (k) fluoranthene	0.588	0.568	0.50	118	113	70-130	3.47	25
Benzoic Acid	58.9	61.8	50	118	124	50-130	4.76	25
Benzyl Alcohol	49.6	51.1	50	99	102	70-130	2.82	25
1,1-Biphenyl	0.535	0.521	0.50	107	104	60-130	2.62	25
Bis (2-chloroethoxy) Methane	9.56	9.28	10	96	93	70-130	2.91	25
Bis (2-chloroethyl) Ether	0.548	0.530	0.50	110	106	60-130	3.40	25
Bis (2-chloroisopropyl) Ether	0.475	0.467	0.50	95	93	60-130	1.54	25
Bis (2-ethylhexyl) Adipate	10.5	10.2	10	105	102	60-130	3.00	25
Bis (2-ethylhexyl) Phthalate	0.650	0.632	0.50	130	126	60-130	2.79	25
4-Bromophenyl Phenyl Ether	9.88	9.70	10	99	97	70-130	1.78	25
Butylbenzyl Phthalate	0.656	0.645	0.50	131,F2	129	60-130	1.84	25
4-Chloro-3-methylphenol	10.7	11.4	10	107	114	70-130	6.48	25
4-Chloroaniline	0.557	0.583	0.50	111	117	70-130	4.69	25
2-Chloronaphthalene	9.98	9.70	10	100	97	70-130	2.82	25
2-Chlorophenol	0.551	0.550	0.50	110	110	60-130	0.249	25
4-Chlorophenyl Phenyl Ether	9.62	9.50	10	96	95	70-130	1.28	25
Chrysene	0.576	0.566	0.50	115	113	70-130	1.78	25
Dibenzo (a,h) anthracene	0.546	0.534	0.50	109	107	70-130	2.24	25
Dibenzofuran	9.52	9.37	10	95	94	70-130	1.52	25
Di-n-butyl Phthalate	0.557	0.548	0.50	111	110	70-130	1.76	25
1,2-Dichlorobenzene	8.98	8.79	10	90	88	60-130	2.06	25
1,3-Dichlorobenzene	8.89	8.73	10	89	87	60-130	1.83	25
1,4-Dichlorobenzene	9.04	8.71	10	90	87	60-130	3.66	25
3,3-Dichlorobenzidine	0.502	0.507	0.50	100	101	70-130	0.983	25
2,4-Dichlorophenol	0.539	0.550	0.50	108	110	70-130	2.02	25
Diethyl Phthalate	0.506	0.499	0.50	101	100	70-130	1.38	25
2,4-Dimethylphenol	11.4	11.8	10	114	118	70-130	3.42	25
Dimethyl Phthalate	0.554	0.550	0.50	111	110	70-130	0.686	25
4,6-Dinitro-2-methylphenol	52.0	50.3	50	104	101	70-130	3.22	25

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,4-Dinitrophenol	10.7	10.9	10	107	109	60-130	2.58	25
2,4-Dinitrotoluene	0.569	0.570	0.50	114	114	70-130	0.182	25
2,6-Dichlorophenol	0.508	0.514	0.50	101	103	70-130	1.20	25
2,6-Dinitrotoluene	0.629	0.634	0.50	126	127	70-130	0.715	25
Di-n-octyl Phthalate	0.674	0.653	0.50	135,F2	131,F2	70-130	3.29	25
1,2-Diphenylhydrazine	10.1	9.77	10	101	98	70-130	3.39	25
Fluoranthene	0.595	0.572	0.50	119	115	70-130	3.89	25
Fluorene	0.537	0.531	0.50	107	106	70-130	1.17	25
Hexachlorobenzene	0.475	0.455	0.50	95	91	60-130	4.30	25
Hexachlorobutadiene	0.457	0.447	0.50	91	89	60-130	2.23	25
Hexachlorocyclopentadiene	43.7	41.2	50	87	82	60-130	5.87	25
Hexachloroethane	0.474	0.466	0.50	95	93	60-130	1.61	25
Indeno (1,2,3-cd) pyrene	0.562	0.545	0.50	112	109	70-130	3.13	25
Isophorone	10.0	10.2	10	100	102	70-130	1.64	25
1-Methylnaphthalene	0.574	0.581	0.50	115	116	70-130	1.11	25
2-Methylnaphthalene	0.601	0.632	0.50	120	126	60-130	5.04	25
2-Methylphenol (o-Cresol)	11.0	11.4	10	110	114	70-130	3.54	25
3 & 4-Methylphenol (m,p-Cresol)	10.3	10.6	10	103	105	70-130	2.11	25
Naphthalene	0.422	0.421	0.50	84	84	50-130	0.228	25
2-Nitroaniline	51.4	51.1	50	103	102	70-130	0.534	25
3-Nitroaniline	49.5	51.6	50	99	103	70-130	4.08	25
4-Nitroaniline	50.0	50.0	50	100	100	70-130	0.112	25
Nitrobenzene	11.1	11.3	10	111	113	70-130	2.00	25
2-Nitrophenol	55.0	55.4	50	110	111	70-130	0.767	25
4-Nitrophenol	55.0	55.0	50	110	110	50-130	0.00273	25
N-Nitrosodi-n-propylamine	10.2	10.6	10	102	106	60-130	4.16	25
N-Nitrosodiphenylamine	9.79	9.48	10	98	95	70-130	3.25	25
Pentachlorophenol	2.38	2.31	2.5	95	92	60-130	3.01	25
Phenanthrene	0.490	0.473	0.50	98	95	70-130	3.41	25
Phenol	2.02	2.02	2	101	101	60-130	0.298	25
Pyrene	0.666	0.665	0.50	133,F2	133,F2	70-130	0.263	25
Pyridine	7.47	7.53	10	75	75	50-130	0.723	25
1,2,4-Trichlorobenzene	8.54	8.62	10	85	86	70-130	1.00	25
2,4,5-Trichlorophenol	0.535	0.544	0.50	107	109	70-130	1.53	25
2,4,6-Trichlorophenol	0.483	0.475	0.50	97	95	70-130	1.72	25

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/14/2020	**BatchID:**	207352
Date Analyzed:	10/14/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207352

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	3.75	4.08	5	75	82	50-130	8.32	25
Phenol-d5	4.50	4.92	5	90	98	60-130	8.86	25
Nitrobenzene-d5	4.65	5.03	5	93	101	60-130	7.77	25
2-Fluorobiphenyl	4.08	4.36	5	82	87	60-130	6.48	25
2,4,6-Tribromophenol	4.90	5.00	5	98	100	60-130	2.09	25
4-Terphenyl-d14	4.14	4.42	5	83	88	70-130	6.51	25

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/17/2020 - 10/19/2020	**BatchID:**	207536
Date Analyzed:	10/17/2020 - 10/19/2020	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207536

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	20.0	50.0	-	-	-
MTBE	ND	0.530	1.00	-	-	-
Benzene	ND	0.200	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
Ethylbenzene	ND	0.230	0.500	-	-	-
m,p-Xylene	ND	0.400	1.00	-	-	-
o-Xylene	ND	0.130	0.500	-	-	-
Surrogate Recovery						
aaa-TFT	8.81			10	88	74-117

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	57.9	57.7	60	97	96	78-116	0.424	20
MTBE	10.3	9.80	10	103	98	72-122	5.29	20
Benzene	9.90	9.53	10	99	95	81-123	3.82	20
Toluene	10.3	9.98	10	103	100	83-129	3.56	20
Ethylbenzene	10.1	9.84	10	101	98	88-126	2.84	20
m,p-Xylene	20.3	19.7	20	102	99	80-120	2.95	20
o-Xylene	9.85	9.58	10	98	96	80-120	2.78	20
Surrogate Recovery								
aaa-TFT	8.83	8.81	10	88	88	74-117	0.208	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/19/2020 - 10/20/2020	**BatchID:**	207630
Date Analyzed:	10/19/2020 - 10/20/2020	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207630

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	20.0	50.0	-	-	-
MTBE	ND	0.530	1.00	-	-	-
Benzene	ND	0.200	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
Ethylbenzene	ND	0.230	0.500	-	-	-
m,p-Xylene	ND	0.400	1.00	-	-	-
o-Xylene	ND	0.130	0.500	-	-	-
Surrogate Recovery						
aaa-TFT	8.97			10	90	74-117

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	61.6	55.2	60	103	92	78-116	11.1	20
MTBE	9.62	10.1	10	96	101	72-122	4.84	20
Benzene	9.99	10.2	10	100	102	81-123	1.88	20
Toluene	10.7	10.5	10	107	105	83-129	1.54	20
Ethylbenzene	10.2	10.4	10	102	104	88-126	1.50	20
m,p-Xylene	20.6	20.8	20	103	104	80-120	1.39	20
o-Xylene	9.74	10.0	10	97	100	80-120	2.80	20
Surrogate Recovery								
aaa-TFT	9.57	9.36	10	96	94	74-117	2.20	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/13/2020	**BatchID:**	207320
Date Analyzed:	10/15/2020	**Extraction Method:**	SW3510C/3630C
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207320

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	30.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	120	250	-	-	-
Surrogate Recovery						
C9	557			625	89	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1010	1020	1000	101	102	70-130	1.03	20
Surrogate Recovery								
C9	616	618	625	99	99	70-130	0.298	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010730
Date Prepared:	10/19/2020	**BatchID:**	207636
Date Analyzed:	10/20/2020	**Extraction Method:**	SW3510C/3630C
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207636

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	30.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	120	250	-	-	-
Surrogate Recovery						
C9	565			625	90	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1140	1160	1000	114	116	70-130	2.17	20
Surrogate Recovery								
C9	688	694	625	110	111	70-130	0.906	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2010730 **ClientCode: FUL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
(925) 949-7140 FAX: (925) 949-7070

Email: kemery@fugro.com
cc/3rd Party:
PO:
Project: 04.00163392; Peerless

Bill to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
kemery@fugro.com

Requested TAT: 5 days;

Date Received: **10/14/2020**
Date Logged: **10/14/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2010730-001	M-1	Water	10/14/2020 08:43	☐	D	B	C	A	A	A						
2010730-002	M-2	Water	10/14/2020 12:35	☐	D	B	C	A	A	A						
2010730-003	M-4	Water	10/14/2020 10:33	☐	D	B	C	A	A	A						
2010730-004	M-5	Water	10/14/2020 14:05	☐	D	B	C	A	A	A						

Test Legend:

1	8081_W	2	8260B_W	3	8270_SCSM_W	4	G-MBTEX_W
5	PRDisposal Fee	6	TPH(DMO)WSG_W	7		8	
9		10		11		12	

Project Manager: Rosa Venegas **Prepared by: Lilly Ortiz**

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup Multi RangeWSG_W.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments:

Work Order: 2010730
QC Level: LEVEL 2
Date Logged: 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-001A	M-1	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/14/2020 8:43	5 days	Present	☐	
2010730-001B	M-1	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/14/2020 8:43	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments:

Work Order: 2010730
QC Level: LEVEL 2
Date Logged: 10/14/2020

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-001C	M-1	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA, Unpres	☐	10/14/2020 8:43	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-001D	M-1	Water	SW8081A (OC Pesticides) <a-BHC_1, a-Chlordane_1, Aldrin_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan II_1, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin ketone_1, Endrin_1, g-BHC_1, g-Chlordane_1, Heptachlor epoxide_1, Heptachlor_1, Hexachlorobenzene_1, Hexachlorocyclopentadiene_1, Methoxychlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, Toxaphene_1>	2	aVOA, Unpres	☐	10/14/2020 8:43	5 days	Present	☐	
2010730-002A	M-2	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/14/2020 12:35	5 days	Present	☐	
2010730-002B	M-2	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/14/2020 12:35	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments:

Work Order: 2010730
QC Level: LEVEL 2
Date Logged: 10/14/2020

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-002C	M-2	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA, Unpres	☐	10/14/2020 12:35	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-002D	M-2	Water	SW8081A (OC Pesticides) <a-BHC_1, a-Chlordane_1, Aldrin_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan II_1, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin ketone_1, Endrin_1, g-BHC_1, g-Chlordane_1, Heptachlor epoxide_1, Heptachlor_1, Hexachlorobenzene_1, Hexachlorocyclopentadiene_1, Methoxychlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, Toxaphene_1>	2	aVOA, Unpres	☐	10/14/2020 12:35	5 days	Present	☐	
2010730-003A	M-4	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/14/2020 10:33	5 days	Present	☐	
2010730-003B	M-4	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/14/2020 10:33	5 days	Present	☐	

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-003C	M-4	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA, Unpres	☐	10/14/2020 10:33	5 days	Present	☐	

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WORK ORDER SUMMARY

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Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
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2010730-004A	M-5	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/14/2020 14:05	5 days	Present	☐	
2010730-004B	M-5	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/14/2020 14:05	5 days	Present	☐	

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WORK ORDER SUMMARY

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Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-004C	M-5	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA, Unpres	☐	10/14/2020 14:05	5 days	Present	☐	

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WORK ORDER SUMMARY

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Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010730
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments:** **Date Logged:** 10/14/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010730-004D	M-5	Water	SW8081A (OC Pesticides) <a-BHC_1, a-Chlordane_1, Aldrin_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan II_1, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin ketone_1, Endrin_1, g-BHC_1, g-Chlordane_1, Heptachlor epoxide_1, Heptachlor_1, Hexachlorobenzene_1, Hexachlorocyclopentadiene_1, Methoxychlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, Toxaphene_1>	2	aVOA, Unpres	☐	10/14/2020 14:05	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

2010730

FF-02 CHAIN OF CUSTODY

PROJECT NAME: Peerless

PROJECT NO.: 04.00163392 LAB: McCampbell

PROJECT CONTACT: Karen Emery TURNAROUND: 5 day

SAMPLED BY: K.Emery

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX: WATER	SOIL	AIR		CONTAINERS: VOA	LITER	PINT	TUBE			Ewm: HCL	H_2SO_4	HNO_3	ICE	OTHER	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	TPHg/TPHd/TPHmo with Silica Gel Cleanup	VOCs (8260)	SVOCs including Pentachlorophenol & Naphthalene (8270)	Organochlorine Pesticides including Chlordane (8081)
	M-1	X				X	X								X			10	14	20	0843		X	X	X	X
	M-2	X				X	X								X			10	14	20	1235		X	X	X	X
	M-4	X				X	X								X			10	14	20	1033		X	X	X	X
	M-5	X				X	X								X			10	14	20	1405		X	X	X	X
	S-7	X				X	X								X			10	14	20			X	X	X	X
	S-8	X				X	X								X			10	14	20			X	X	X	X
	S-9	X				X	X								X			10	14	20			X	X	X	X
	S-10	X				X	X								X			10	14	20			X	X	X	X

RJT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
	10/14/20 3:55		10/14/20 1535
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
			0545
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

COMMENTS & NOTES:

FUGRO USA LAND, INC.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
Tel: 925.949.7100 Fax: 925.949.7070

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Sample Receipt Checklist

Client Name: **Fugro USA Land, Inc.**
Project: **04.00163392; Peerless**

WorkOrder №: **2010730** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **10/14/2020 15:55**
Date Logged: **10/14/2020**
Received by: Lilly Ortiz
Logged by: Lilly Ortiz

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

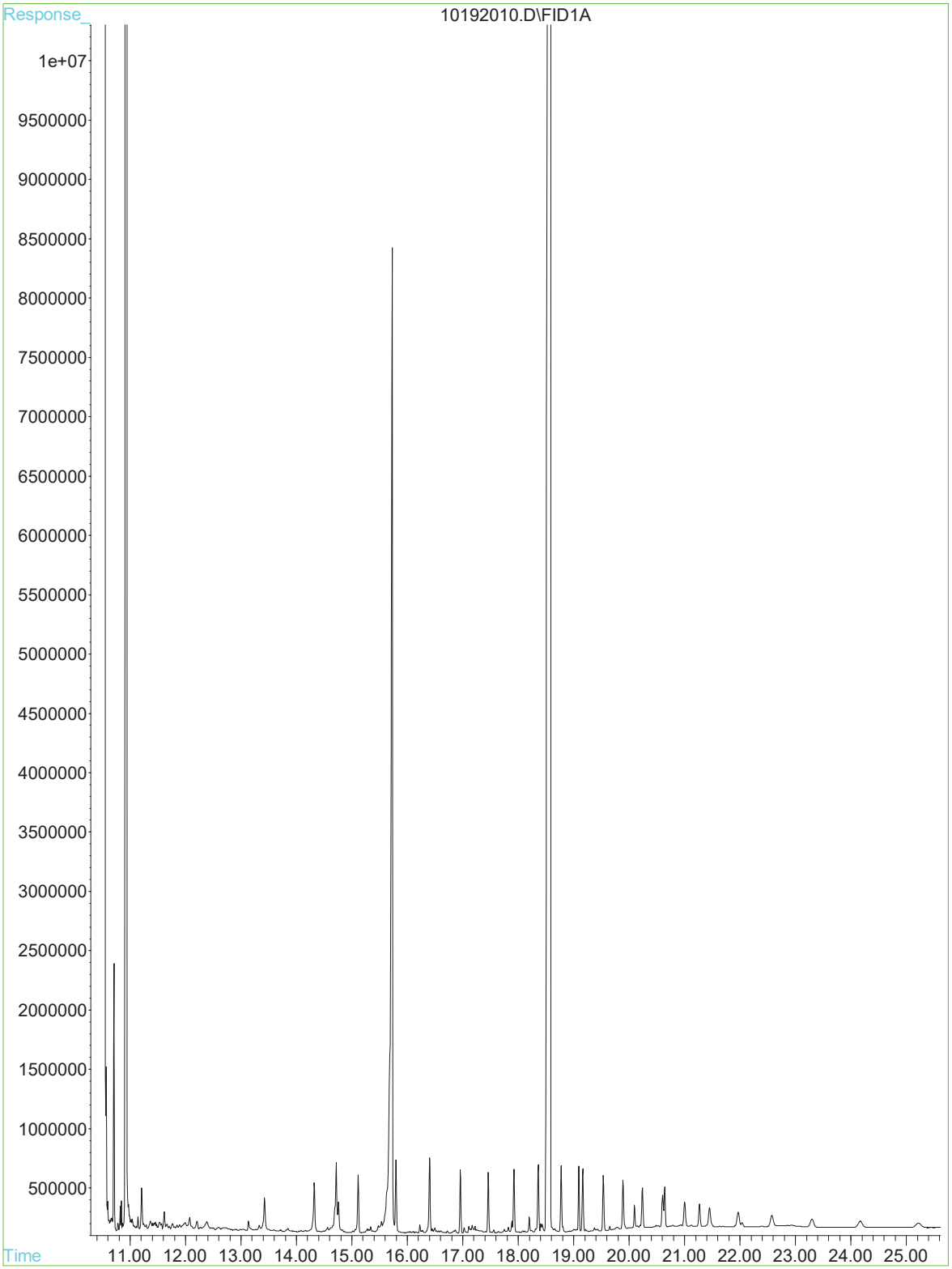
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

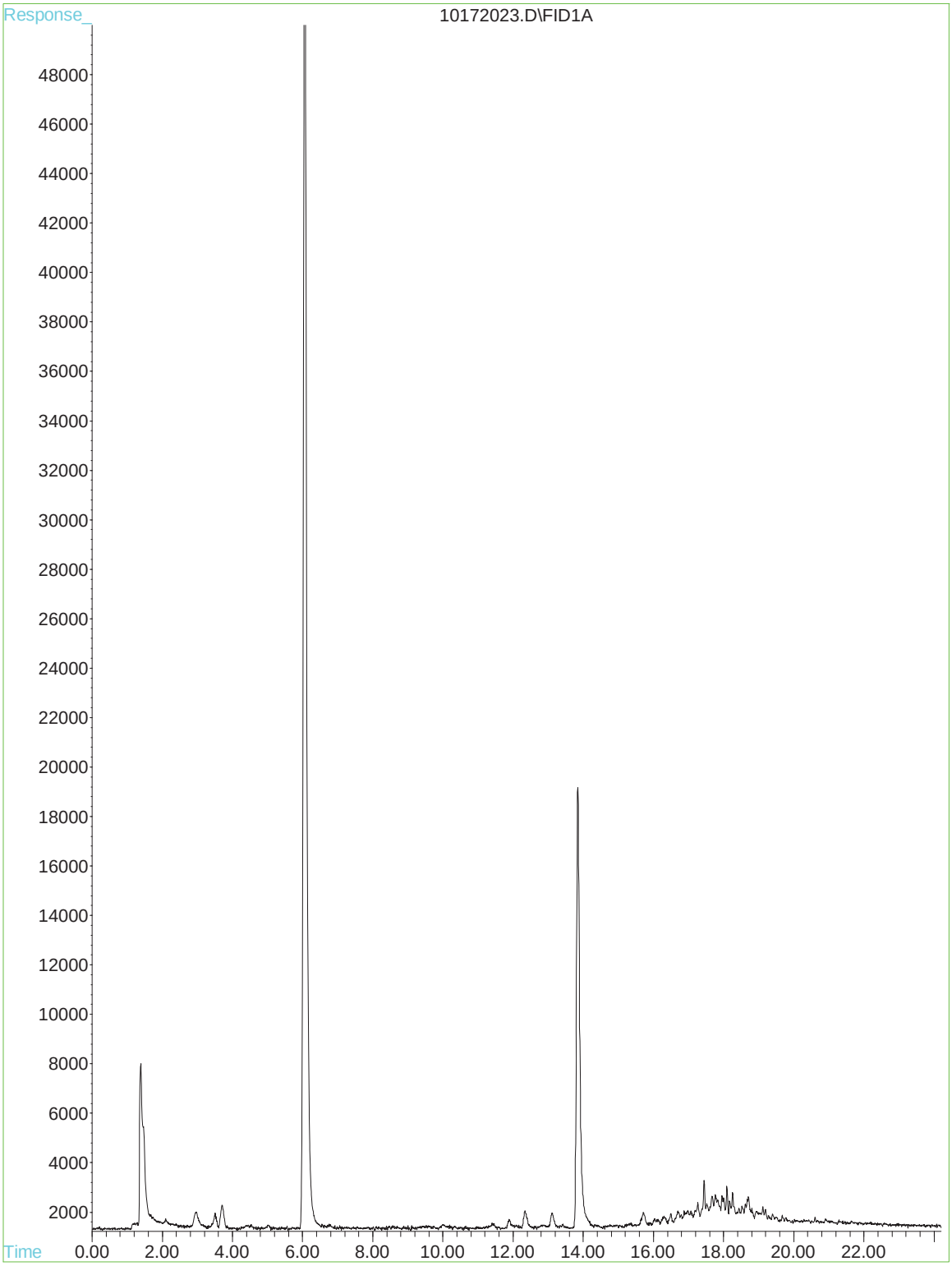
All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 0.5°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA	☐
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:

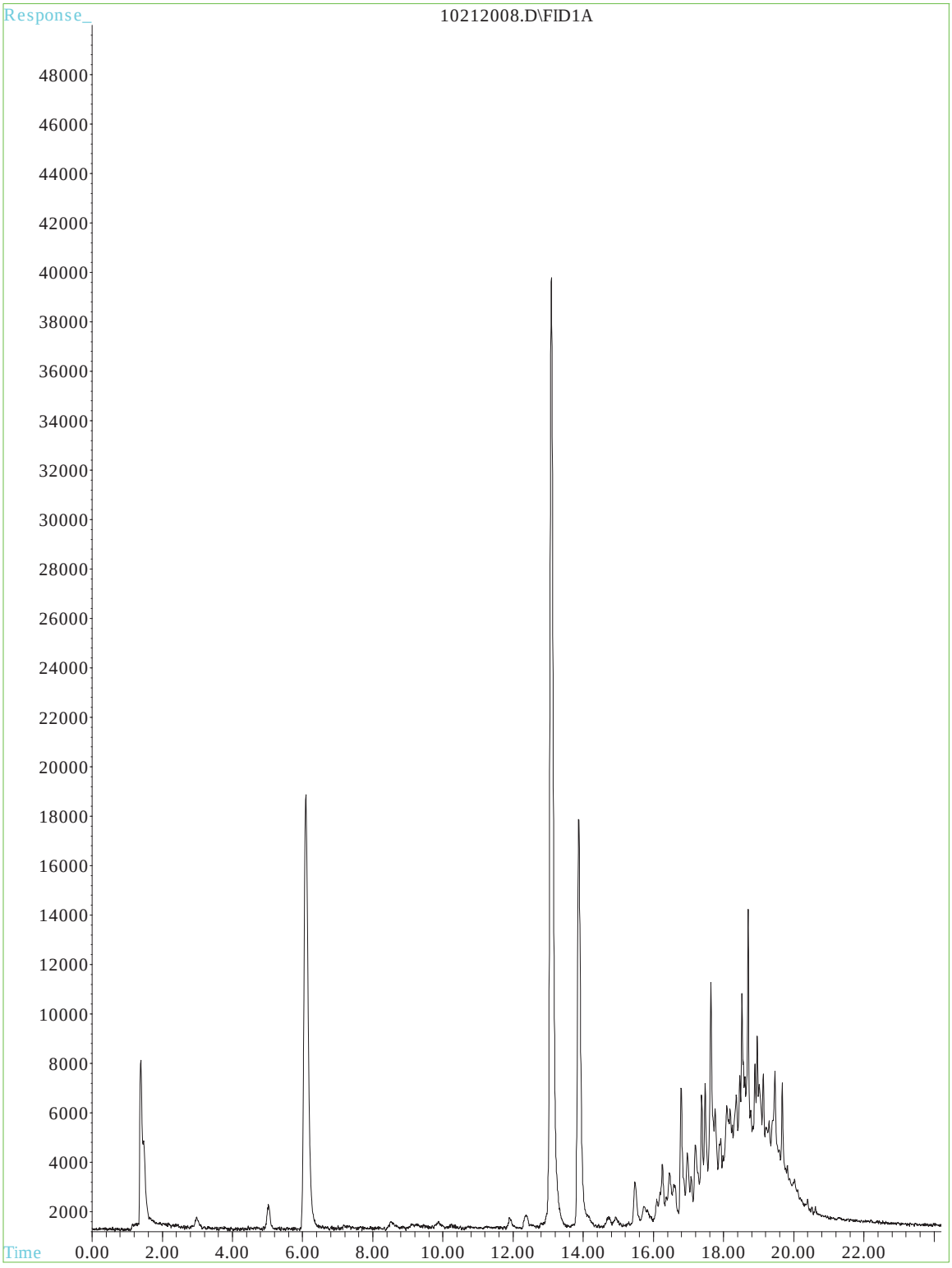
File : D:\HPCHEM\GC39\DATAA\10192010.D
Operator : Jillian
Acquired : 19 Oct 2020 6:48 pm using AcqMethod GC39A_C.M
Instrument : GC-39
Sample Name: 2010730-001A W WSG RE
Misc Info : TPHSG
Vial Number: 5



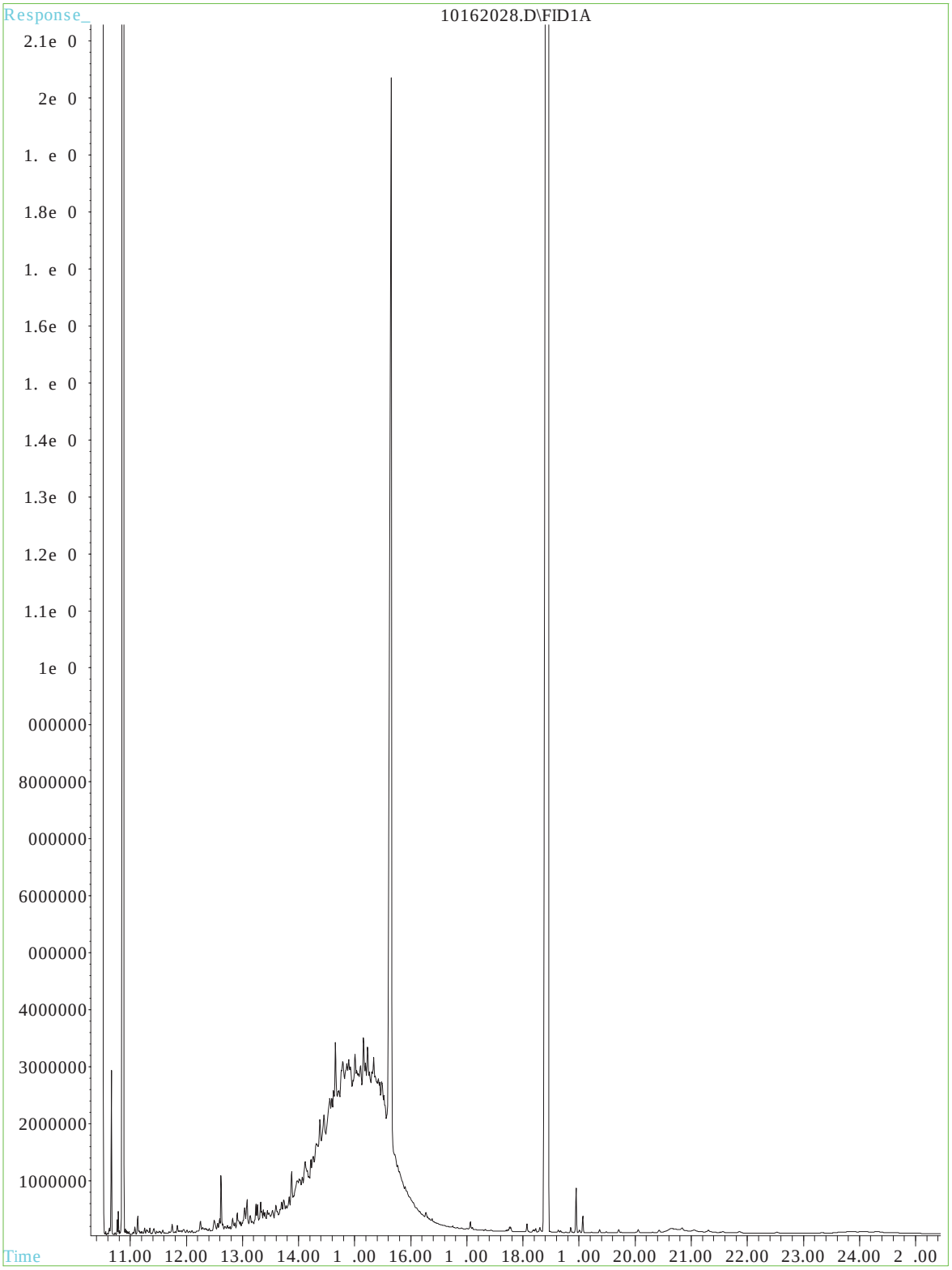
File : D:\HPCHEM\GC3\DATA\10172023.D
Operator : IRINA
Acquired : 17 Oct 2020 10:02 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010730-001A W
Misc Info : G-MBTEX_W
Vial Number: 23



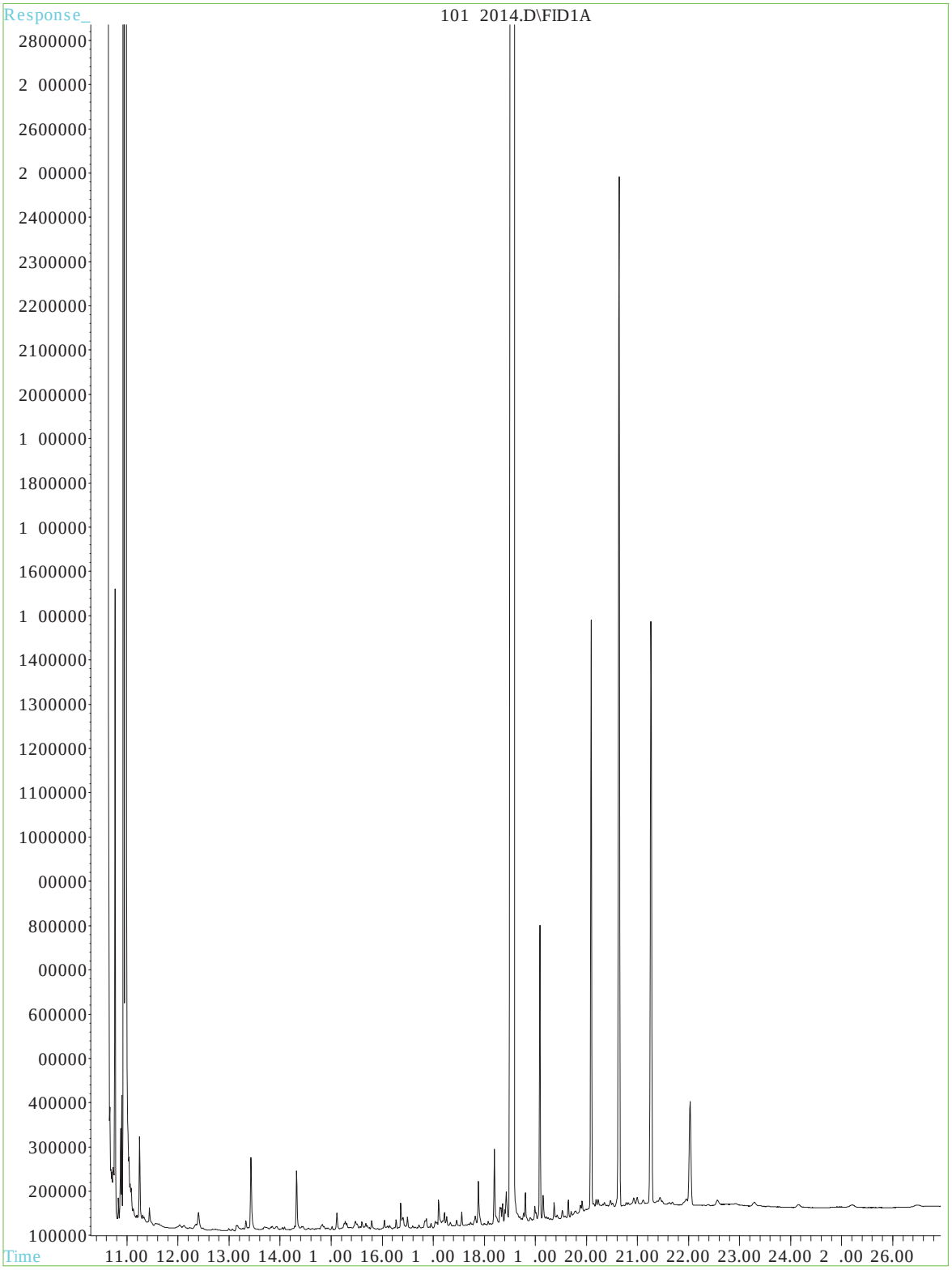
File : D:\HPCHEM\GC3\DATA\10212008.D
Operator : IRINA
Acquired : 21 Oct 2020 3:57 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010730-002A W RR
Misc Info : G-MBTEX_W
Vial Number: 8



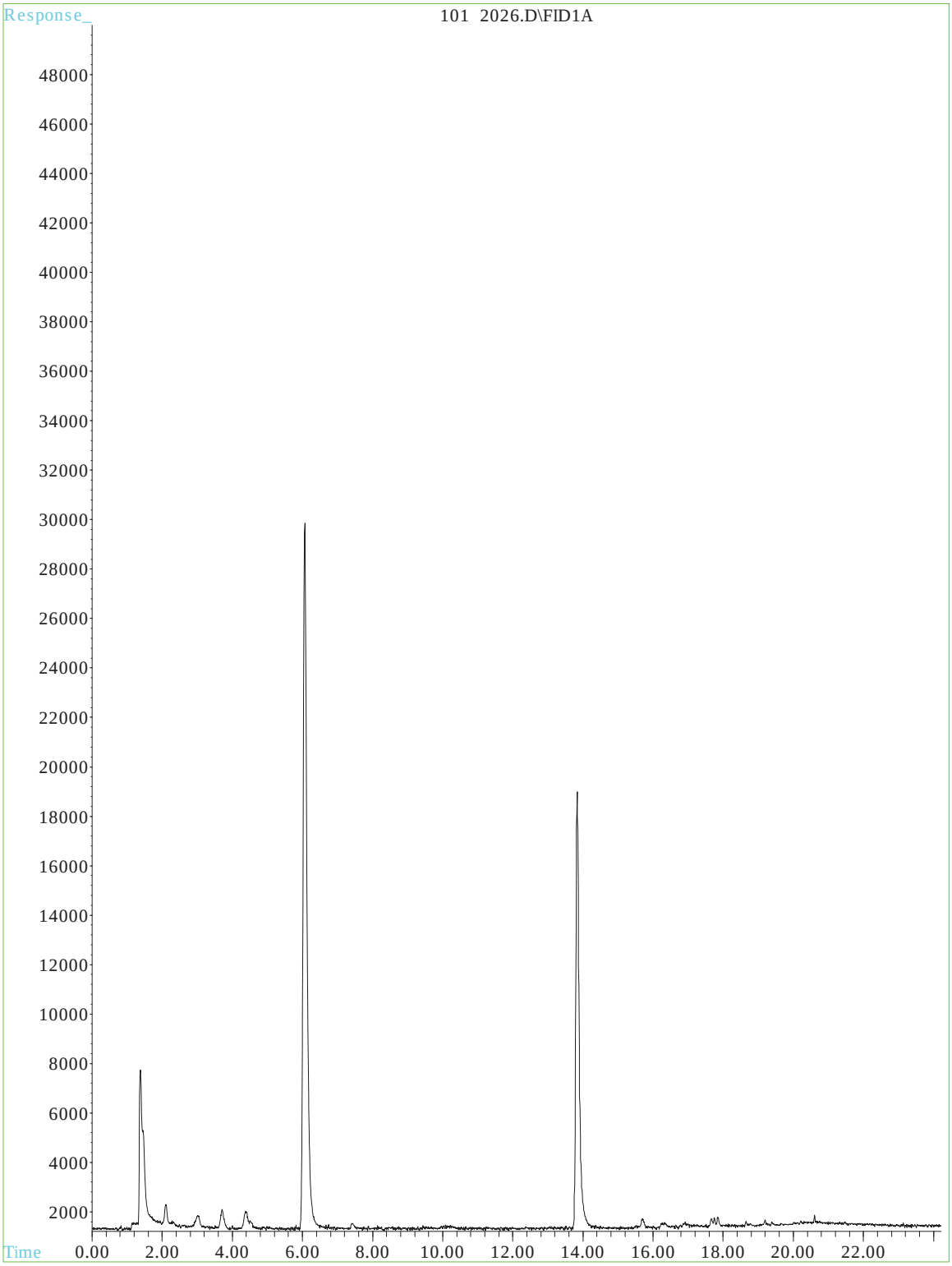
File : D:\HPCHEM\GC11\DATAA\10162028.D
Operator : JILLIAN
Acquired : 17 Oct 2020 6:36 am using AcqMethod GC11A_B7.M
Instrument : GC-11
Sample Name: 2010730-002A W WSG
Misc Info : TPHSG
Vial Number: 14



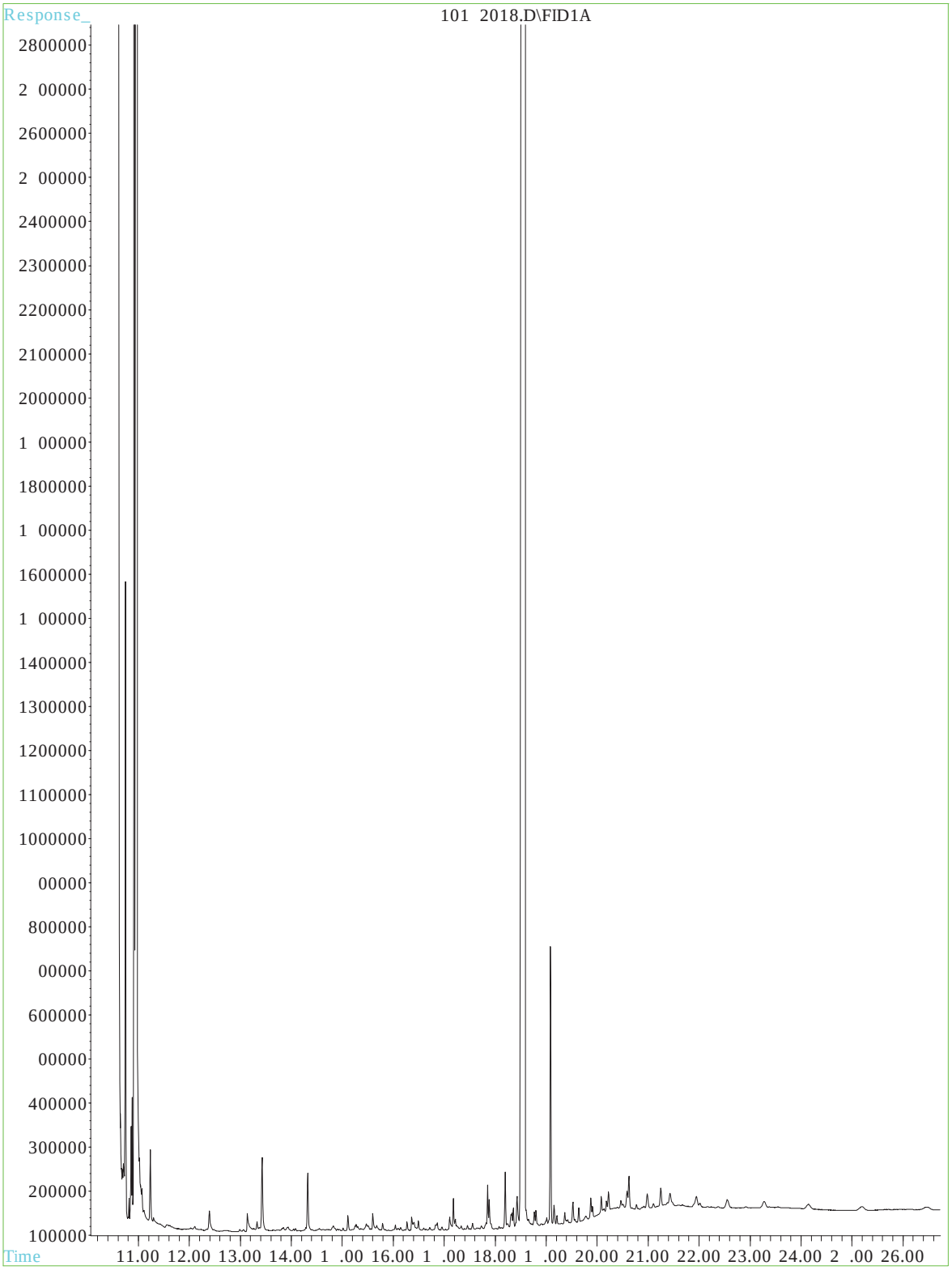
File : D:\HPCHEM\GC39\DATAA\10192014.D
Operator : Jillian
Acquired : 19 Oct 2020 8:07 pm using AcqMethod GC39A_C.M
Instrument : GC-39
Sample Name: 2010730-003A W WSG RE
Misc Info : TPHSG
Vial Number: 7



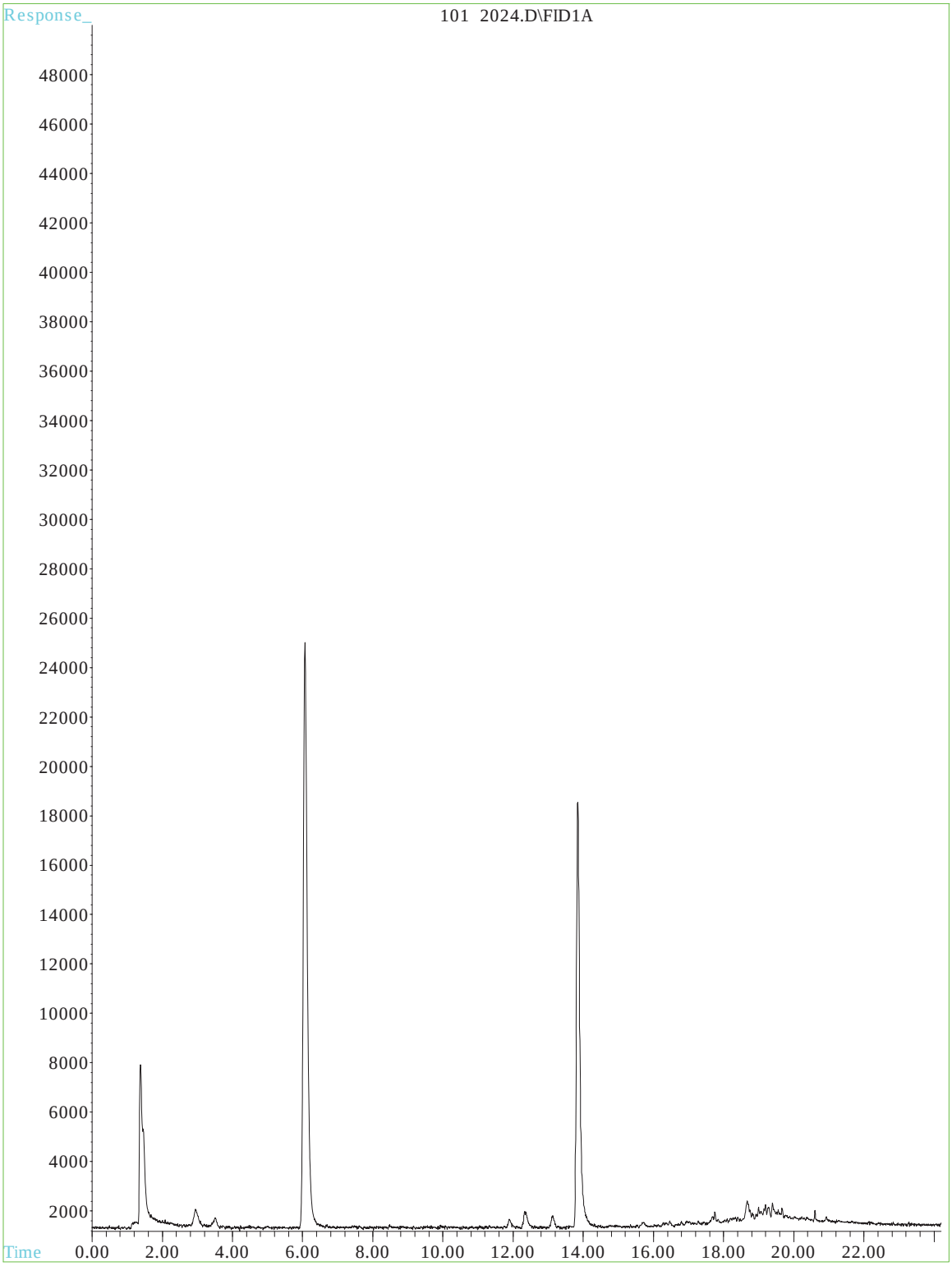
File : D:\HPCHEM\GC3\DATA\10172026.D
Operator : IRINA
Acquired : 17 Oct 2020 11:35 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010730-003A W
Misc Info : G-MBTEX_W
Vial Number: 26



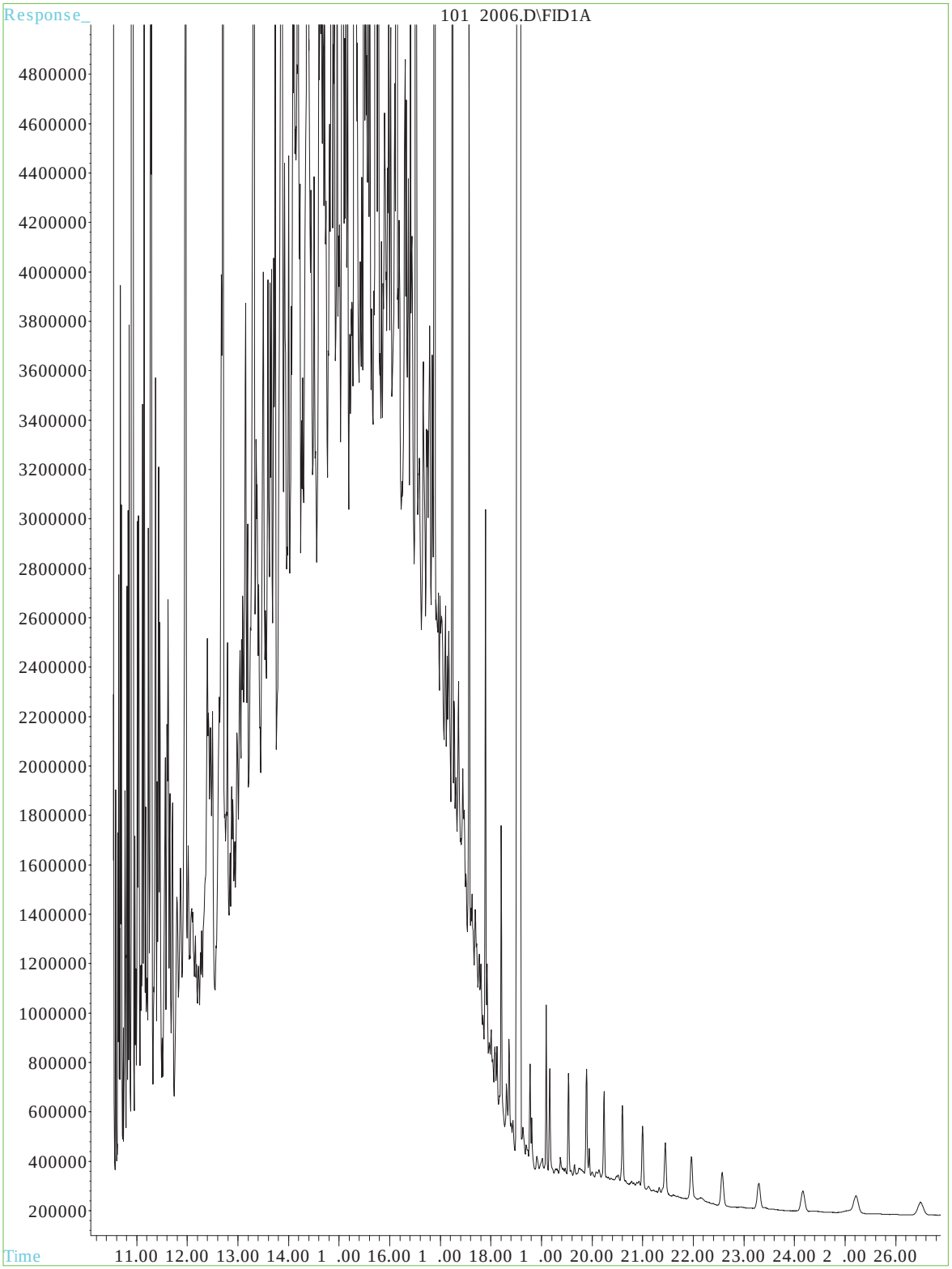
File : D:\HPCHEM\GC39\DATAA\10192018.D
Operator : Jillian
Acquired : 19 Oct 2020 9:25 pm using AcqMethod GC39A_C.M
Instrument : GC-39
Sample Name: 2010730-004A W WSG RE
Misc Info : TPHSG
Vial Number: 9



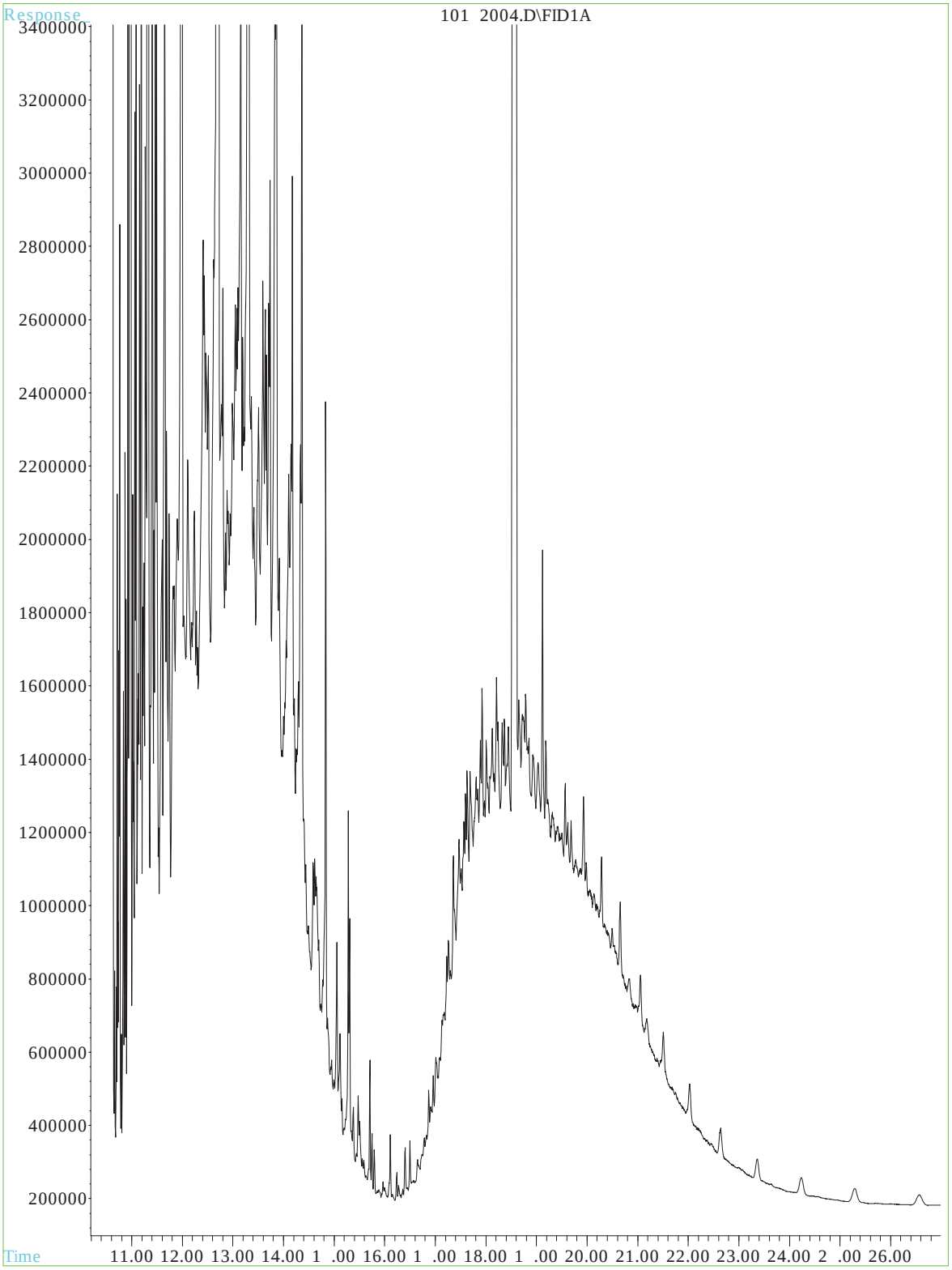
File : D:\HPCHEM\GC3\DATA\10172024.D
Operator : IRINA
Acquired : 17 Oct 2020 10:33 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010730-004A W
Misc Info : G-MBTEX_W
Vial Number: 24



File : D:\HPCHEM\GC39\DATAA\10192006.D
Operator : Jillian
Acquired : 19 Oct 2020 5:29 pm using AcqMethod GC39A_C.M
Instrument : GC-39
Sample Name: CCV 10-6
Misc Info :
Vial Number: 3



File : D:\HPCHEM\GC39\DATAA\10192004.D
Operator : Jillian
Acquired : 19 Oct 2020 4:49 pm using AcqMethod GC39A_C.M
Instrument : GC-39
Sample Name: CCV K MO
Misc Info :
Vial Number: 2



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Analytical Report

WorkOrder: 2010779

Report Created for: Fugro USA Land, Inc.

1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596

Project Contact: Karen Emery
Project P.O.:
Project: 04.00163392; Peerless

Project Received: 10/15/2020

Analytical Report reviewed & approved for release on 11/02/2020 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010779

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010779

Analytical Qualifiers

S	Surrogate recovery outside accepted recovery limits.
a2	Sample diluted due to cluttered chromatogram.
a3	Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.
d6	One to a few isolated non-target peaks present in the TPH(g) chromatogram
d7	Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	No recognizable pattern
e2/e6	Diesel range compounds are significant; no recognizable pattern; and/or One to a few isolated peaks present in the TPH(d/mo) chromatogram
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010779-001C	Water	10/15/2020 09:27	GC20 10192038.D	207476

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.50	100	10/19/2020 19:02
a-BHC	ND	1.0	100	10/19/2020 19:02
b-BHC	ND	0.50	100	10/19/2020 19:02
d-BHC	ND	0.50	100	10/19/2020 19:02
g-BHC	ND	2.0	100	10/19/2020 19:02
Chlordane (Technical)	ND	10	100	10/19/2020 19:02
a-Chlordane	ND	5.0	100	10/19/2020 19:02
g-Chlordane	ND	5.0	100	10/19/2020 19:02
p,p-DDD	ND	1.0	100	10/19/2020 19:02
p,p-DDE	ND	1.0	100	10/19/2020 19:02
p,p-DDT	ND	1.0	100	10/19/2020 19:02
Dieldrin	ND	1.0	100	10/19/2020 19:02
Endosulfan I	ND	2.0	100	10/19/2020 19:02
Endosulfan II	ND	2.0	100	10/19/2020 19:02
Endosulfan sulfate	ND	5.0	100	10/19/2020 19:02
Endrin	ND	1.0	100	10/19/2020 19:02
Endrin aldehyde	ND	5.0	100	10/19/2020 19:02
Endrin ketone	ND	5.0	100	10/19/2020 19:02
Heptachlor	ND	1.0	100	10/19/2020 19:02
Heptachlor epoxide	ND	1.0	100	10/19/2020 19:02
Hexachlorobenzene	ND	50	100	10/19/2020 19:02
Hexachlorocyclopentadiene	ND	100	100	10/19/2020 19:02
Methoxychlor	ND	10	100	10/19/2020 19:02
Toxaphene	ND	50	100	10/19/2020 19:02

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	189	S	61-139	10/19/2020 19:02

Analyst(s): CK Analytical Comments: a2,c1

(Cont.)

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010779-002C	Water	10/15/2020 09:08	GC20 10192039.D	207476

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.50	100	10/19/2020 19:17
a-BHC	ND	1.0	100	10/19/2020 19:17
b-BHC	ND	0.50	100	10/19/2020 19:17
d-BHC	ND	0.50	100	10/19/2020 19:17
g-BHC	ND	2.0	100	10/19/2020 19:17
Chlordane (Technical)	ND	10	100	10/19/2020 19:17
a-Chlordane	ND	5.0	100	10/19/2020 19:17
g-Chlordane	ND	5.0	100	10/19/2020 19:17
p,p-DDD	ND	1.0	100	10/19/2020 19:17
p,p-DDE	ND	1.0	100	10/19/2020 19:17
p,p-DDT	ND	1.0	100	10/19/2020 19:17
Dieldrin	ND	1.0	100	10/19/2020 19:17
Endosulfan I	ND	2.0	100	10/19/2020 19:17
Endosulfan II	ND	2.0	100	10/19/2020 19:17
Endosulfan sulfate	ND	5.0	100	10/19/2020 19:17
Endrin	ND	1.0	100	10/19/2020 19:17
Endrin aldehyde	ND	5.0	100	10/19/2020 19:17
Endrin ketone	ND	5.0	100	10/19/2020 19:17
Heptachlor	ND	1.0	100	10/19/2020 19:17
Heptachlor epoxide	ND	1.0	100	10/19/2020 19:17
Hexachlorobenzene	ND	50	100	10/19/2020 19:17
Hexachlorocyclopentadiene	ND	100	100	10/19/2020 19:17
Methoxychlor	ND	10	100	10/19/2020 19:17
Toxaphene	ND	50	100	10/19/2020 19:17

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	380	S	61-139	10/19/2020 19:17

Analyst(s): CK Analytical Comments: a2,c1

(Cont.)

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	**2010779-003C**	**Water**	**10/15/2020 08:47**	**GC20 10192040.D**	**207476**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.50	100	10/19/2020 19:32
a-BHC	ND	1.0	100	10/19/2020 19:32
b-BHC	ND	0.50	100	10/19/2020 19:32
d-BHC	ND	0.50	100	10/19/2020 19:32
g-BHC	ND	2.0	100	10/19/2020 19:32
Chlordane (Technical)	ND	10	100	10/19/2020 19:32
a-Chlordane	ND	5.0	100	10/19/2020 19:32
g-Chlordane	ND	5.0	100	10/19/2020 19:32
p,p-DDD	ND	1.0	100	10/19/2020 19:32
p,p-DDE	ND	1.0	100	10/19/2020 19:32
p,p-DDT	ND	1.0	100	10/19/2020 19:32
Dieldrin	**1.6**	1.0	100	10/19/2020 19:32
Endosulfan I	ND	2.0	100	10/19/2020 19:32
Endosulfan II	ND	2.0	100	10/19/2020 19:32
Endosulfan sulfate	ND	5.0	100	10/19/2020 19:32
Endrin	ND	1.0	100	10/19/2020 19:32
Endrin aldehyde	ND	5.0	100	10/19/2020 19:32
Endrin ketone	ND	5.0	100	10/19/2020 19:32
Heptachlor	ND	1.0	100	10/19/2020 19:32
Heptachlor epoxide	ND	1.0	100	10/19/2020 19:32
Hexachlorobenzene	ND	50	100	10/19/2020 19:32
Hexachlorocyclopentadiene	ND	100	100	10/19/2020 19:32
Methoxychlor	ND	10	100	10/19/2020 19:32
Toxaphene	ND	50	100	10/19/2020 19:32

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	250	S	61-139	10/19/2020 19:32

Analyst(s): CK Analytical Comments: a2,c1

(Cont.)

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8081A
Project:	04.00163392; Peerless	**Unit:**	µg/L

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	2010779-004C	Water	10/15/2020 08:30	GC20 10192041.D	207476

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.50	100	10/19/2020 19:47
a-BHC	ND	1.0	100	10/19/2020 19:47
b-BHC	ND	0.50	100	10/19/2020 19:47
d-BHC	ND	0.50	100	10/19/2020 19:47
g-BHC	ND	2.0	100	10/19/2020 19:47
Chlordane (Technical)	ND	10	100	10/19/2020 19:47
a-Chlordane	ND	5.0	100	10/19/2020 19:47
g-Chlordane	ND	5.0	100	10/19/2020 19:47
p,p-DDD	ND	1.0	100	10/19/2020 19:47
p,p-DDE	ND	1.0	100	10/19/2020 19:47
p,p-DDT	ND	1.0	100	10/19/2020 19:47
Dieldrin	ND	1.0	100	10/19/2020 19:47
Endosulfan I	ND	2.0	100	10/19/2020 19:47
Endosulfan II	ND	2.0	100	10/19/2020 19:47
Endosulfan sulfate	ND	5.0	100	10/19/2020 19:47
Endrin	ND	1.0	100	10/19/2020 19:47
Endrin aldehyde	ND	5.0	100	10/19/2020 19:47
Endrin ketone	ND	5.0	100	10/19/2020 19:47
Heptachlor	ND	1.0	100	10/19/2020 19:47
Heptachlor epoxide	ND	1.0	100	10/19/2020 19:47
Hexachlorobenzene	ND	50	100	10/19/2020 19:47
Hexachlorocyclopentadiene	ND	100	100	10/19/2020 19:47
Methoxychlor	ND	10	100	10/19/2020 19:47
Toxaphene	ND	50	100	10/19/2020 19:47

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	231	S	61-139	10/19/2020 19:47

Analyst(s): CK Analytical Comments: a2,c1

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010779-001B	Water	10/15/2020 09:27	GC38 10172023.D	207524

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10,000	250	10/17/2020 21:22
tert-Amyl methyl ether (TAME)	ND	120	250	10/17/2020 21:22
Benzene	ND	120	250	10/17/2020 21:22
Bromobenzene	ND	120	250	10/17/2020 21:22
Bromochloromethane	ND	120	250	10/17/2020 21:22
Bromodichloromethane	ND	120	250	10/17/2020 21:22
Bromoform	ND	120	250	10/17/2020 21:22
Bromomethane	ND	120	250	10/17/2020 21:22
2-Butanone (MEK)	ND	1200	250	10/17/2020 21:22
t-Butyl alcohol (TBA)	ND	1200	250	10/17/2020 21:22
n-Butyl benzene	ND	120	250	10/17/2020 21:22
sec-Butyl benzene	ND	120	250	10/17/2020 21:22
tert-Butyl benzene	ND	120	250	10/17/2020 21:22
Carbon Disulfide	ND	120	250	10/17/2020 21:22
Carbon Tetrachloride	ND	120	250	10/17/2020 21:22
Chlorobenzene	ND	120	250	10/17/2020 21:22
Chloroethane	ND	120	250	10/17/2020 21:22
Chloroform	ND	120	250	10/17/2020 21:22
Chloromethane	ND	120	250	10/17/2020 21:22
2-Chlorotoluene	ND	120	250	10/17/2020 21:22
4-Chlorotoluene	ND	120	250	10/17/2020 21:22
Dibromochloromethane	ND	120	250	10/17/2020 21:22
1,2-Dibromo-3-chloropropane	ND	250	250	10/17/2020 21:22
1,2-Dibromoethane (EDB)	ND	120	250	10/17/2020 21:22
Dibromomethane	ND	120	250	10/17/2020 21:22
1,2-Dichlorobenzene	ND	120	250	10/17/2020 21:22
1,3-Dichlorobenzene	ND	120	250	10/17/2020 21:22
1,4-Dichlorobenzene	ND	120	250	10/17/2020 21:22
Dichlorodifluoromethane	ND	120	250	10/17/2020 21:22
1,1-Dichloroethane	ND	120	250	10/17/2020 21:22
1,2-Dichloroethane (1,2-DCA)	ND	120	250	10/17/2020 21:22
1,1-Dichloroethene	ND	120	250	10/17/2020 21:22
cis-1,2-Dichloroethene	ND	120	250	10/17/2020 21:22
trans-1,2-Dichloroethene	ND	120	250	10/17/2020 21:22
1,2-Dichloropropane	ND	120	250	10/17/2020 21:22
1,3-Dichloropropane	ND	120	250	10/17/2020 21:22
2,2-Dichloropropane	ND	120	250	10/17/2020 21:22

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010779-001B	Water	10/15/2020 09:27	GC38 10172023.D	207524

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	120	250	10/17/2020 21:22
cis-1,3-Dichloropropene	ND	120	250	10/17/2020 21:22
trans-1,3-Dichloropropene	ND	120	250	10/17/2020 21:22
Diisopropyl ether (DIPE)	ND	120	250	10/17/2020 21:22
Ethylbenzene	ND	120	250	10/17/2020 21:22
Ethyl tert-butyl ether (ETBE)	ND	120	250	10/17/2020 21:22
Freon 113	ND	120	250	10/17/2020 21:22
Hexachlorobutadiene	ND	120	250	10/17/2020 21:22
Hexachloroethane	ND	120	250	10/17/2020 21:22
2-Hexanone	ND	250	250	10/17/2020 21:22
Isopropylbenzene	ND	120	250	10/17/2020 21:22
4-Isopropyl toluene	ND	120	250	10/17/2020 21:22
Methyl-t-butyl ether (MTBE)	ND	120	250	10/17/2020 21:22
Methylene chloride	ND	500	250	10/17/2020 21:22
4-Methyl-2-pentanone (MIBK)	**7900**	120	250	10/17/2020 21:22
Naphthalene	ND	250	250	10/17/2020 21:22
n-Propyl benzene	ND	120	250	10/17/2020 21:22
Styrene	ND	500	250	10/17/2020 21:22
1,1,1,2-Tetrachloroethane	ND	120	250	10/17/2020 21:22
1,1,2,2-Tetrachloroethane	ND	120	250	10/17/2020 21:22
Tetrachloroethene	ND	120	250	10/17/2020 21:22
Toluene	ND	120	250	10/17/2020 21:22
1,2,3-Trichlorobenzene	ND	120	250	10/17/2020 21:22
1,2,4-Trichlorobenzene	ND	120	250	10/17/2020 21:22
1,1,1-Trichloroethane	ND	120	250	10/17/2020 21:22
1,1,2-Trichloroethane	ND	120	250	10/17/2020 21:22
Trichloroethene	ND	120	250	10/17/2020 21:22
Trichlorofluoromethane	ND	120	250	10/17/2020 21:22
1,2,3-Trichloropropane	ND	120	250	10/17/2020 21:22
1,2,4-Trimethylbenzene	ND	120	250	10/17/2020 21:22
1,3,5-Trimethylbenzene	ND	120	250	10/17/2020 21:22
Vinyl Chloride	ND	120	250	10/17/2020 21:22
m,p-Xylene	ND	120	250	10/17/2020 21:22
o-Xylene	ND	120	250	10/17/2020 21:22
Xylenes, Total	ND	120	250	10/17/2020 21:22

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	**2010779-001B**	**Water**	**10/15/2020 09:27**	**GC38 10172023.D**	**207524**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	84	78-112		10/17/2020 21:22
Toluene-d8	102	82-109		10/17/2020 21:22
4-BFB	92	63-121		10/17/2020 21:22

Analyst(s): TW

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010779-002B	Water	10/15/2020 09:08	GC38 10172020.D	207524

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	1	10/17/2020 19:29
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/17/2020 19:29
Benzene	ND	0.50	1	10/17/2020 19:29
Bromobenzene	ND	0.50	1	10/17/2020 19:29
Bromochloromethane	ND	0.50	1	10/17/2020 19:29
Bromodichloromethane	ND	0.50	1	10/17/2020 19:29
Bromoform	ND	0.50	1	10/17/2020 19:29
Bromomethane	ND	0.50	1	10/17/2020 19:29
2-Butanone (MEK)	ND	5.0	1	10/17/2020 19:29
t-Butyl alcohol (TBA)	ND	5.0	1	10/17/2020 19:29
n-Butyl benzene	ND	0.50	1	10/17/2020 19:29
sec-Butyl benzene	ND	0.50	1	10/17/2020 19:29
tert-Butyl benzene	ND	0.50	1	10/17/2020 19:29
Carbon Disulfide	ND	0.50	1	10/17/2020 19:29
Carbon Tetrachloride	ND	0.50	1	10/17/2020 19:29
Chlorobenzene	ND	0.50	1	10/17/2020 19:29
Chloroethane	ND	0.50	1	10/17/2020 19:29
Chloroform	ND	0.50	1	10/17/2020 19:29
Chloromethane	ND	0.50	1	10/17/2020 19:29
2-Chlorotoluene	ND	0.50	1	10/17/2020 19:29
4-Chlorotoluene	ND	0.50	1	10/17/2020 19:29
Dibromochloromethane	ND	0.50	1	10/17/2020 19:29
1,2-Dibromo-3-chloropropane	ND	1.0	1	10/17/2020 19:29
1,2-Dibromoethane (EDB)	ND	0.50	1	10/17/2020 19:29
Dibromomethane	ND	0.50	1	10/17/2020 19:29
1,2-Dichlorobenzene	ND	0.50	1	10/17/2020 19:29
1,3-Dichlorobenzene	ND	0.50	1	10/17/2020 19:29
1,4-Dichlorobenzene	ND	0.50	1	10/17/2020 19:29
Dichlorodifluoromethane	ND	0.50	1	10/17/2020 19:29
1,1-Dichloroethane	ND	0.50	1	10/17/2020 19:29
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/17/2020 19:29
1,1-Dichloroethene	ND	0.50	1	10/17/2020 19:29
cis-1,2-Dichloroethene	ND	0.50	1	10/17/2020 19:29
trans-1,2-Dichloroethene	ND	0.50	1	10/17/2020 19:29
1,2-Dichloropropane	ND	0.50	1	10/17/2020 19:29
1,3-Dichloropropane	ND	0.50	1	10/17/2020 19:29
2,2-Dichloropropane	ND	0.50	1	10/17/2020 19:29

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010779-002B	Water	10/15/2020 09:08	GC38 10172020.D	207524

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/17/2020 19:29
cis-1,3-Dichloropropene	ND	0.50	1	10/17/2020 19:29
trans-1,3-Dichloropropene	ND	0.50	1	10/17/2020 19:29
Diisopropyl ether (DIPE)	ND	0.50	1	10/17/2020 19:29
Ethylbenzene	ND	0.50	1	10/17/2020 19:29
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/17/2020 19:29
Freon 113	ND	0.50	1	10/17/2020 19:29
Hexachlorobutadiene	ND	0.50	1	10/17/2020 19:29
Hexachloroethane	ND	0.50	1	10/17/2020 19:29
2-Hexanone	ND	1.0	1	10/17/2020 19:29
Isopropylbenzene	ND	0.50	1	10/17/2020 19:29
4-Isopropyl toluene	ND	0.50	1	10/17/2020 19:29
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/17/2020 19:29
Methylene chloride	ND	2.0	1	10/17/2020 19:29
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/17/2020 19:29
Naphthalene	ND	1.0	1	10/17/2020 19:29
n-Propyl benzene	ND	0.50	1	10/17/2020 19:29
Styrene	ND	2.0	1	10/17/2020 19:29
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/17/2020 19:29
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/17/2020 19:29
Tetrachloroethene	ND	0.50	1	10/17/2020 19:29
Toluene	ND	0.50	1	10/17/2020 19:29
1,2,3-Trichlorobenzene	ND	0.50	1	10/17/2020 19:29
1,2,4-Trichlorobenzene	ND	0.50	1	10/17/2020 19:29
1,1,1-Trichloroethane	ND	0.50	1	10/17/2020 19:29
1,1,2-Trichloroethane	ND	0.50	1	10/17/2020 19:29
Trichloroethene	ND	0.50	1	10/17/2020 19:29
Trichlorofluoromethane	ND	0.50	1	10/17/2020 19:29
1,2,3-Trichloropropane	ND	0.50	1	10/17/2020 19:29
1,2,4-Trimethylbenzene	ND	0.50	1	10/17/2020 19:29
1,3,5-Trimethylbenzene	ND	0.50	1	10/17/2020 19:29
Vinyl Chloride	ND	0.50	1	10/17/2020 19:29
m,p-Xylene	ND	0.50	1	10/17/2020 19:29
o-Xylene	ND	0.50	1	10/17/2020 19:29
Xylenes, Total	ND	0.50	1	10/17/2020 19:29

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	**2010779-002B**	**Water**	**10/15/2020 09:08**	**GC38 10172020.D**	**207524**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	93	78-112		10/17/2020 19:29
Toluene-d8	101	82-109		10/17/2020 19:29
4-BFB	94	63-121		10/17/2020 19:29

Analyst(s): TW

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	2010779-003B	Water	10/15/2020 08:47	GC38 10172021.D	207524

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	1	10/17/2020 20:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/17/2020 20:07
Benzene	ND	0.50	1	10/17/2020 20:07
Bromobenzene	ND	0.50	1	10/17/2020 20:07
Bromochloromethane	ND	0.50	1	10/17/2020 20:07
Bromodichloromethane	ND	0.50	1	10/17/2020 20:07
Bromoform	ND	0.50	1	10/17/2020 20:07
Bromomethane	ND	0.50	1	10/17/2020 20:07
2-Butanone (MEK)	ND	5.0	1	10/17/2020 20:07
t-Butyl alcohol (TBA)	ND	5.0	1	10/17/2020 20:07
n-Butyl benzene	ND	0.50	1	10/17/2020 20:07
sec-Butyl benzene	ND	0.50	1	10/17/2020 20:07
tert-Butyl benzene	ND	0.50	1	10/17/2020 20:07
Carbon Disulfide	ND	0.50	1	10/17/2020 20:07
Carbon Tetrachloride	ND	0.50	1	10/17/2020 20:07
Chlorobenzene	ND	0.50	1	10/17/2020 20:07
Chloroethane	ND	0.50	1	10/17/2020 20:07
Chloroform	ND	0.50	1	10/17/2020 20:07
Chloromethane	ND	0.50	1	10/17/2020 20:07
2-Chlorotoluene	ND	0.50	1	10/17/2020 20:07
4-Chlorotoluene	ND	0.50	1	10/17/2020 20:07
Dibromochloromethane	ND	0.50	1	10/17/2020 20:07
1,2-Dibromo-3-chloropropane	ND	1.0	1	10/17/2020 20:07
1,2-Dibromoethane (EDB)	ND	0.50	1	10/17/2020 20:07
Dibromomethane	ND	0.50	1	10/17/2020 20:07
1,2-Dichlorobenzene	ND	0.50	1	10/17/2020 20:07
1,3-Dichlorobenzene	ND	0.50	1	10/17/2020 20:07
1,4-Dichlorobenzene	ND	0.50	1	10/17/2020 20:07
Dichlorodifluoromethane	ND	0.50	1	10/17/2020 20:07
1,1-Dichloroethane	ND	0.50	1	10/17/2020 20:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/17/2020 20:07
1,1-Dichloroethene	ND	0.50	1	10/17/2020 20:07
cis-1,2-Dichloroethene	ND	0.50	1	10/17/2020 20:07
trans-1,2-Dichloroethene	ND	0.50	1	10/17/2020 20:07
1,2-Dichloropropane	ND	0.50	1	10/17/2020 20:07
1,3-Dichloropropane	ND	0.50	1	10/17/2020 20:07
2,2-Dichloropropane	ND	0.50	1	10/17/2020 20:07

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	2010779-003B	Water	10/15/2020 08:47	GC38 10172021.D	207524

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/17/2020 20:07
cis-1,3-Dichloropropene	ND	0.50	1	10/17/2020 20:07
trans-1,3-Dichloropropene	ND	0.50	1	10/17/2020 20:07
Diisopropyl ether (DIPE)	ND	0.50	1	10/17/2020 20:07
Ethylbenzene	ND	0.50	1	10/17/2020 20:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/17/2020 20:07
Freon 113	ND	0.50	1	10/17/2020 20:07
Hexachlorobutadiene	ND	0.50	1	10/17/2020 20:07
Hexachloroethane	ND	0.50	1	10/17/2020 20:07
2-Hexanone	ND	1.0	1	10/17/2020 20:07
Isopropylbenzene	ND	0.50	1	10/17/2020 20:07
4-Isopropyl toluene	ND	0.50	1	10/17/2020 20:07
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/17/2020 20:07
Methylene chloride	ND	2.0	1	10/17/2020 20:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/17/2020 20:07
Naphthalene	ND	1.0	1	10/17/2020 20:07
n-Propyl benzene	ND	0.50	1	10/17/2020 20:07
Styrene	ND	2.0	1	10/17/2020 20:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/17/2020 20:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/17/2020 20:07
Tetrachloroethene	ND	0.50	1	10/17/2020 20:07
Toluene	ND	0.50	1	10/17/2020 20:07
1,2,3-Trichlorobenzene	ND	0.50	1	10/17/2020 20:07
1,2,4-Trichlorobenzene	ND	0.50	1	10/17/2020 20:07
1,1,1-Trichloroethane	ND	0.50	1	10/17/2020 20:07
1,1,2-Trichloroethane	ND	0.50	1	10/17/2020 20:07
Trichloroethene	ND	0.50	1	10/17/2020 20:07
Trichlorofluoromethane	ND	0.50	1	10/17/2020 20:07
1,2,3-Trichloropropane	ND	0.50	1	10/17/2020 20:07
1,2,4-Trimethylbenzene	ND	0.50	1	10/17/2020 20:07
1,3,5-Trimethylbenzene	ND	0.50	1	10/17/2020 20:07
Vinyl Chloride	ND	0.50	1	10/17/2020 20:07
m,p-Xylene	ND	0.50	1	10/17/2020 20:07
o-Xylene	ND	0.50	1	10/17/2020 20:07
Xylenes, Total	ND	0.50	1	10/17/2020 20:07

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	**2010779-003B**	**Water**	**10/15/2020 08:47**	**GC38 10172021.D**	**207524**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	92	78-112		10/17/2020 20:07
Toluene-d8	100	82-109		10/17/2020 20:07
4-BFB	93	63-121		10/17/2020 20:07

Analyst(s): TW

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	2010779-004B	Water	10/15/2020 08:30	GC38 10172022.D	207524

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	1	10/17/2020 20:44
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/17/2020 20:44
Benzene	ND	0.50	1	10/17/2020 20:44
Bromobenzene	ND	0.50	1	10/17/2020 20:44
Bromochloromethane	ND	0.50	1	10/17/2020 20:44
Bromodichloromethane	ND	0.50	1	10/17/2020 20:44
Bromoform	ND	0.50	1	10/17/2020 20:44
Bromomethane	ND	0.50	1	10/17/2020 20:44
2-Butanone (MEK)	ND	5.0	1	10/17/2020 20:44
t-Butyl alcohol (TBA)	ND	5.0	1	10/17/2020 20:44
n-Butyl benzene	ND	0.50	1	10/17/2020 20:44
sec-Butyl benzene	ND	0.50	1	10/17/2020 20:44
tert-Butyl benzene	ND	0.50	1	10/17/2020 20:44
Carbon Disulfide	ND	0.50	1	10/17/2020 20:44
Carbon Tetrachloride	ND	0.50	1	10/17/2020 20:44
Chlorobenzene	ND	0.50	1	10/17/2020 20:44
Chloroethane	ND	0.50	1	10/17/2020 20:44
Chloroform	ND	0.50	1	10/17/2020 20:44
Chloromethane	ND	0.50	1	10/17/2020 20:44
2-Chlorotoluene	ND	0.50	1	10/17/2020 20:44
4-Chlorotoluene	ND	0.50	1	10/17/2020 20:44
Dibromochloromethane	ND	0.50	1	10/17/2020 20:44
1,2-Dibromo-3-chloropropane	ND	1.0	1	10/17/2020 20:44
1,2-Dibromoethane (EDB)	ND	0.50	1	10/17/2020 20:44
Dibromomethane	ND	0.50	1	10/17/2020 20:44
1,2-Dichlorobenzene	ND	0.50	1	10/17/2020 20:44
1,3-Dichlorobenzene	ND	0.50	1	10/17/2020 20:44
1,4-Dichlorobenzene	ND	0.50	1	10/17/2020 20:44
Dichlorodifluoromethane	ND	0.50	1	10/17/2020 20:44
1,1-Dichloroethane	ND	0.50	1	10/17/2020 20:44
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/17/2020 20:44
1,1-Dichloroethene	ND	0.50	1	10/17/2020 20:44
cis-1,2-Dichloroethene	ND	0.50	1	10/17/2020 20:44
trans-1,2-Dichloroethene	ND	0.50	1	10/17/2020 20:44
1,2-Dichloropropane	ND	0.50	1	10/17/2020 20:44
1,3-Dichloropropane	ND	0.50	1	10/17/2020 20:44
2,2-Dichloropropane	ND	0.50	1	10/17/2020 20:44

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	2010779-004B	Water	10/15/2020 08:30	GC38 10172022.D	207524

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/17/2020 20:44
cis-1,3-Dichloropropene	ND	0.50	1	10/17/2020 20:44
trans-1,3-Dichloropropene	ND	0.50	1	10/17/2020 20:44
Diisopropyl ether (DIPE)	ND	0.50	1	10/17/2020 20:44
Ethylbenzene	ND	0.50	1	10/17/2020 20:44
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/17/2020 20:44
Freon 113	ND	0.50	1	10/17/2020 20:44
Hexachlorobutadiene	ND	0.50	1	10/17/2020 20:44
Hexachloroethane	ND	0.50	1	10/17/2020 20:44
2-Hexanone	ND	1.0	1	10/17/2020 20:44
Isopropylbenzene	ND	0.50	1	10/17/2020 20:44
4-Isopropyl toluene	ND	0.50	1	10/17/2020 20:44
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/17/2020 20:44
Methylene chloride	ND	2.0	1	10/17/2020 20:44
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/17/2020 20:44
Naphthalene	ND	1.0	1	10/17/2020 20:44
n-Propyl benzene	ND	0.50	1	10/17/2020 20:44
Styrene	ND	2.0	1	10/17/2020 20:44
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/17/2020 20:44
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/17/2020 20:44
Tetrachloroethene	ND	0.50	1	10/17/2020 20:44
Toluene	ND	0.50	1	10/17/2020 20:44
1,2,3-Trichlorobenzene	ND	0.50	1	10/17/2020 20:44
1,2,4-Trichlorobenzene	ND	0.50	1	10/17/2020 20:44
1,1,1-Trichloroethane	ND	0.50	1	10/17/2020 20:44
1,1,2-Trichloroethane	ND	0.50	1	10/17/2020 20:44
Trichloroethene	ND	0.50	1	10/17/2020 20:44
Trichlorofluoromethane	ND	0.50	1	10/17/2020 20:44
1,2,3-Trichloropropane	ND	0.50	1	10/17/2020 20:44
1,2,4-Trimethylbenzene	**0.72**	0.50	1	10/17/2020 20:44
1,3,5-Trimethylbenzene	ND	0.50	1	10/17/2020 20:44
Vinyl Chloride	ND	0.50	1	10/17/2020 20:44
m,p-Xylene	ND	0.50	1	10/17/2020 20:44
o-Xylene	**1.5**	0.50	1	10/17/2020 20:44
Xylenes, Total	**1.5**	0.50	1	10/17/2020 20:44

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020	**Analytical Method:**	SW8260B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	**2010779-004B**	**Water**	**10/15/2020 08:30**	**GC38 10172022.D**	**207524**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	93	78-112		10/17/2020 20:44
Toluene-d8	100	82-109		10/17/2020 20:44
4-BFB	94	63-121		10/17/2020 20:44

Analyst(s): TW

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020-10/21/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	04.00163392; Peerless	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	**2010779-001A**	**Water**	**10/15/2020 09:27**	**GC3 10202035.D**	**207630**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	**3100**	50	1	10/21/2020 06:18
MTBE	---	1.0	1	10/21/2020 06:18
Benzene	---	0.50	1	10/21/2020 06:18
Toluene	---	0.50	1	10/21/2020 06:18
Ethylbenzene	---	0.50	1	10/21/2020 06:18
m,p-Xylene	---	1.0	1	10/21/2020 06:18
o-Xylene	---	0.50	1	10/21/2020 06:18
Xylenes	---	0.50	1	10/21/2020 06:18

Surrogates	REC (%)	Limits	
aaa-TFT	91	76-115	10/21/2020 06:18

Analyst(s): IA Analytical Comments: d6,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	**2010779-002A**	**Water**	**10/15/2020 09:08**	**GC3 10172012.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/17/2020 16:16
MTBE	---	1.0	1	10/17/2020 16:16
Benzene	---	0.50	1	10/17/2020 16:16
Toluene	---	0.50	1	10/17/2020 16:16
Ethylbenzene	---	0.50	1	10/17/2020 16:16
m,p-Xylene	---	1.0	1	10/17/2020 16:16
o-Xylene	---	0.50	1	10/17/2020 16:16
Xylenes	---	0.50	1	10/17/2020 16:16

Surrogates	REC (%)	Limits	
aaa-TFT	88	76-115	10/17/2020 16:16

Analyst(s): IA

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW5030B
Date Prepared:	10/17/2020-10/21/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	04.00163392; Peerless	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	**2010779-003A**	**Water**	**10/15/2020 08:47**	**GC3 10192036.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/20/2020 07:11
MTBE	---	1.0	1	10/20/2020 07:11
Benzene	---	0.50	1	10/20/2020 07:11
Toluene	---	0.50	1	10/20/2020 07:11
Ethylbenzene	---	0.50	1	10/20/2020 07:11
m,p-Xylene	---	1.0	1	10/20/2020 07:11
o-Xylene	---	0.50	1	10/20/2020 07:11
Xylenes	---	0.50	1	10/20/2020 07:11

Surrogates	REC (%)	Limits	
aaa-TFT	91	76-115	10/20/2020 07:11

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	**2010779-004A**	**Water**	**10/15/2020 08:30**	**GC3 10172014.D**	**207536**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	**4700**	50	1	10/17/2020 17:20
MTBE	---	1.0	1	10/17/2020 17:20
Benzene	---	0.50	1	10/17/2020 17:20
Toluene	---	0.50	1	10/17/2020 17:20
Ethylbenzene	---	0.50	1	10/17/2020 17:20
m,p-Xylene	---	1.0	1	10/17/2020 17:20
o-Xylene	---	0.50	1	10/17/2020 17:20
Xylenes	---	0.50	1	10/17/2020 17:20

Surrogates	REC (%)	Limits	
aaa-TFT	89	76-115	10/17/2020 17:20

Analyst(s): IA Analytical Comments: d7

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C/3630C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8015B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010779-001A	Water	10/15/2020 09:27	GC11A 10162036.D	207475

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1100**	50	1	10/17/2020 09:08
TPH-Motor Oil (C18-C36)	**530**	250	1	10/17/2020 09:08

Surrogates	REC (%)	Limits	
C9	103	70-130	10/17/2020 09:08

Analyst(s): JIS Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010779-002A	Water	10/15/2020 09:08	GC31B 10202029.D	207475

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**260**	50	1	10/20/2020 18:43
TPH-Motor Oil (C18-C36)	ND	250	1	10/20/2020 18:43

Surrogates	REC (%)	Limits	
C9	95	70-130	10/20/2020 18:43

Analyst(s): JIS Analytical Comments: e2/e6

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	2010779-003A	Water	10/15/2020 08:47	GC11A 10162048.D	207475

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**120**	50	1	10/17/2020 13:01
TPH-Motor Oil (C18-C36)	ND	250	1	10/17/2020 13:01

Surrogates	REC (%)	Limits	
C9	100	70-130	10/17/2020 13:01

Analyst(s): JIS Analytical Comments: e2

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Received:	10/15/2020 11:40	**Extraction Method:**	SW3510C/3630C
Date Prepared:	10/15/2020	**Analytical Method:**	SW8015B
Project:	04.00163392; Peerless	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	**2010779-004A**	**Water**	**10/15/2020 08:30**	**GC31B 10202033.D**	**207475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**27,000**	100	2	10/20/2020 20:03
TPH-Motor Oil (C18-C36)	ND	500	2	10/20/2020 20:03

Surrogates	REC (%)	Limits	
C9	81	70-130	10/20/2020 20:03

Analyst(s): JIS Analytical Comments: e2,a3

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/15/2020	**BatchID:**	207476
Date Analyzed:	10/16/2020 - 10/19/2020	**Extraction Method:**	SW3510C
Instrument:	GC20	**Analytical Method:**	SW8081A
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207476

QC Summary Report for SW8081A

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00160	0.00500	-	-	-
a-BHC	ND	0.00250	0.0100	-	-	-
b-BHC	ND	0.00120	0.00500	-	-	-
d-BHC	ND	0.00120	0.00500	-	-	-
g-BHC	ND	0.00190	0.0200	-	-	-
Chlordane (Technical)	ND	0.0260	0.100	-	-	-
a-Chlordane	ND	0.00190	0.0500	-	-	-
g-Chlordane	ND	0.00220	0.0500	-	-	-
p,p-DDD	ND	0.00230	0.0100	-	-	-
p,p-DDE	ND	0.00250	0.0100	-	-	-
p,p-DDT	ND	0.00430	0.0100	-	-	-
Dieldrin	ND	0.00290	0.0100	-	-	-
Endosulfan I	ND	0.00220	0.0200	-	-	-
Endosulfan II	ND	0.00490	0.0200	-	-	-
Endosulfan sulfate	ND	0.00260	0.0500	-	-	-
Endrin	ND	0.00340	0.0100	-	-	-
Endrin aldehyde	ND	0.00360	0.0500	-	-	-
Endrin ketone	ND	0.00390	0.0500	-	-	-
Heptachlor	ND	0.00280	0.0100	-	-	-
Heptachlor epoxide	ND	0.00300	0.0100	-	-	-
Hexachlorobenzene	ND	0.00660	0.500	-	-	-
Hexachlorocyclopentadiene	ND	0.00520	1.00	-	-	-
Methoxychlor	ND	0.00480	0.100	-	-	-
Toxaphene	ND	0.120	0.500	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	1.18			1.25	95	61-139

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/15/2020	**BatchID:**	207476
Date Analyzed:	10/16/2020 - 10/19/2020	**Extraction Method:**	SW3510C
Instrument:	GC20	**Analytical Method:**	SW8081A
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207476

QC Summary Report for SW8081A

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	1.22	1.20	1.25	97	96	69-156	1.62	20
a-BHC	1.26	1.26	1.25	101	101	90-160	0.363	20
b-BHC	1.19	1.16	1.25	95	93	56-143	2.09	20
d-BHC	1.19	1.18	1.25	95	94	76-151	1.49	20
g-BHC	1.33	1.31	1.25	106	105	93-150	1.44	20
a-Chlordane	1.20	1.20	1.25	96	96	72-148	0.0411	20
g-Chlordane	1.17	1.17	1.25	93	93	77-151	0.0332	20
p,p-DDD	1.32	1.33	1.25	106	106	76-154	0.111	20
p,p-DDE	1.20	1.20	1.25	96	96	74-157	0.0935	20
p,p-DDT	1.28	1.25	1.25	102	100	78-149	2.23	20
Dieldrin	1.38	1.36	1.25	110	108	89-171	1.88	20
Endosulfan I	1.17	1.17	1.25	93	93	89-147	0.0796	20
Endosulfan II	1.15	1.13	1.25	92	91	70-143	1.16	20
Endosulfan sulfate	1.08	1.07	1.25	86	86	75-139	1.10	20
Endrin	1.24	1.21	1.25	99	97	84-162	1.89	20
Endrin aldehyde	1.14	1.04	1.25	91	84	25-118	8.96	20
Endrin ketone	1.08	1.06	1.25	86	85	73-138	1.56	20
Heptachlor	1.40	1.37	1.25	112	110	86-159	1.76	20
Heptachlor epoxide	1.13	1.11	1.25	90	89	72-144	1.53	20
Hexachlorobenzene	1.11	1.12	1.25	89	89	63-147	0.713	20
Hexachlorocyclopentadiene	1.02	1.10	1.25	81	88	27-155	8.42	20
Methoxychlor	1.40	1.35	1.25	112	108	76-155	3.54	20
Surrogate Recovery								
Decachlorobiphenyl	1.11	1.10	1.25	89	88	61-139	1.18	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0610	0.500	-	-	-
Benzene	ND	0.0360	0.500	-	-	-
Bromobenzene	ND	0.0970	0.500	-	-	-
Bromochloromethane	ND	0.0720	0.500	-	-	-
Bromodichloromethane	ND	0.0270	0.500	-	-	-
Bromoform	ND	0.210	0.500	-	-	-
Bromomethane	ND	0.270	0.500	-	-	-
2-Butanone (MEK)	ND	2.10	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	2.20	5.00	-	-	-
n-Butyl benzene	ND	0.0830	0.500	-	-	-
sec-Butyl benzene	ND	0.0750	0.500	-	-	-
tert-Butyl benzene	ND	0.0920	0.500	-	-	-
Carbon Disulfide	ND	0.120	0.500	-	-	-
Carbon Tetrachloride	ND	0.0470	0.500	-	-	-
Chlorobenzene	ND	0.0870	0.500	-	-	-
Chloroethane	ND	0.160	0.500	-	-	-
Chloroform	ND	0.0850	0.500	-	-	-
Chloromethane	ND	0.0960	0.500	-	-	-
2-Chlorotoluene	ND	0.0890	0.500	-	-	-
4-Chlorotoluene	ND	0.0890	0.500	-	-	-
Dibromochloromethane	ND	0.0830	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.160	1.00	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0750	0.500	-	-	-
Dibromomethane	ND	0.0510	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0700	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0840	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0680	0.500	-	-	-
Dichlorodifluoromethane	ND	0.140	0.500	-	-	-
1,1-Dichloroethane	ND	0.0720	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0180	0.500	-	-	-
1,1-Dichloroethene	ND	0.0150	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0690	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.110	0.500	-	-	-
1,2-Dichloropropane	ND	0.0110	0.500	-	-	-
1,3-Dichloropropane	ND	0.0740	0.500	-	-	-
2,2-Dichloropropane	ND	0.130	0.500	-	-	-
1,1-Dichloropropene	ND	0.0850	0.500	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0660	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0930	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0710	0.500	-	-	-
Ethylbenzene	ND	0.0810	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0630	0.500	-	-	-
Freon 113	ND	0.0930	0.500	-	-	-
Hexachlorobutadiene	ND	0.130	0.500	-	-	-
Hexachloroethane	ND	0.0360	0.500	-	-	-
2-Hexanone	ND	0.360	1.00	-	-	-
Isopropylbenzene	ND	0.0900	0.500	-	-	-
4-Isopropyl toluene	ND	0.0610	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.120	0.500	-	-	-
Methylene chloride	ND	1.00	2.00	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.140	0.500	-	-	-
Naphthalene	ND	0.430	1.00	-	-	-
n-Propyl benzene	ND	0.0900	0.500	-	-	-
Styrene	ND	0.470	2.00	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0820	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0350	0.500	-	-	-
Tetrachloroethene	ND	0.0790	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.300	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.200	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0740	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.150	0.500	-	-	-
Trichloroethene	ND	0.190	0.500	-	-	-
Trichlorofluoromethane	ND	0.0980	0.500	-	-	-
1,2,3-Trichloropropane	ND	0.0250	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0680	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.0820	0.500	-	-	-
Vinyl Chloride	ND	0.0520	0.500	-	-	-
m,p-Xylene	ND	0.150	0.500	-	-	-
o-Xylene	ND	0.0700	0.500	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	24.4			25	98	76-110
Toluene-d8	27.6			25	110	84-111
4-BFB	2.48			2.5	99	64-121

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	38.6	38.4	40	97	96	32-138	0.516	20
tert-Amyl methyl ether (TAME)	3.72	3.73	4	93	93	62-119	0.315	20
Benzene	3.91	3.83	4	98	96	71-126	2.04	20
Bromobenzene	3.74	3.61	4	93	90	66-117	3.41	20
Bromochloromethane	3.73	3.83	4	93	96	67-124	2.41	20
Bromodichloromethane	3.86	3.80	4	97	95	63-119	1.50	20
Bromoform	3.61	3.65	4	90	91	46-117	0.955	20
Bromomethane	4.28	4.05	4	107	101	32-171	5.59	20
2-Butanone (MEK)	14.3	15.1	16	90	94	48-136	5.06	20
t-Butyl alcohol (TBA)	13.6	12.8	16	85	80	40-131	5.46	20
n-Butyl benzene	4.03	4.03	4	101	101	75-125	0.0595	20
sec-Butyl benzene	3.57	3.59	4	89	90	72-120	0.491	20
tert-Butyl benzene	3.27	3.32	4	82	83	63-118	1.36	20
Carbon Disulfide	3.71	3.61	4	93	90	64-126	2.71	20
Carbon Tetrachloride	4.13	4.10	4	103	102	67-122	0.804	20
Chlorobenzene	3.82	3.80	4	95	95	71-117	0.563	20
Chloroethane	3.55	3.40	4	89	85	53-136	4.29	20
Chloroform	4.24	4.15	4	106	104	67-126	1.99	20
Chloromethane	3.73	3.39	4	93	85	42-148	9.45	20
2-Chlorotoluene	3.56	3.56	4	89	89	70-117	0.247	20
4-Chlorotoluene	3.74	3.63	4	93	91	67-117	2.84	20
Dibromochloromethane	3.71	3.69	4	93	92	52-120	0.430	20
1,2-Dibromo-3-chloropropane	1.72	1.70	2	86	85	38-128	1.29	20
1,2-Dibromoethane (EDB)	1.86	1.84	2	93	92	58-117	1.24	20
Dibromomethane	3.50	3.42	4	88	86	66-120	2.28	20
1,2-Dichlorobenzene	4.10	4.10	4	103	102	71-117	0.0390	20
1,3-Dichlorobenzene	3.77	3.77	4	94	94	74-116	0.0769	20
1,4-Dichlorobenzene	3.94	3.85	4	98	96	71-115	2.15	20
Dichlorodifluoromethane	3.27	3.03	4	82	76	29-145	7.64	20
1,1-Dichloroethane	4.02	3.97	4	101	99	68-128	1.23	20
1,2-Dichloroethane (1,2-DCA)	4.37	4.31	4	109	108	61-123	1.23	20
1,1-Dichloroethene	3.88	3.79	4	97	95	65-126	2.40	20
cis-1,2-Dichloroethene	3.67	3.59	4	92	90	71-122	2.23	20
trans-1,2-Dichloroethene	3.74	3.68	4	94	92	70-126	1.84	20
1,2-Dichloropropane	3.68	3.65	4	92	91	67-124	1.07	20
1,3-Dichloropropane	3.65	3.66	4	91	92	65-120	0.169	20
2,2-Dichloropropane	4.57	4.47	4	114	112	71-127	2.28	20
1,1-Dichloropropene	3.88	3.85	4	97	96	69-122	0.938	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	3.89	3.87	4	97	97	63-119	0.525	20
trans-1,3-Dichloropropene	4.03	4.05	4	101	101	63-116	0.400	20
Diisopropyl ether (DIPE)	4.22	4.21	4	106	105	64-128	0.231	20
Ethylbenzene	3.88	3.86	4	97	96	69-120	0.676	20
Ethyl tert-butyl ether (ETBE)	4.05	4.08	4	101	102	63-120	0.967	20
Freon 113	3.70	3.67	4	93	92	67-126	0.780	20
Hexachlorobutadiene	3.68	3.69	4	92	92	50-140	0.246	20
Hexachloroethane	3.30	3.28	4	82	82	52-122	0.457	20
2-Hexanone	2.78	2.83	4	70	71	39-121	1.86	20
Isopropylbenzene	3.60	3.58	4	90	89	69-120	0.654	20
4-Isopropyl toluene	3.61	3.63	4	90	91	72-122	0.730	20
Methyl-t-butyl ether (MTBE)	3.97	4.00	4	99	100	60-121	0.690	20
Methylene chloride	3.68	3.53	4	92	88	40-148	4.12	20
4-Methyl-2-pentanone (MIBK)	2.64	2.88	4	66	72	48-115	8.80	20
Naphthalene	4.11	3.96	4	103	99	62-124	3.93	20
n-Propyl benzene	3.46	3.44	4	87	86	70-118	0.696	20
Styrene	3.74	3.73	4	93	93	57-118	0.122	20
1,1,1,2-Tetrachloroethane	3.68	3.78	4	92	95	63-117	2.73	20
1,1,2,2-Tetrachloroethane	3.12	3.09	4	78	77	60-116	0.957	20
Tetrachloroethene	3.90	3.86	4	97	96	60-131	1.11	20
Toluene	3.68	3.64	4	92	91	67-115	1.14	20
1,2,3-Trichlorobenzene	4.35	4.17	4	109	104	60-128	4.13	20
1,2,4-Trichlorobenzene	4.09	3.96	4	102	99	61-133	3.29	20
1,1,1-Trichloroethane	3.97	3.91	4	99	98	67-124	1.34	20
1,1,2-Trichloroethane	3.83	3.82	4	96	95	62-117	0.365	20
Trichloroethene	3.73	3.66	4	93	91	69-120	2.11	20
Trichlorofluoromethane	4.02	4.02	4	100	101	60-134	0.120	20
1,2,3-Trichloropropane	1.78	1.79	2	89	90	56-120	0.557	20
1,2,4-Trimethylbenzene	4.00	4.00	4	100	100	67-124	0.119	20
1,3,5-Trimethylbenzene	3.94	3.92	4	98	98	69-122	0.477	20
Vinyl Chloride	1.84	1.73	2	92	87	52-145	6.15	20
m,p-Xylene	7.35	7.32	8	92	91	67-119	0.384	20
o-Xylene	3.84	3.86	4	96	96	68-120	0.611	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/16/2020	**BatchID:**	207524
Date Analyzed:	10/16/2020	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207524

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	26.2	25.7	25	105	103	76-110	2.07	20
Toluene-d8	27.6	27.4	25	110	110	84-111	0.571	20
4-BFB	2.53	2.55	2.5	101	102	64-121	0.676	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/17/2020 - 10/19/2020	**BatchID:**	207536
Date Analyzed:	10/17/2020 - 10/19/2020	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207536

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	20.0	50.0	-	-	-
MTBE	ND	0.530	1.00	-	-	-
Benzene	ND	0.200	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
Ethylbenzene	ND	0.230	0.500	-	-	-
m,p-Xylene	ND	0.400	1.00	-	-	-
o-Xylene	ND	0.130	0.500	-	-	-
Surrogate Recovery						
aaa-TFT	8.81			10	88	74-117

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	57.9	57.7	60	97	96	78-116	0.424	20
MTBE	10.3	9.80	10	103	98	72-122	5.29	20
Benzene	9.90	9.53	10	99	95	81-123	3.82	20
Toluene	10.3	9.98	10	103	100	83-129	3.56	20
Ethylbenzene	10.1	9.84	10	101	98	88-126	2.84	20
m,p-Xylene	20.3	19.7	20	102	99	80-120	2.95	20
o-Xylene	9.85	9.58	10	98	96	80-120	2.78	20
Surrogate Recovery								
aaa-TFT	8.83	8.81	10	88	88	74-117	0.208	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/19/2020 - 10/20/2020	**BatchID:**	207630
Date Analyzed:	10/19/2020 - 10/20/2020	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207630

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	20.0	50.0	-	-	-
MTBE	ND	0.530	1.00	-	-	-
Benzene	ND	0.200	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
Ethylbenzene	ND	0.230	0.500	-	-	-
m,p-Xylene	ND	0.400	1.00	-	-	-
o-Xylene	ND	0.130	0.500	-	-	-
Surrogate Recovery						
aaa-TFT	8.97			10	90	74-117

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	61.6	55.2	60	103	92	78-116	11.1	20
MTBE	9.62	10.1	10	96	101	72-122	4.84	20
Benzene	9.99	10.2	10	100	102	81-123	1.88	20
Toluene	10.7	10.5	10	107	105	83-129	1.54	20
Ethylbenzene	10.2	10.4	10	102	104	88-126	1.50	20
m,p-Xylene	20.6	20.8	20	103	104	80-120	1.39	20
o-Xylene	9.74	10.0	10	97	100	80-120	2.80	20
Surrogate Recovery								
aaa-TFT	9.57	9.36	10	96	94	74-117	2.20	20

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010779
Date Prepared:	10/15/2020	**BatchID:**	207475
Date Analyzed:	10/17/2020 - 10/20/2020	**Extraction Method:**	SW3510C/3630C
Instrument:	GC11A, GC6A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207475

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	30.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	120	250	-	-	-
Surrogate Recovery						
C9	550			625	88	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1120	1000	110	112	70-130	2.02	20
Surrogate Recovery								
C9	656	654	625	105	105	70-130	0.303	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2010779 **ClientCode: FUL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
(925) 949-7140 FAX: (925) 949-7070

Email: kemery@fugro.com
cc/3rd Party:
PO:
Project: 04.00163392; Peerless

Bill to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
kemery@fugro.com

Requested TAT: 5 days;

Date Received: **10/15/2020**
Date Logged: **10/15/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2010779-001	S-7	Water	10/15/2020 09:27	☐	C	B	A	A	A							
2010779-002	S-8	Water	10/15/2020 09:08	☐	C	B	A	A	A							
2010779-003	S-9	Water	10/15/2020 08:47	☐	C	B	A	A	A							
2010779-004	S-10	Water	10/15/2020 08:30	☐	C	B	A	A	A							

Test Legend:

1	8081_W	2	8260B_W	3	G-MBTEX_W	4	PRDisposal Fee
5	TPH(DMO)WSG_W	6		7		8	
9		10		11		12	

Project Manager: Rosa Venegas **Prepared by: Tina Perez**

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup Multi RangeWSG_W.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments

Work Order: 2010779
QC Level: LEVEL 2
Date Logged: 10/15/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010779-001A	S-7	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/15/2020 9:27	5 days	Present	☐	
2010779-001B	S-7	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/15/2020 9:27	5 days	Present	☐	
2010779-001C	S-7	Water	SW8081A (OC Pesticides)	2	aVOA, Unpres	☐	10/15/2020 9:27	5 days	Present	☐	
2010779-002A	S-8	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/15/2020 9:08	5 days	Trace	☐	
2010779-002B	S-8	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/15/2020 9:08	5 days	Trace	☐	
2010779-002C	S-8	Water	SW8081A (OC Pesticides)	2	aVOA, Unpres	☐	10/15/2020 9:08	5 days	Trace	☐	
2010779-003A	S-9	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/15/2020 8:47	5 days	Trace	☐	
2010779-003B	S-9	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/15/2020 8:47	5 days	Trace	☐	
2010779-003C	S-9	Water	SW8081A (OC Pesticides)	2	aVOA, Unpres	☐	10/15/2020 8:47	5 days	Trace	☐	
2010779-004A	S-10	Water	Multi-Range TPH w/ S.G. Clean-Up	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/15/2020 8:30	5 days	Present	☐	
2010779-004B	S-10	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/15/2020 8:30	5 days	Present	☐	
2010779-004C	S-10	Water	SW8081A (OC Pesticides)	2	aVOA, Unpres	☐	10/15/2020 8:30	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

2010779

FF-02 CHAIN OF CUSTODY

PROJECT NAME: Peerless

PROJECT NO.: 04.00163392 LAB: McCampbell

PROJECT CONTACT: Karen Emery TURNAROUND: 5 day

SAMPLED BY: K.Emery

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	Ewm: HCL	Ewm: H_2SO_4	Ewm: HNO_3	Ewm: ICE	Ewm: OTHER	Ewm: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	TPHg/TPHd/TPHmo with Silica Gel Cleanup	VOCs (8260)	PAH's/Semivolatiles/Pentachlorophenol & Naphthalene (8270)	Organochlorine Pesticides including Chlordane (8081)
†	S-7	X			X	X						X			10	15	20	0927		X	X	X	X
(†)	S-8	X			X	X						X			10	15	20	0905		X	X	X	X
(†)	S-9	X			X	X						X			10	15	20	0847		X	X	X	X
†	S-10	X			X	X						X			10	15	20	0830		X	X	X	X

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Karen Emery	11:40 10/15/20	[signature]	11:40 10/15/2020

COMMENTS & NOTES:

4.4°C Wet

FUGRO USA LAND, INC.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
Tel: 925.949.7100 Fax: 925.949.7070

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Sample Receipt Checklist

Client Name: **Fugro USA Land, Inc.**
Project: **04.00163392; Peerless**

WorkOrder №: **2010779** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **10/15/2020 11:40**
Date Logged: **10/15/2020**
Received by: Tina Perez
Logged by: Tina Perez

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

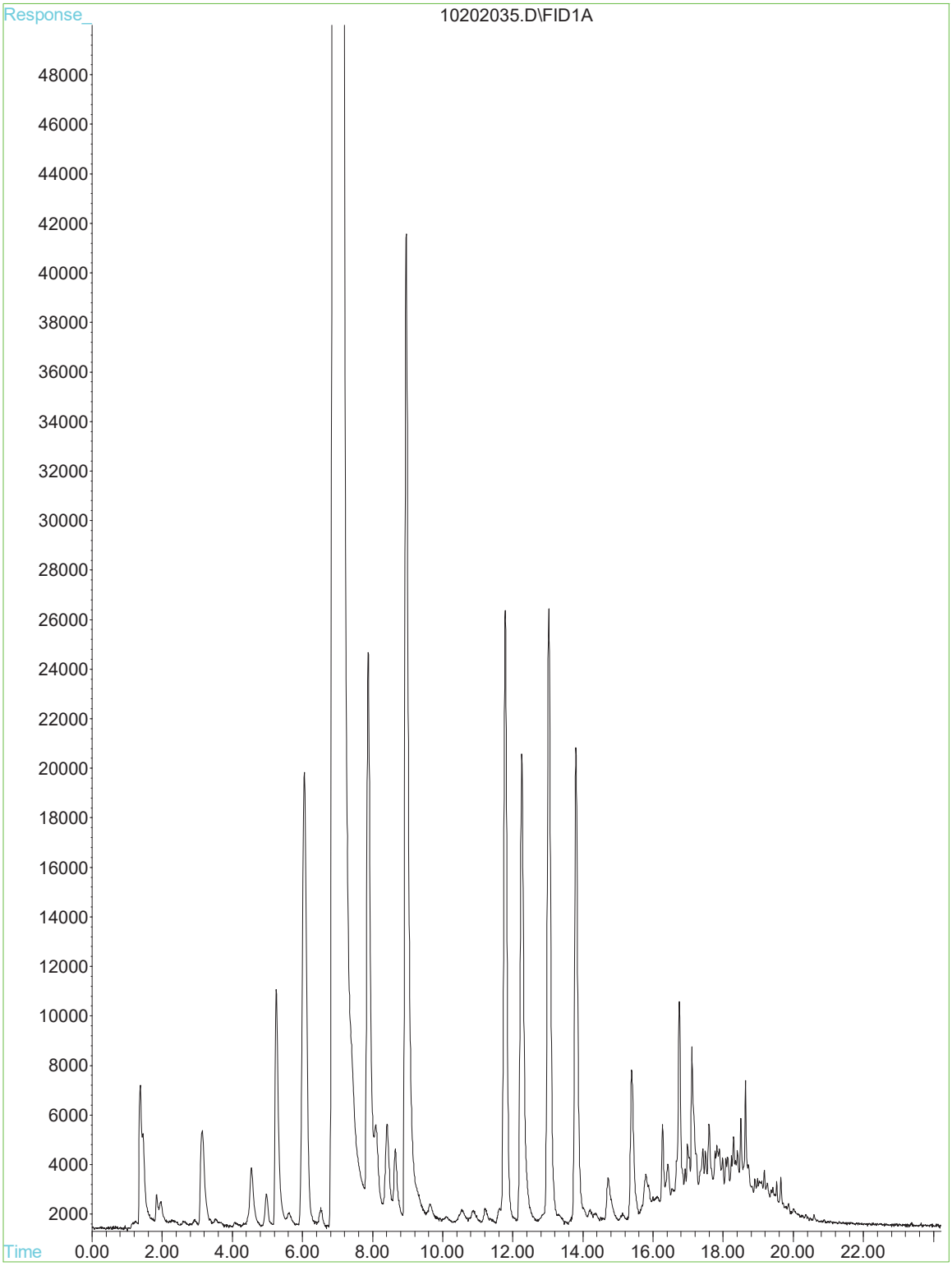
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

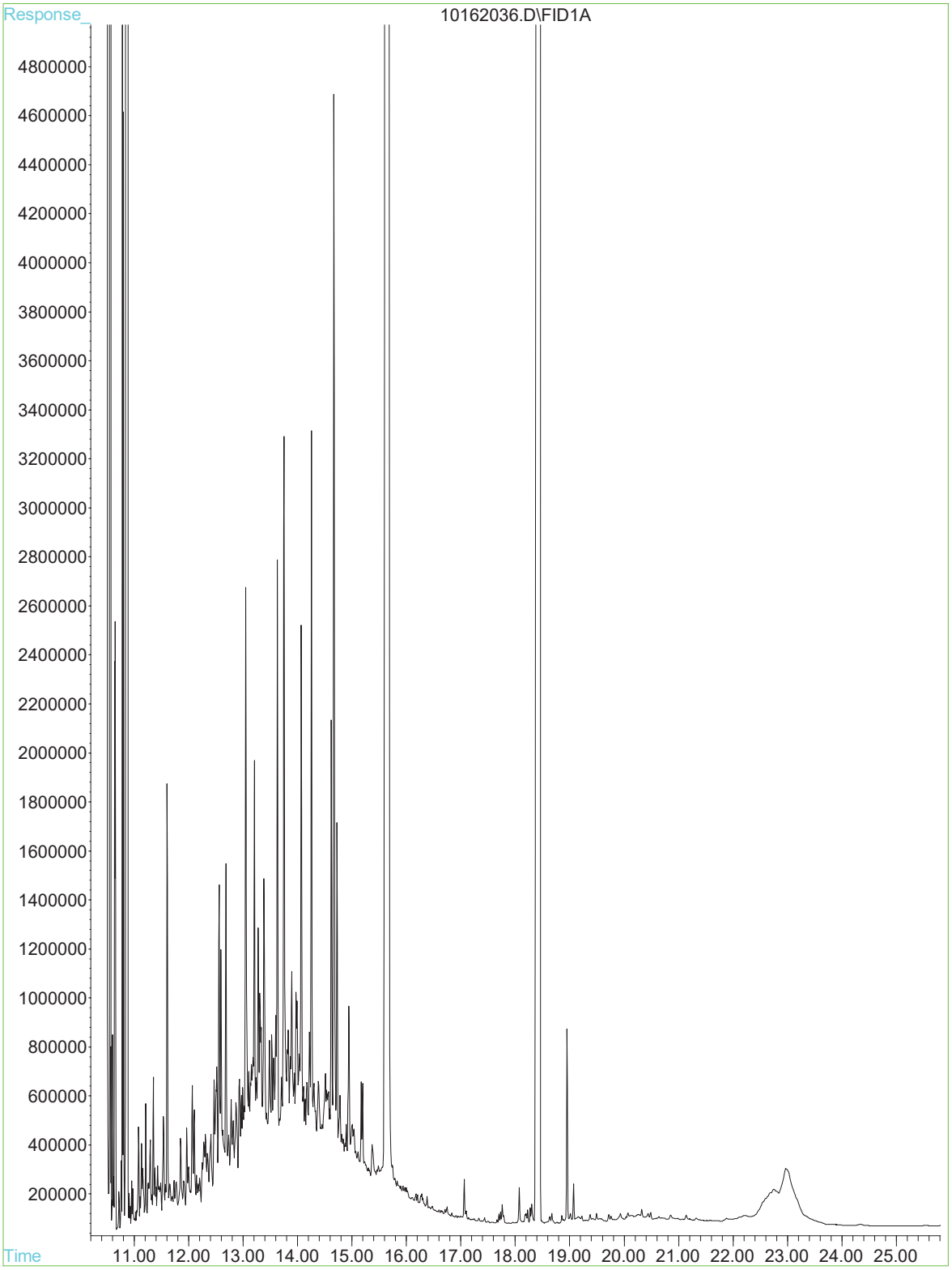
All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 4.4°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA	☐
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:

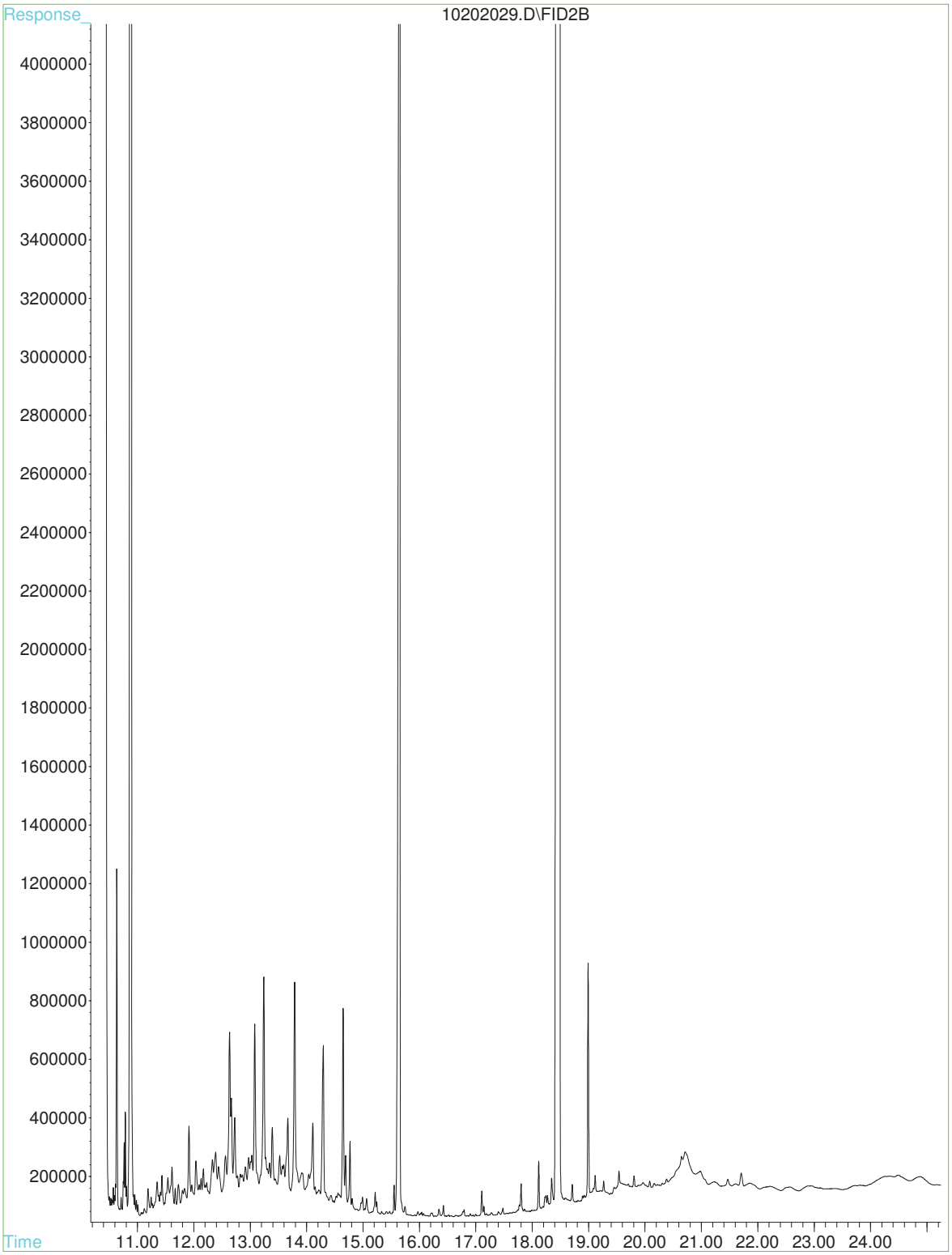
File : D:\HPCHEM\GC3\DATA\10202035.D
Operator : IRINA
Acquired : 21 Oct 2020 6:18 am using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-001A W RR
Misc Info : G-MBTEX_W
Vial Number: 35



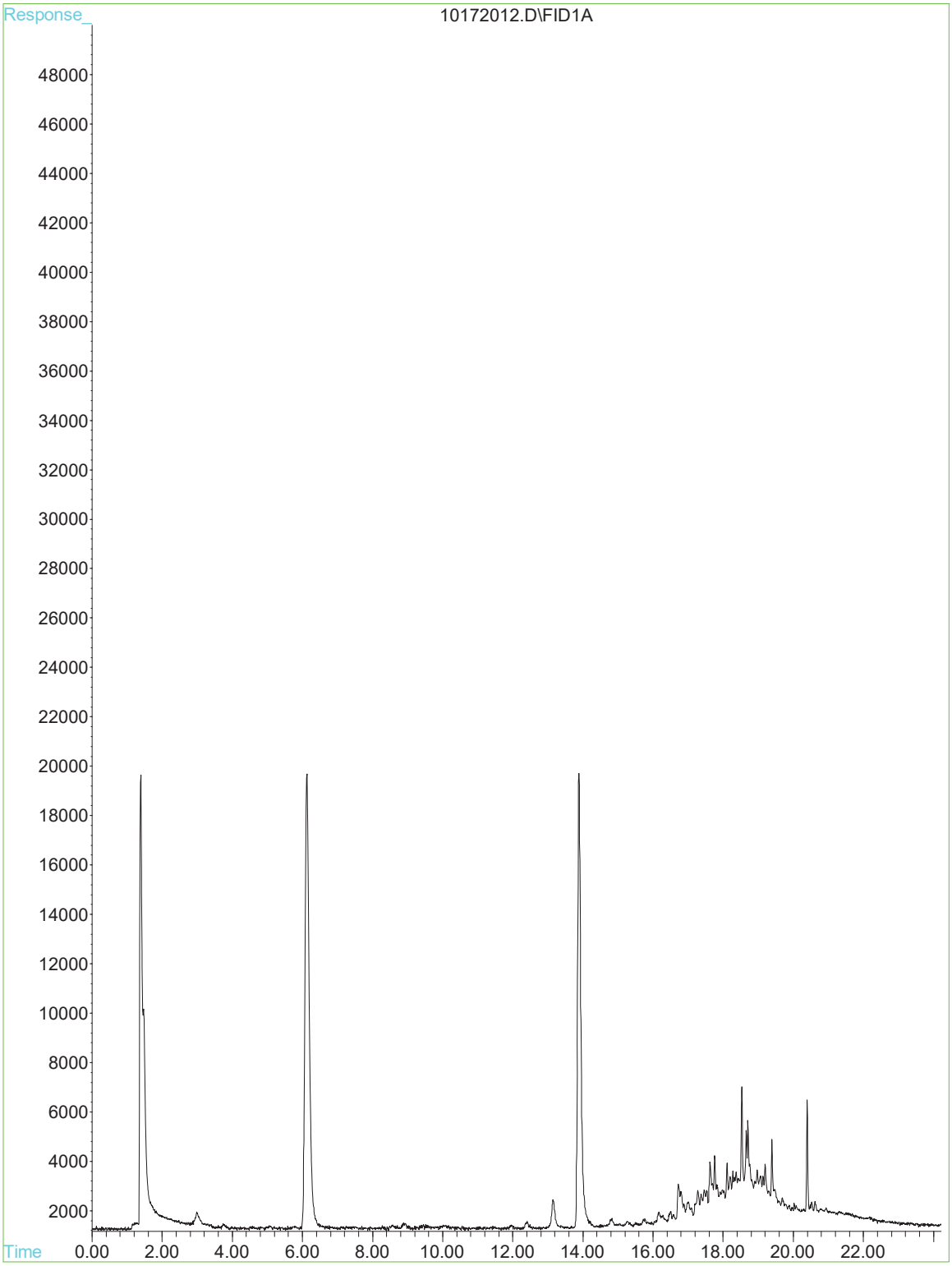
File : D:\HPCHEM\GC11\DATAA\10162036.D
Operator : JILLIAN
Acquired : 17 Oct 2020 9:08 am using AcqMethod GC11A_B7.M
Instrument : GC-11
Sample Name: 2010779-001A W WSG
Misc Info : TPHSG
Vial Number: 18



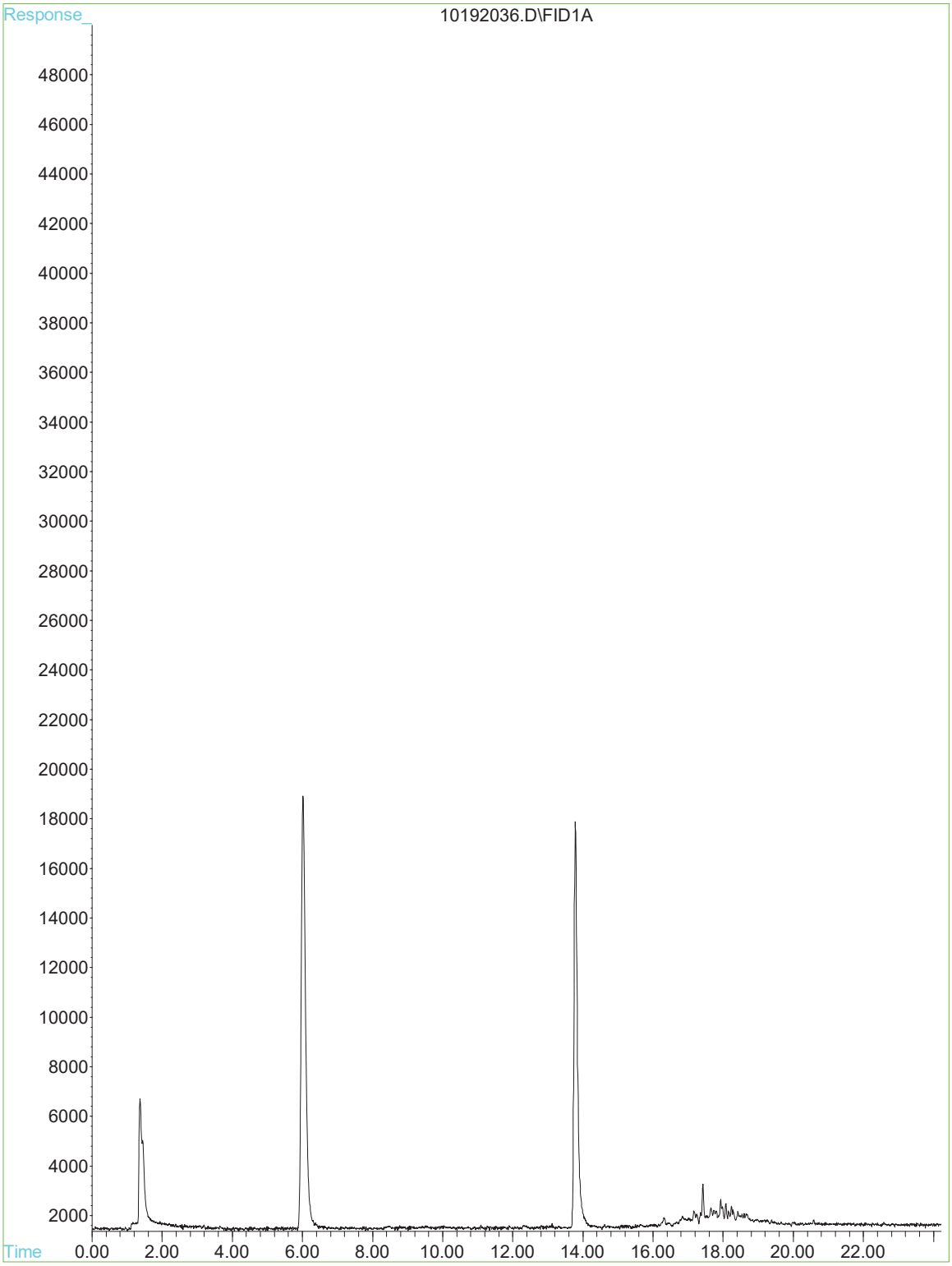
File : D:\HPCHEM\GC31\DATAB\10202029.D
Operator : Jillian
Acquired : 20 Oct 2020 6:43 pm using AcqMethod GC31A_C1.M
Instrument : GC31
Sample Name: 2010779-002A W WSG RR
Misc Info : TPHSG TPHSG
Vial Number: 65



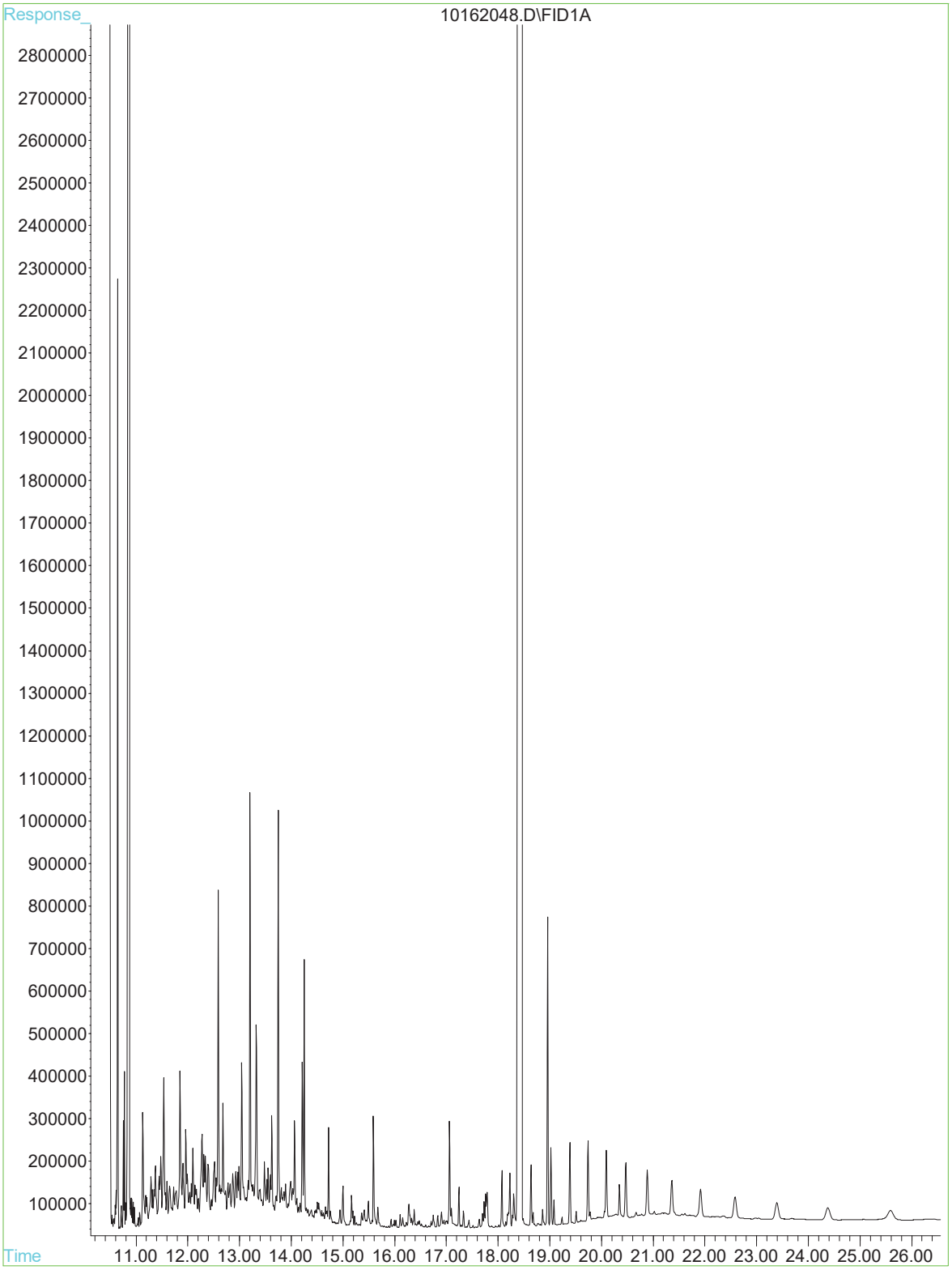
File : D:\HPCHEM\GC3\DATA\10172012.D
Operator : IRINA
Acquired : 17 Oct 2020 4:16 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-002A W
Misc Info : G-MBTEX_W
Vial Number: 12



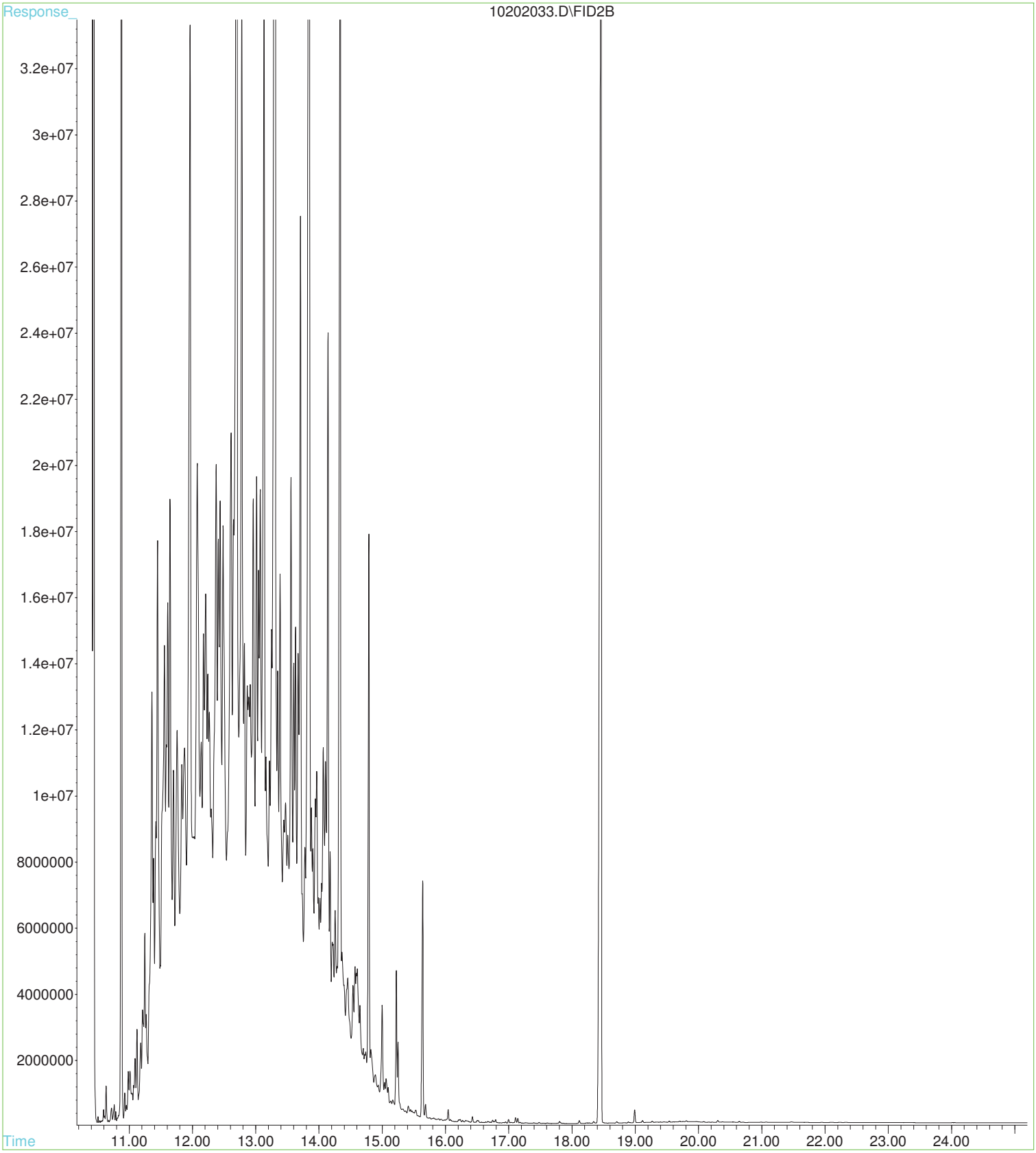
File : D:\HPCHEM\GC3\DATA\10192036.D
Operator : IRINA
Acquired : 20 Oct 2020 7:11 am using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-003A RR W
Misc Info : G-MBTEX_W
Vial Number: 36



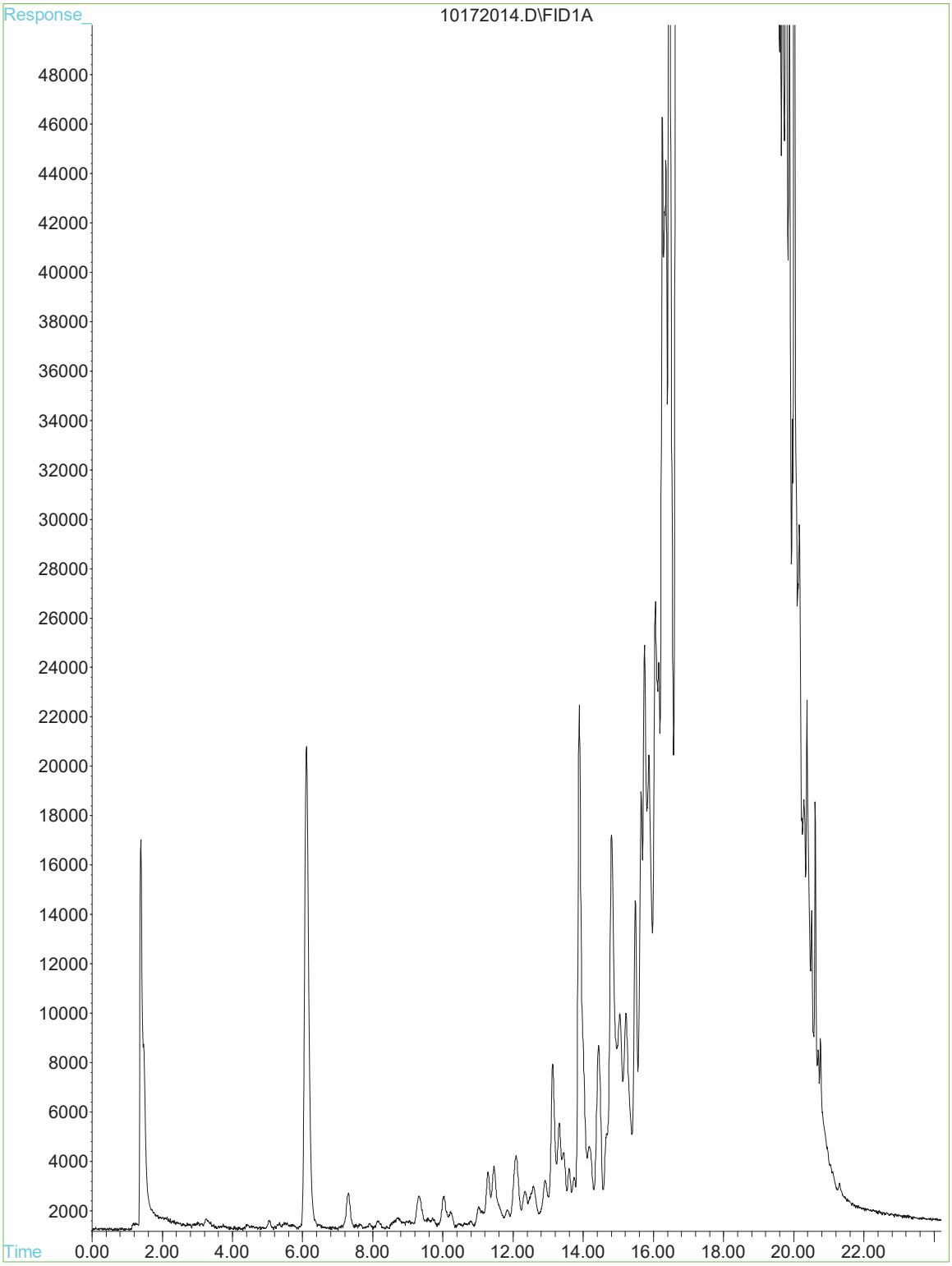
File : D:\HPCHEM\GC11\DATAA\10162048.D
Operator : JILLIAN
Acquired : 17 Oct 2020 1:01 pm using AcqMethod GC11A_B7.M
Instrument : GC-11
Sample Name: 2010779-003A W WSG
Misc Info : TPHSG
Vial Number: 24



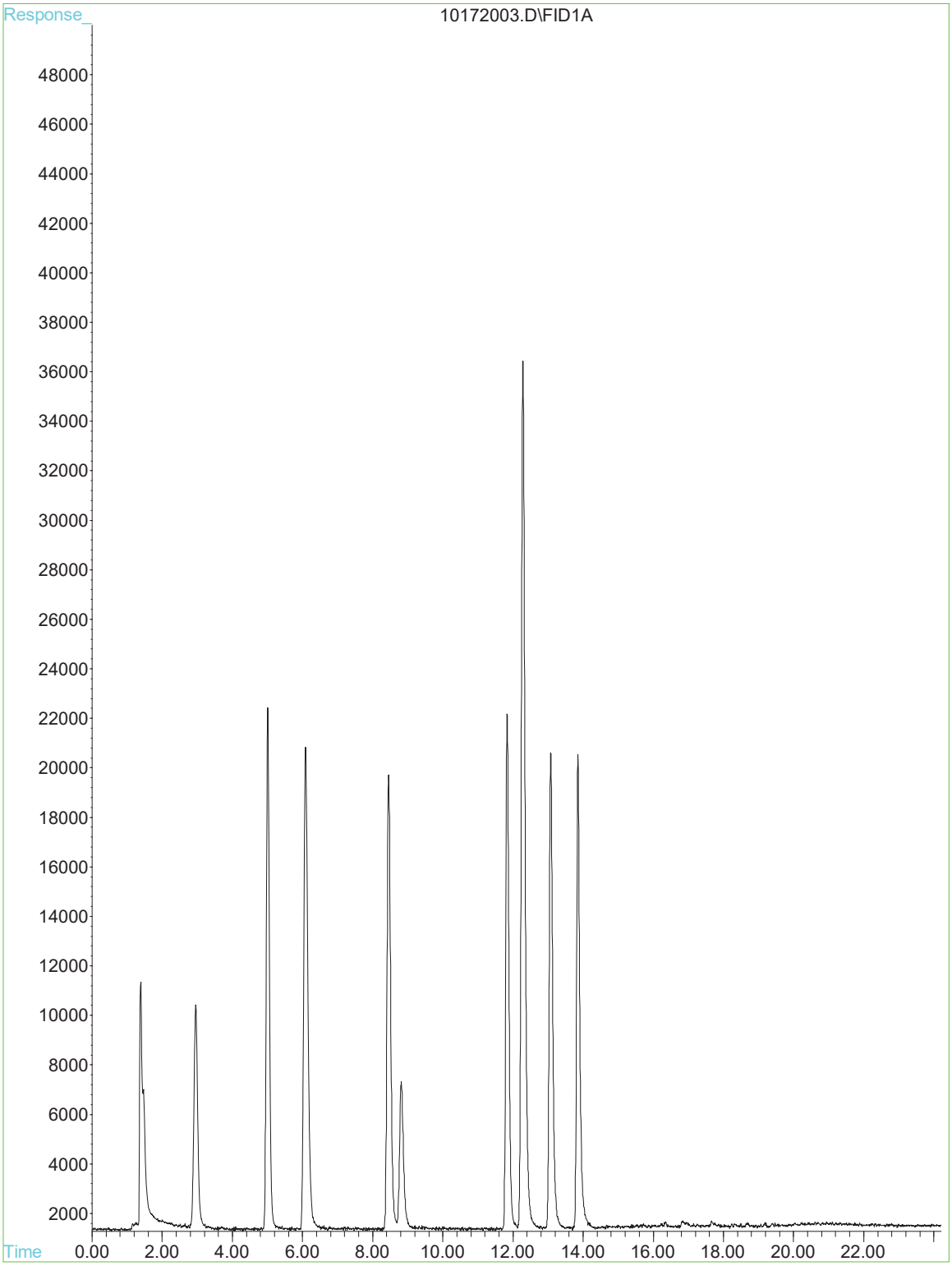
File : D:\HPCHEM\GC31\DATAB\10202033.D
Operator : Jillian
Acquired : 20 Oct 2020 8:03 pm using AcqMethod GC31A_C1.M
Instrument : GC31
Sample Name: 2010779-004A W WSG RR
Misc Info : TPHSG TPHSG
Vial Number: 67



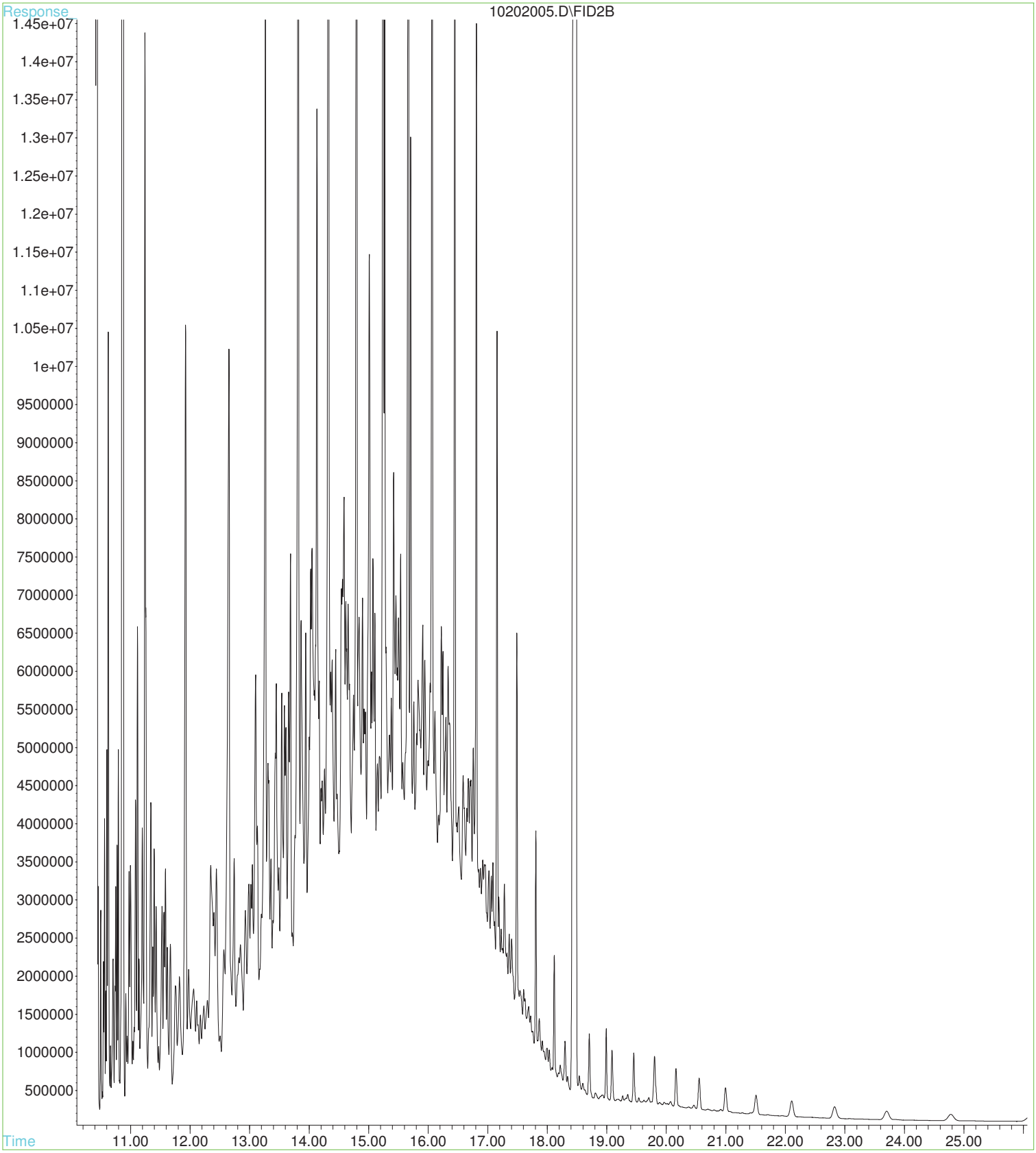
File : D:\HPCHEM\GC3\DATA\10172014.D
Operator : IRINA
Acquired : 17 Oct 2020 5:20 pm using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-004A W
Misc Info : G-MBTEX_W
Vial Number: 14



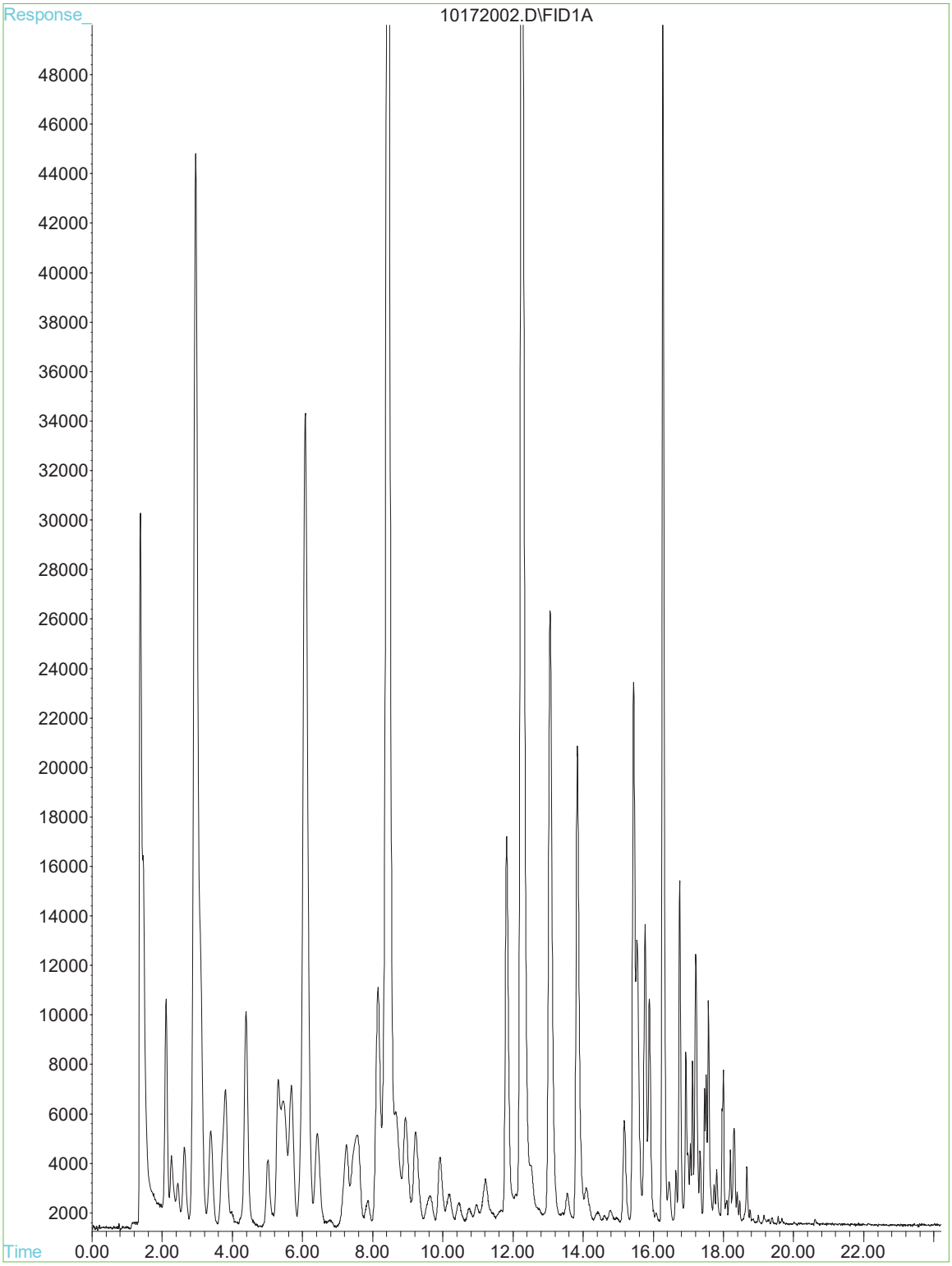
File : D:\HPCHEM\GC3\DATA\10172003.D
Operator : IRINA
Acquired : 17 Oct 2020 11:31 am using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-BTEXstd.pdf
Misc Info : G-MBTEX_W
Vial Number: 3



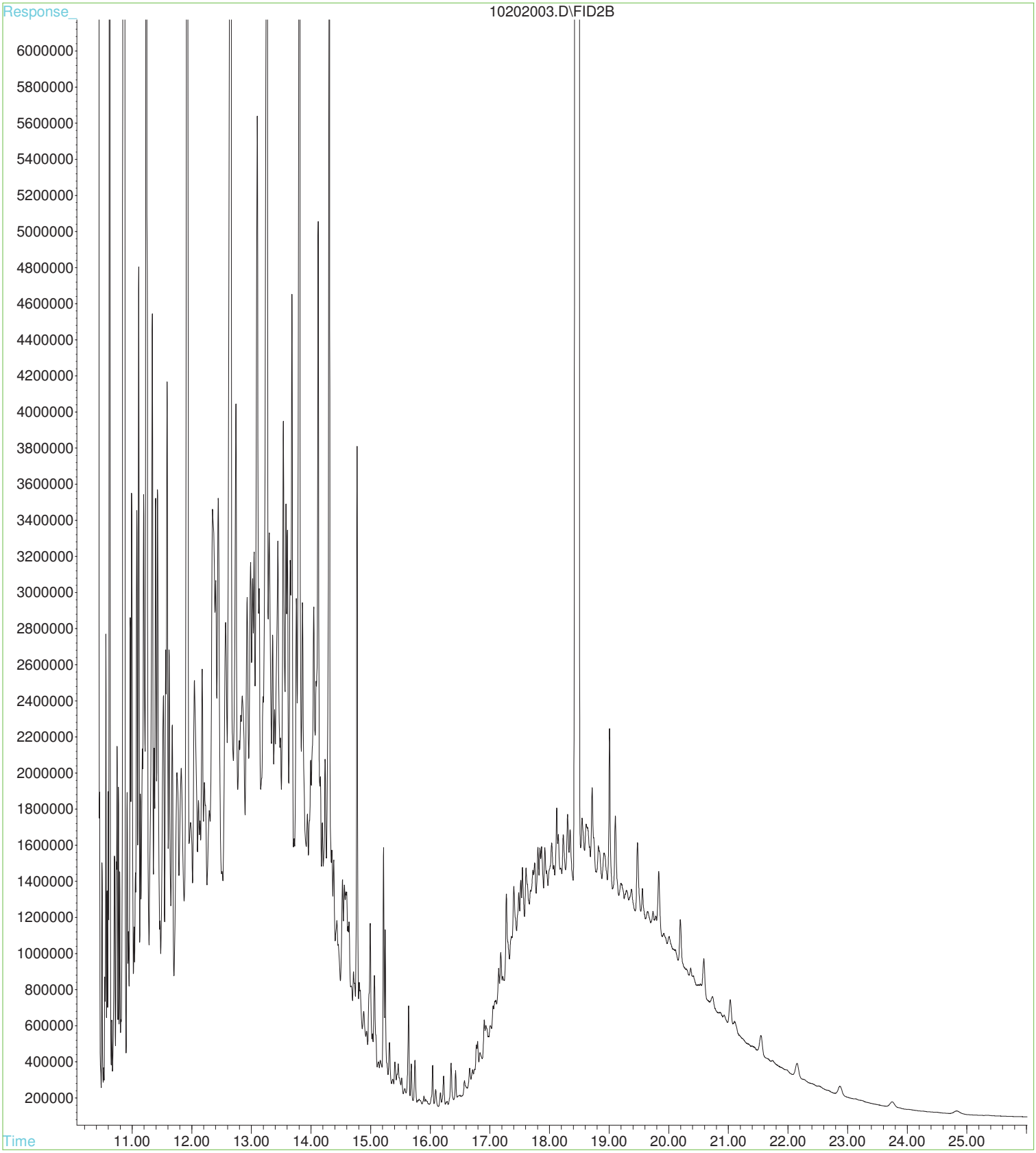
File : D:\HPCHEM\GC31\DATAB\10202005.D
Operator : Jillian
Acquired : 20 Oct 2020 10:40 am using AcqMethod GC31A_C1.M
Instrument : GC31
Sample Name: CCV 10-6
Misc Info :
Vial Number: 53



File : D:\HPCHEM\GC3\DATA\10172002.D
Operator : IRINA
Acquired : 17 Oct 2020 11:00 am using AcqMethod GMBTEXAD.M
Instrument : GC-3
Sample Name: 2010779-GASstd.pdf
Misc Info : G-MBTEX_W
Vial Number: 2



File : D:\HPCHEM\GC31\DATAB\10202003.D
Operator : Jillian
Acquired : 20 Oct 2020 10:01 am using AcqMethod GC31A_C1.M
Instrument : GC31
Sample Name: CCV K MO
Misc Info :
Vial Number: 52



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2010919

Report Created for: Fugro USA Land, Inc.

1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596

Project Contact: Karen Emery
Project P.O.:
Project: 04.00163392; Peerless

Project Received: 10/19/2020

Analytical Report reviewed & approved for release on 11/02/2020 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010919

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Fugro USA Land, Inc.
Project: 04.00163392; Peerless
WorkOrder: 2010919

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S	Surrogate recovery outside accepted recovery limits.
b1	Aqueous sample that contains greater than ~1 vol. % sediment
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.
c2	Surrogate recovery outside of the control limits due to matrix interference.

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010919-001A	Water	10/19/2020 10:36	GC21 10262024.D	207716

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	15	2,000	10/26/2020 15:51
Acenaphthylene	ND	15	2,000	10/26/2020 15:51
Acetochlor	ND	2900	2,000	10/26/2020 15:51
Anthracene	ND	29	2,000	10/26/2020 15:51
Benzidine	ND	15,000	2,000	10/26/2020 15:51
Benzo (a) anthracene	ND	150	2,000	10/26/2020 15:51
Benzo (a) pyrene	ND	15	2,000	10/26/2020 15:51
Benzo (b) fluoranthene	ND	58	2,000	10/26/2020 15:51
Benzo (g,h,i) perylene	ND	58	2,000	10/26/2020 15:51
Benzo (k) fluoranthene	ND	29	2,000	10/26/2020 15:51
Benzoic Acid	ND	15,000	2,000	10/26/2020 15:51
Benzyl Alcohol	ND	15,000	2,000	10/26/2020 15:51
1,1-Biphenyl	ND	150	2,000	10/26/2020 15:51
Bis (2-chloroethoxy) Methane	ND	2900	2,000	10/26/2020 15:51
Bis (2-chloroethyl) Ether	ND	15	2,000	10/26/2020 15:51
Bis (2-chloroisopropyl) Ether	ND	150	2,000	10/26/2020 15:51
Bis (2-ethylhexyl) Adipate	ND	2900	2,000	10/26/2020 15:51
Bis (2-ethylhexyl) Phthalate	ND	580	2,000	10/26/2020 15:51
4-Bromophenyl Phenyl Ether	ND	2900	2,000	10/26/2020 15:51
Butylbenzyl Phthalate	ND	150	2,000	10/26/2020 15:51
4-Chloroaniline	ND	15	2,000	10/26/2020 15:51
4-Chloro-3-methylphenol	ND	2900	2,000	10/26/2020 15:51
2-Chloronaphthalene	ND	2900	2,000	10/26/2020 15:51
2-Chlorophenol	ND	150	2,000	10/26/2020 15:51
4-Chlorophenyl Phenyl Ether	ND	2900	2,000	10/26/2020 15:51
Chrysene	ND	29	2,000	10/26/2020 15:51
Dibenzo (a,h) anthracene	ND	29	2,000	10/26/2020 15:51
Dibenzofuran	ND	2900	2,000	10/26/2020 15:51
Di-n-butyl Phthalate	ND	150	2,000	10/26/2020 15:51
1,2-Dichlorobenzene	ND	2900	2,000	10/26/2020 15:51
1,3-Dichlorobenzene	ND	2900	2,000	10/26/2020 15:51
1,4-Dichlorobenzene	ND	2900	2,000	10/26/2020 15:51
3,3-Dichlorobenzidine	ND	58	2,000	10/26/2020 15:51
2,4-Dichlorophenol	ND	29	2,000	10/26/2020 15:51
Diethyl Phthalate	ND	150	2,000	10/26/2020 15:51
2,4-Dimethylphenol	ND	2900	2,000	10/26/2020 15:51
Dimethyl Phthalate	ND	29	2,000	10/26/2020 15:51

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	2010919-001A	Water	10/19/2020 10:36	GC21 10262024.D	207716

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	15,000	2,000	10/26/2020 15:51
2,4-Dinitrophenol	ND	5800	2,000	10/26/2020 15:51
2,4-Dinitrotoluene	ND	150	2,000	10/26/2020 15:51
2,6-Dichlorophenol	ND	150	2,000	10/26/2020 15:51
2,6-Dinitrotoluene	ND	150	2,000	10/26/2020 15:51
Di-n-octyl Phthalate	ND	150	2,000	10/26/2020 15:51
1,2-Diphenylhydrazine	ND	2900	2,000	10/26/2020 15:51
Fluoranthene	ND	29	2,000	10/26/2020 15:51
Fluorene	ND	29	2,000	10/26/2020 15:51
Hexachlorobenzene	ND	15	2,000	10/26/2020 15:51
Hexachlorobutadiene	ND	29	2,000	10/26/2020 15:51
Hexachlorocyclopentadiene	ND	15,000	2,000	10/26/2020 15:51
Hexachloroethane	ND	150	2,000	10/26/2020 15:51
Indeno (1,2,3-cd) pyrene	ND	58	2,000	10/26/2020 15:51
Isophorone	ND	2900	2,000	10/26/2020 15:51
2-Methylnaphthalene	ND	29	2,000	10/26/2020 15:51
2-Methylphenol (o-Cresol)	ND	2900	2,000	10/26/2020 15:51
3 & 4-Methylphenol (m,p-Cresol)	ND	2900	2,000	10/26/2020 15:51
Naphthalene	ND	150	2,000	10/26/2020 15:51
2-Nitroaniline	ND	15,000	2,000	10/26/2020 15:51
3-Nitroaniline	ND	15,000	2,000	10/26/2020 15:51
4-Nitroaniline	ND	15,000	2,000	10/26/2020 15:51
Nitrobenzene	ND	2900	2,000	10/26/2020 15:51
2-Nitrophenol	ND	15,000	2,000	10/26/2020 15:51
4-Nitrophenol	ND	15,000	2,000	10/26/2020 15:51
N-Nitrosodiphenylamine	ND	2900	2,000	10/26/2020 15:51
N-Nitrosodi-n-propylamine	ND	2900	2,000	10/26/2020 15:51
Pentachlorophenol	**26,000**	730	2,000	10/26/2020 15:51
Phenanthrene	ND	58	2,000	10/26/2020 15:51
Phenol	ND	580	2,000	10/26/2020 15:51
Pyrene	ND	29	2,000	10/26/2020 15:51
Pyridine	ND	2900	2,000	10/26/2020 15:51
1,2,4-Trichlorobenzene	ND	2900	2,000	10/26/2020 15:51
2,4,5-Trichlorophenol	ND	29	2,000	10/26/2020 15:51
2,4,6-Trichlorophenol	ND	29	2,000	10/26/2020 15:51
1-Methylnaphthalene	ND	15	2,000	10/26/2020 15:51

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-7	**2010919-001A**	**Water**	**10/19/2020 10:36**	**GC21 10262024.D**	**207716**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
2-Fluorophenol	116		20-130	10/26/2020 15:51
Phenol-d5	68		20-130	10/26/2020 15:51
Nitrobenzene-d5	2808	S	30-130	10/26/2020 15:51
2-Fluorobiphenyl	0	S	40-130	10/26/2020 15:51
2,4,6-Tribromophenol	112		40-130	10/26/2020 15:51
4-Terphenyl-d14	200	S	40-130	10/26/2020 15:51

Analyst(s): AK Analytical Comments: c1,c2,b1

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010919-002A	Water	10/19/2020 10:20	GC17 10262020.D	207716

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.9	500	10/26/2020 13:51
Acenaphthylene	ND	2.9	500	10/26/2020 13:51
Acetochlor	ND	590	500	10/26/2020 13:51
Anthracene	ND	5.9	500	10/26/2020 13:51
Benzidine	ND	2900	500	10/26/2020 13:51
Benzo (a) anthracene	ND	29	500	10/26/2020 13:51
Benzo (a) pyrene	ND	2.9	500	10/26/2020 13:51
Benzo (b) fluoranthene	ND	12	500	10/26/2020 13:51
Benzo (g,h,i) perylene	ND	12	500	10/26/2020 13:51
Benzo (k) fluoranthene	ND	5.9	500	10/26/2020 13:51
Benzoic Acid	ND	2900	500	10/26/2020 13:51
Benzyl Alcohol	ND	2900	500	10/26/2020 13:51
1,1-Biphenyl	ND	29	500	10/26/2020 13:51
Bis (2-chloroethoxy) Methane	ND	590	500	10/26/2020 13:51
Bis (2-chloroethyl) Ether	ND	2.9	500	10/26/2020 13:51
Bis (2-chloroisopropyl) Ether	ND	29	500	10/26/2020 13:51
Bis (2-ethylhexyl) Adipate	ND	590	500	10/26/2020 13:51
Bis (2-ethylhexyl) Phthalate	ND	120	500	10/26/2020 13:51
4-Bromophenyl Phenyl Ether	ND	590	500	10/26/2020 13:51
Butylbenzyl Phthalate	ND	29	500	10/26/2020 13:51
4-Chloroaniline	ND	2.9	500	10/26/2020 13:51
4-Chloro-3-methylphenol	ND	590	500	10/26/2020 13:51
2-Chloronaphthalene	ND	590	500	10/26/2020 13:51
2-Chlorophenol	ND	29	500	10/26/2020 13:51
4-Chlorophenyl Phenyl Ether	ND	590	500	10/26/2020 13:51
Chrysene	ND	5.9	500	10/26/2020 13:51
Dibenzo (a,h) anthracene	ND	5.9	500	10/26/2020 13:51
Dibenzofuran	ND	590	500	10/26/2020 13:51
Di-n-butyl Phthalate	ND	29	500	10/26/2020 13:51
1,2-Dichlorobenzene	ND	590	500	10/26/2020 13:51
1,3-Dichlorobenzene	ND	590	500	10/26/2020 13:51
1,4-Dichlorobenzene	ND	590	500	10/26/2020 13:51
3,3-Dichlorobenzidine	ND	12	500	10/26/2020 13:51
2,4-Dichlorophenol	ND	5.9	500	10/26/2020 13:51
Diethyl Phthalate	ND	29	500	10/26/2020 13:51
2,4-Dimethylphenol	ND	590	500	10/26/2020 13:51
Dimethyl Phthalate	ND	5.9	500	10/26/2020 13:51

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	2010919-002A	Water	10/19/2020 10:20	GC17 10262020.D	207716

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	2900	500	10/26/2020 13:51
2,4-Dinitrophenol	ND	1200	500	10/26/2020 13:51
2,4-Dinitrotoluene	ND	29	500	10/26/2020 13:51
2,6-Dichlorophenol	ND	29	500	10/26/2020 13:51
2,6-Dinitrotoluene	ND	29	500	10/26/2020 13:51
Di-n-octyl Phthalate	ND	29	500	10/26/2020 13:51
1,2-Diphenylhydrazine	ND	590	500	10/26/2020 13:51
Fluoranthene	ND	5.9	500	10/26/2020 13:51
Fluorene	ND	5.9	500	10/26/2020 13:51
Hexachlorobenzene	ND	2.9	500	10/26/2020 13:51
Hexachlorobutadiene	ND	5.9	500	10/26/2020 13:51
Hexachlorocyclopentadiene	ND	2900	500	10/26/2020 13:51
Hexachloroethane	ND	29	500	10/26/2020 13:51
Indeno (1,2,3-cd) pyrene	ND	12	500	10/26/2020 13:51
Isophorone	ND	590	500	10/26/2020 13:51
2-Methylnaphthalene	ND	5.9	500	10/26/2020 13:51
2-Methylphenol (o-Cresol)	ND	590	500	10/26/2020 13:51
3 & 4-Methylphenol (m,p-Cresol)	ND	590	500	10/26/2020 13:51
Naphthalene	ND	29	500	10/26/2020 13:51
2-Nitroaniline	ND	2900	500	10/26/2020 13:51
3-Nitroaniline	ND	2900	500	10/26/2020 13:51
4-Nitroaniline	ND	2900	500	10/26/2020 13:51
Nitrobenzene	ND	590	500	10/26/2020 13:51
2-Nitrophenol	ND	2900	500	10/26/2020 13:51
4-Nitrophenol	ND	2900	500	10/26/2020 13:51
N-Nitrosodiphenylamine	ND	590	500	10/26/2020 13:51
N-Nitrosodi-n-propylamine	ND	590	500	10/26/2020 13:51
Pentachlorophenol	**3800**	150	500	10/26/2020 13:51
Phenanthrene	ND	12	500	10/26/2020 13:51
Phenol	ND	120	500	10/26/2020 13:51
Pyrene	ND	5.9	500	10/26/2020 13:51
Pyridine	ND	590	500	10/26/2020 13:51
1,2,4-Trichlorobenzene	ND	590	500	10/26/2020 13:51
2,4,5-Trichlorophenol	ND	5.9	500	10/26/2020 13:51
2,4,6-Trichlorophenol	ND	5.9	500	10/26/2020 13:51
1-Methylnaphthalene	ND	2.9	500	10/26/2020 13:51

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-8	**2010919-002A**	**Water**	**10/19/2020 10:20**	**GC17 10262020.D**	**207716**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
2-Fluorophenol	81		20-130	10/26/2020 13:51
Phenol-d5	31		20-130	10/26/2020 13:51
Nitrobenzene-d5	159	S	30-130	10/26/2020 13:51
2-Fluorobiphenyl	103		40-130	10/26/2020 13:51
2,4,6-Tribromophenol	63		40-130	10/26/2020 13:51
4-Terphenyl-d14	80		40-130	10/26/2020 13:51

Analyst(s): AK Analytical Comments: c1

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	2010919-003A	Water	10/19/2020 09:48	GC17 10262008.D	207716

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.014	2	10/26/2020 08:36
Acenaphthylene	ND	0.014	2	10/26/2020 08:36
Acetochlor	ND	2.9	2	10/26/2020 08:36
Anthracene	**0.076**	0.029	2	10/26/2020 08:36
Benzidine	ND	14	2	10/26/2020 08:36
Benzo (a) anthracene	ND	0.14	2	10/26/2020 08:36
Benzo (a) pyrene	**0.025**	0.014	2	10/26/2020 08:36
Benzo (b) fluoranthene	ND	0.057	2	10/26/2020 08:36
Benzo (g,h,i) perylene	ND	0.057	2	10/26/2020 08:36
Benzo (k) fluoranthene	ND	0.029	2	10/26/2020 08:36
Benzoic Acid	ND	14	2	10/26/2020 08:36
Benzyl Alcohol	ND	14	2	10/26/2020 08:36
1,1-Biphenyl	ND	0.14	2	10/26/2020 08:36
Bis (2-chloroethoxy) Methane	ND	2.9	2	10/26/2020 08:36
Bis (2-chloroethyl) Ether	ND	0.014	2	10/26/2020 08:36
Bis (2-chloroisopropyl) Ether	ND	0.14	2	10/26/2020 08:36
Bis (2-ethylhexyl) Adipate	ND	2.9	2	10/26/2020 08:36
Bis (2-ethylhexyl) Phthalate	ND	0.57	2	10/26/2020 08:36
4-Bromophenyl Phenyl Ether	ND	2.9	2	10/26/2020 08:36
Butylbenzyl Phthalate	ND	0.14	2	10/26/2020 08:36
4-Chloroaniline	ND	0.014	2	10/26/2020 08:36
4-Chloro-3-methylphenol	ND	2.9	2	10/26/2020 08:36
2-Chloronaphthalene	ND	2.9	2	10/26/2020 08:36
2-Chlorophenol	ND	0.14	2	10/26/2020 08:36
4-Chlorophenyl Phenyl Ether	ND	2.9	2	10/26/2020 08:36
Chrysene	ND	0.029	2	10/26/2020 08:36
Dibenzo (a,h) anthracene	ND	0.029	2	10/26/2020 08:36
Dibenzofuran	ND	2.9	2	10/26/2020 08:36
Di-n-butyl Phthalate	**0.22**	0.14	2	10/26/2020 08:36
1,2-Dichlorobenzene	ND	2.9	2	10/26/2020 08:36
1,3-Dichlorobenzene	ND	2.9	2	10/26/2020 08:36
1,4-Dichlorobenzene	ND	2.9	2	10/26/2020 08:36
3,3-Dichlorobenzidine	ND	0.057	2	10/26/2020 08:36
2,4-Dichlorophenol	**0.054**	0.029	2	10/26/2020 08:36
Diethyl Phthalate	ND	0.14	2	10/26/2020 08:36
2,4-Dimethylphenol	ND	2.9	2	10/26/2020 08:36
Dimethyl Phthalate	ND	0.029	2	10/26/2020 08:36

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	2010919-003A	Water	10/19/2020 09:48	GC17 10262008.D	207716

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	14	2	10/26/2020 08:36
2,4-Dinitrophenol	ND	5.7	2	10/26/2020 08:36
2,4-Dinitrotoluene	ND	0.14	2	10/26/2020 08:36
2,6-Dichlorophenol	ND	0.14	2	10/26/2020 08:36
2,6-Dinitrotoluene	ND	0.14	2	10/26/2020 08:36
Di-n-octyl Phthalate	ND	0.14	2	10/26/2020 08:36
1,2-Diphenylhydrazine	ND	2.9	2	10/26/2020 08:36
Fluoranthene	ND	0.029	2	10/26/2020 08:36
Fluorene	ND	0.029	2	10/26/2020 08:36
Hexachlorobenzene	ND	0.014	2	10/26/2020 08:36
Hexachlorobutadiene	ND	0.029	2	10/26/2020 08:36
Hexachlorocyclopentadiene	ND	14	2	10/26/2020 08:36
Hexachloroethane	ND	0.14	2	10/26/2020 08:36
Indeno (1,2,3-cd) pyrene	ND	0.057	2	10/26/2020 08:36
Isophorone	ND	2.9	2	10/26/2020 08:36
2-Methylnaphthalene	ND	0.029	2	10/26/2020 08:36
2-Methylphenol (o-Cresol)	ND	2.9	2	10/26/2020 08:36
3 & 4-Methylphenol (m,p-Cresol)	ND	2.9	2	10/26/2020 08:36
Naphthalene	ND	0.14	2	10/26/2020 08:36
2-Nitroaniline	ND	14	2	10/26/2020 08:36
3-Nitroaniline	ND	14	2	10/26/2020 08:36
4-Nitroaniline	ND	14	2	10/26/2020 08:36
Nitrobenzene	ND	2.9	2	10/26/2020 08:36
2-Nitrophenol	ND	14	2	10/26/2020 08:36
4-Nitrophenol	ND	14	2	10/26/2020 08:36
N-Nitrosodiphenylamine	ND	2.9	2	10/26/2020 08:36
N-Nitrosodi-n-propylamine	ND	2.9	2	10/26/2020 08:36
Pentachlorophenol	**12**	0.72	2	10/26/2020 08:36
Phenanthrene	ND	0.057	2	10/26/2020 08:36
Phenol	ND	0.57	2	10/26/2020 08:36
Pyrene	ND	0.029	2	10/26/2020 08:36
Pyridine	ND	2.9	2	10/26/2020 08:36
1,2,4-Trichlorobenzene	ND	2.9	2	10/26/2020 08:36
2,4,5-Trichlorophenol	**0.058**	0.029	2	10/26/2020 08:36
2,4,6-Trichlorophenol	ND	0.029	2	10/26/2020 08:36
1-Methylnaphthalene	**0.032**	0.014	2	10/26/2020 08:36

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Analytical Report

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Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9	**2010919-003A**	**Water**	**10/19/2020 09:48**	**GC17 10262008.D**	**207716**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	53	20-130		10/26/2020 08:36
Phenol-d5	41	20-130		10/26/2020 08:36
Nitrobenzene-d5	65	30-130		10/26/2020 08:36
2-Fluorobiphenyl	63	40-130		10/26/2020 08:36
2,4,6-Tribromophenol	74	40-130		10/26/2020 08:36
4-Terphenyl-d14	59	40-130		10/26/2020 08:36

Analyst(s): AK Analytical Comments: b1

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	2010919-004A	Water	10/19/2020 09:16	GC17 10262018.D	207716

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	13	2,000	10/26/2020 12:58
Acenaphthylene	ND	13	2,000	10/26/2020 12:58
Acetochlor	ND	2600	2,000	10/26/2020 12:58
Anthracene	ND	26	2,000	10/26/2020 12:58
Benzidine	ND	13,000	2,000	10/26/2020 12:58
Benzo (a) anthracene	ND	130	2,000	10/26/2020 12:58
Benzo (a) pyrene	ND	13	2,000	10/26/2020 12:58
Benzo (b) fluoranthene	ND	51	2,000	10/26/2020 12:58
Benzo (g,h,i) perylene	ND	51	2,000	10/26/2020 12:58
Benzo (k) fluoranthene	ND	26	2,000	10/26/2020 12:58
Benzoic Acid	ND	13,000	2,000	10/26/2020 12:58
Benzyl Alcohol	ND	13,000	2,000	10/26/2020 12:58
1,1-Biphenyl	ND	130	2,000	10/26/2020 12:58
Bis (2-chloroethoxy) Methane	ND	2600	2,000	10/26/2020 12:58
Bis (2-chloroethyl) Ether	ND	13	2,000	10/26/2020 12:58
Bis (2-chloroisopropyl) Ether	ND	130	2,000	10/26/2020 12:58
Bis (2-ethylhexyl) Adipate	ND	2600	2,000	10/26/2020 12:58
Bis (2-ethylhexyl) Phthalate	ND	510	2,000	10/26/2020 12:58
4-Bromophenyl Phenyl Ether	ND	2600	2,000	10/26/2020 12:58
Butylbenzyl Phthalate	ND	130	2,000	10/26/2020 12:58
4-Chloroaniline	ND	13	2,000	10/26/2020 12:58
4-Chloro-3-methylphenol	ND	2600	2,000	10/26/2020 12:58
2-Chloronaphthalene	ND	2600	2,000	10/26/2020 12:58
2-Chlorophenol	ND	130	2,000	10/26/2020 12:58
4-Chlorophenyl Phenyl Ether	ND	2600	2,000	10/26/2020 12:58
Chrysene	ND	26	2,000	10/26/2020 12:58
Dibenzo (a,h) anthracene	ND	26	2,000	10/26/2020 12:58
Dibenzofuran	ND	2600	2,000	10/26/2020 12:58
Di-n-butyl Phthalate	ND	130	2,000	10/26/2020 12:58
1,2-Dichlorobenzene	ND	2600	2,000	10/26/2020 12:58
1,3-Dichlorobenzene	ND	2600	2,000	10/26/2020 12:58
1,4-Dichlorobenzene	ND	2600	2,000	10/26/2020 12:58
3,3-Dichlorobenzidine	ND	51	2,000	10/26/2020 12:58
2,4-Dichlorophenol	ND	26	2,000	10/26/2020 12:58
Diethyl Phthalate	ND	130	2,000	10/26/2020 12:58
2,4-Dimethylphenol	ND	2600	2,000	10/26/2020 12:58
Dimethyl Phthalate	ND	26	2,000	10/26/2020 12:58

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	2010919-004A	Water	10/19/2020 09:16	GC17 10262018.D	207716

Analytes	Result	RL	DF	Date Analyzed
4,6-Dinitro-2-methylphenol	ND	13,000	2,000	10/26/2020 12:58
2,4-Dinitrophenol	ND	5100	2,000	10/26/2020 12:58
2,4-Dinitrotoluene	ND	130	2,000	10/26/2020 12:58
2,6-Dichlorophenol	ND	130	2,000	10/26/2020 12:58
2,6-Dinitrotoluene	ND	130	2,000	10/26/2020 12:58
Di-n-octyl Phthalate	ND	130	2,000	10/26/2020 12:58
1,2-Diphenylhydrazine	ND	2600	2,000	10/26/2020 12:58
Fluoranthene	ND	26	2,000	10/26/2020 12:58
Fluorene	ND	26	2,000	10/26/2020 12:58
Hexachlorobenzene	ND	13	2,000	10/26/2020 12:58
Hexachlorobutadiene	ND	26	2,000	10/26/2020 12:58
Hexachlorocyclopentadiene	ND	13,000	2,000	10/26/2020 12:58
Hexachloroethane	ND	130	2,000	10/26/2020 12:58
Indeno (1,2,3-cd) pyrene	ND	51	2,000	10/26/2020 12:58
Isophorone	ND	2600	2,000	10/26/2020 12:58
2-Methylnaphthalene	ND	26	2,000	10/26/2020 12:58
2-Methylphenol (o-Cresol)	ND	2600	2,000	10/26/2020 12:58
3 & 4-Methylphenol (m,p-Cresol)	ND	2600	2,000	10/26/2020 12:58
Naphthalene	ND	130	2,000	10/26/2020 12:58
2-Nitroaniline	ND	13,000	2,000	10/26/2020 12:58
3-Nitroaniline	ND	13,000	2,000	10/26/2020 12:58
4-Nitroaniline	ND	13,000	2,000	10/26/2020 12:58
Nitrobenzene	ND	2600	2,000	10/26/2020 12:58
2-Nitrophenol	ND	13,000	2,000	10/26/2020 12:58
4-Nitrophenol	ND	13,000	2,000	10/26/2020 12:58
N-Nitrosodiphenylamine	ND	2600	2,000	10/26/2020 12:58
N-Nitrosodi-n-propylamine	ND	2600	2,000	10/26/2020 12:58
Pentachlorophenol	**2900**	640	2,000	10/26/2020 12:58
Phenanthrene	ND	51	2,000	10/26/2020 12:58
Phenol	ND	510	2,000	10/26/2020 12:58
Pyrene	ND	26	2,000	10/26/2020 12:58
Pyridine	ND	2600	2,000	10/26/2020 12:58
1,2,4-Trichlorobenzene	ND	2600	2,000	10/26/2020 12:58
2,4,5-Trichlorophenol	ND	26	2,000	10/26/2020 12:58
2,4,6-Trichlorophenol	ND	26	2,000	10/26/2020 12:58
1-Methylnaphthalene	**31**	13	2,000	10/26/2020 12:58

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Analytical Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Received:	10/19/2020 12:30	**Extraction Method:**	E625
Date Prepared:	10/20/2020	**Analytical Method:**	SW8270C
Project:	04.00163392; Peerless	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-10	**2010919-004A**	**Water**	**10/19/2020 09:16**	**GC17 10262018.D**	**207716**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Qualifiers**	**Limits**		
2-Fluorophenol	0	S	20-130		10/26/2020 12:58
Phenol-d5	168	S	20-130		10/26/2020 12:58
Nitrobenzene-d5	2512	S	30-130		10/26/2020 12:58
2-Fluorobiphenyl	104		40-130		10/26/2020 12:58
2,4,6-Tribromophenol	0	S	40-130		10/26/2020 12:58
4-Terphenyl-d14	124		40-130		10/26/2020 12:58

Analyst(s): AK Analytical Comments: c1,c2,b1

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.00280	0.00500	-	-	-
Acenaphthylene	ND	0.00170	0.00500	-	-	-
Anthracene	ND	0.00440	0.0100	-	-	-
Benzidine	ND	0.580	5.00	-	-	-
Benzo (a) anthracene	ND	0.0190	0.0500	-	-	-
Benzo (a) pyrene	ND	0.00250	0.00500	-	-	-
Benzo (b) fluoranthene	ND	0.00500	0.0200	-	-	-
Benzo (g,h,i) perylene	ND	0.00830	0.0200	-	-	-
Benzo (k) fluoranthene	ND	0.00520	0.0100	-	-	-
Benzyl Alcohol	ND	3.00	5.00	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.180	1.00	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00290	0.00500	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0160	0.0500	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.110	1.00	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0970	0.200	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0850	1.00	-	-	-
Butylbenzyl Phthalate	ND	0.0430	0.0500	-	-	-
4-Chloroaniline	ND	0.00210	0.00500	-	-	-
4-Chloro-3-methylphenol	ND	0.150	1.00	-	-	-
2-Chloronaphthalene	ND	0.0640	1.00	-	-	-
2-Chlorophenol	ND	0.00770	0.0500	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.110	1.00	-	-	-
Chrysene	ND	0.00880	0.0100	-	-	-
Dibenzo (a,h) anthracene	ND	0.00830	0.0100	-	-	-
Dibenzofuran	ND	0.0530	1.00	-	-	-
Di-n-butyl Phthalate	ND	0.0140	0.0500	-	-	-
1,2-Dichlorobenzene	ND	0.480	1.00	-	-	-
1,3-Dichlorobenzene	ND	0.240	1.00	-	-	-
1,4-Dichlorobenzene	ND	0.340	1.00	-	-	-
3,3-Dichlorobenzidine	ND	0.00290	0.0200	-	-	-
2,4-Dichlorophenol	ND	0.00290	0.0100	-	-	-
2,6-Dichlorophenol	ND	0.00930	0.0500	-	-	-
Diethyl Phthalate	ND	0.0190	0.0500	-	-	-
2,4-Dimethylphenol	ND	0.140	1.00	-	-	-
Dimethyl Phthalate	ND	0.00480	0.0100	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.00	5.00	-	-	-
2,4-Dinitrophenol	0.791,J	0.550	2.00	-	-	-
2,4-Dinitrotoluene	ND	0.0120	0.0500	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	0.00480	0.0500	-	-	-
Di-n-octyl Phthalate	ND	0.0170	0.0500	-	-	-
1,2-Diphenylhydrazine	ND	0.130	1.00	-	-	-
Fluoranthene	ND	0.00430	0.0100	-	-	-
Fluorene	ND	0.00450	0.0100	-	-	-
Hexachlorobenzene	ND	0.000730	0.00500	-	-	-
Hexachlorobutadiene	ND	0.000910	0.0100	-	-	-
Hexachlorocyclopentadiene	ND	0.850	5.00	-	-	-
Hexachloroethane	ND	0.00720	0.0500	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00780	0.0200	-	-	-
Isophorone	ND	0.180	1.00	-	-	-
2-Methylnaphthalene	ND	0.00180	0.0100	-	-	-
2-Methylphenol (o-Cresol)	ND	0.320	1.00	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.420	1.00	-	-	-
Naphthalene	ND	0.00550	0.0500	-	-	-
2-Nitroaniline	ND	0.310	5.00	-	-	-
3-Nitroaniline	ND	0.660	5.00	-	-	-
4-Nitroaniline	ND	1.30	5.00	-	-	-
Nitrobenzene	ND	0.130	1.00	-	-	-
2-Nitrophenol	ND	0.550	5.00	-	-	-
4-Nitrophenol	ND	1.60	5.00	-	-	-
N-Nitrosodiphenylamine	ND	0.0900	1.00	-	-	-
N-Nitrosodi-n-propylamine	ND	0.320	1.00	-	-	-
Pentachlorophenol	ND	0.0500	0.250	-	-	-
Phenanthrene	ND	0.00740	0.0200	-	-	-
Phenol	ND	0.0200	0.200	-	-	-
Pyrene	ND	0.00420	0.0100	-	-	-
Pyridine	ND	0.160	1.00	-	-	-
1,2,4-Trichlorobenzene	ND	0.0750	1.00	-	-	-
2,4,5-Trichlorophenol	ND	0.00200	0.0100	-	-	-
2,4,6-Trichlorophenol	ND	0.00350	0.0100	-	-	-
N-Nitrosodimethylamine	ND	0.740	5.00	-	-	-

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.28			5	86	50-130
Phenol-d5	4.92			5	98	60-130
Nitrobenzene-d5	4.18			5	84	60-130
2-Fluorobiphenyl	3.55			5	71	60-130
2,4,6-Tribromophenol	4.54			5	91	60-130
Terphenyl-d14	4.75			5	95	70-130

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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.491	0.466	0.50	98	93	70-130	5.28	25
Acenaphthylene	0.548	0.518	0.50	110	104	60-130	5.74	25
Anthracene	0.554	0.527	0.50	111	105	70-130	4.99	25
Benzidine	62.4	58.3	50	125	117	50-130	6.76	25
Benzo (a) anthracene	0.552	0.506	0.50	110	101	60-130	8.76	25
Benzo (a) pyrene	0.582	0.556	0.50	116	111	70-130	4.63	25
Benzo (b) fluoranthene	0.544	0.524	0.50	109	105	60-130	3.72	25
Benzo (g,h,i) perylene	0.525	0.507	0.50	105	101	70-130	3.46	25
Benzo (k) fluoranthene	0.553	0.528	0.50	111	106	70-130	4.53	25
Benzyl Alcohol	47.9	43.7	50	96	87	70-130	9.01	25
Bis (2-chloroethoxy) Methane	8.52	7.84	10	85	78	70-130	8.33	25
Bis (2-chloroethyl) Ether	0.419	0.386	0.50	84	77	60-130	8.28	25
Bis (2-chloroisopropyl) Ether	0.459	0.418	0.50	92	84	60-130	9.47	25
Bis (2-ethylhexyl) Adipate	10.3	9.13	10	103	91	60-130	12.5	25
Bis (2-ethylhexyl) Phthalate	0.608	0.534	0.50	121	107	60-130	12.9	25
4-Bromophenyl Phenyl Ether	9.28	8.86	10	93	89	70-130	4.72	25
Butylbenzyl Phthalate	0.600	0.530	0.50	120	106	60-130	12.3	25
4-Chloroaniline	0.523	0.489	0.50	105	98	70-130	6.58	25
4-Chloro-3-methylphenol	10.5	10.2	10	105	102	70-130	3.50	25
2-Chloronaphthalene	8.77	8.44	10	88	84	70-130	3.89	25
2-Chlorophenol	0.505	0.468	0.50	101	94	60-130	7.59	25
4-Chlorophenyl Phenyl Ether	9.36	9.11	10	94	91	70-130	2.73	25
Chrysene	0.528	0.485	0.50	106	97	70-130	8.55	25
Dibenzo (a,h) anthracene	0.524	0.502	0.50	105	100	70-130	4.18	25
Dibenzofuran	9.50	8.87	10	95	89	70-130	6.81	25
Di-n-butyl Phthalate	0.501	0.460	0.50	100	92	70-130	8.70	25
1,2-Dichlorobenzene	8.64	7.93	10	86	79	60-130	8.55	25
1,3-Dichlorobenzene	8.83	8.26	10	88	83	60-130	6.70	25
1,4-Dichlorobenzene	8.75	7.64	10	87	76	60-130	13.5	25
3,3-Dichlorobenzidine	0.545	0.501	0.50	109	100	70-130	8.55	25
2,4-Dichlorophenol	0.468	0.440	0.50	94	88	70-130	6.11	25
2,6-Dichlorophenol	0.464	0.435	0.50	93	87	70-130	6.39	25
Diethyl Phthalate	0.488	0.458	0.50	98	92	70-130	6.46	25
2,4-Dimethylphenol	11.0	10.2	10	109	102	70-130	7.44	25
Dimethyl Phthalate	0.492	0.461	0.50	98	92	70-130	6.50	25
4,6-Dinitro-2-methylphenol	48.1	46.8	50	96	94	70-130	2.80	25
2,4-Dinitrophenol	9.33	9.51	10	93	95	60-130	1.89	25
2,4-Dinitrotoluene	0.655	0.624	0.50	131,F2	125	70-130	4.80	25

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	0.611	0.584	0.50	122	117	70-130	4.49	25
Di-n-octyl Phthalate	0.669	0.639	0.50	134,F2	128	70-130	4.58	25
1,2-Diphenylhydrazine	9.25	8.80	10	92	88	70-130	4.94	25
Fluoranthene	0.563	0.538	0.50	113	108	70-130	4.69	25
Fluorene	0.540	0.516	0.50	108	103	70-130	4.57	25
Hexachlorobenzene	0.432	0.412	0.50	86	82	60-130	4.78	25
Hexachlorobutadiene	0.407	0.373	0.50	81	75	60-130	8.72	25
Hexachlorocyclopentadiene	43.9	39.8	50	88	80	60-130	9.60	25
Hexachloroethane	0.422	0.385	0.50	84	77	60-130	9.15	25
Indeno (1,2,3-cd) pyrene	0.530	0.503	0.50	106	101	70-130	5.23	25
Isophorone	10.0	9.15	10	100	91	70-130	8.89	25
2-Methylnaphthalene	0.519	0.482	0.50	104	96	60-130	7.56	25
2-Methylphenol (o-Cresol)	9.76	9.06	10	98	91	70-130	7.49	25
3 & 4-Methylphenol (m,p-Cresol)	9.52	9.04	10	95	90	70-130	5.15	25
Naphthalene	0.373	0.344	0.50	75	69	50-130	7.93	25
2-Nitroaniline	52.3	50.0	50	105	100	70-130	4.34	25
3-Nitroaniline	53.1	50.8	50	106	102	70-130	4.47	25
4-Nitroaniline	54.5	51.2	50	109	102	70-130	6.19	25
Nitrobenzene	10.8	10.2	10	108	102	70-130	5.99	25
2-Nitrophenol	54.8	51.5	50	110	103	70-130	6.05	25
4-Nitrophenol	57.4	56.3	50	115	113	50-130	2.00	25
N-Nitrosodiphenylamine	9.46	8.77	10	95	88	70-130	7.59	25
N-Nitrosodi-n-propylamine	9.97	9.25	10	100	93	60-130	7.47	25
Pentachlorophenol	2.38	2.27	2.5	95	91	60-130	4.87	25
Phenanthrene	0.482	0.457	0.50	97	91	70-130	5.44	25
Phenol	1.87	1.73	2	93	87	60-130	7.42	25
Pyrene	0.606	0.554	0.50	121	111	70-130	8.87	25
Pyridine	8.32	7.51	10	83	75	50-130	10.2	25
1,2,4-Trichlorobenzene	8.09	7.53	10	81	75	70-130	7.22	25
2,4,5-Trichlorophenol	0.551	0.516	0.50	110	103	70-130	6.63	25
2,4,6-Trichlorophenol	0.461	0.429	0.50	92	86	70-130	7.30	25

(Cont.)

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Fugro USA Land, Inc.	**WorkOrder:**	2010919
Date Prepared:	10/20/2020	**BatchID:**	207716
Date Analyzed:	10/20/2020	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	04.00163392; Peerless	**Sample ID:**	MB/LCS/LCSD-207716

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	4.14	4.07	5	83	81	50-130	1.75	25
Phenol-d5	4.91	4.60	5	98	92	60-130	6.36	25
Nitrobenzene-d5	4.96	4.98	5	99	100	60-130	0.328	25
2-Fluorobiphenyl	4.47	4.44	5	89	89	60-130	0.600	25
2,4,6-Tribromophenol	5.21	5.18	5	104	104	60-130	0.612	25
Terphenyl-d14	5.57	4.85	5	111	97	70-130	13.8	25

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2010919 **ClientCode: FUL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
(925) 949-7140 FAX: (925) 949-7070

Email: kemery@fugro.com
cc/3rd Party:
PO:
Project: 04.00163392; Peerless

Bill to:
Karen Emery
Fugro USA Land, Inc.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
kemery@fugro.com

Requested TAT: 5 days;

Date Received: **10/19/2020**
Date Logged: **10/19/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2010919-001	S-7	Water	10/19/2020 10:36	☐	A	A										
2010919-002	S-8	Water	10/19/2020 10:20	☐	A	A										
2010919-003	S-9	Water	10/19/2020 09:48	☐	A	A										
2010919-004	S-10	Water	10/19/2020 09:16	☐	A	A										

Test Legend:

1	8270_SCSM_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Rosa Venegas **Prepared by: Tina Perez**

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments

Work Order: 2010919
QC Level: LEVEL 2
Date Logged: 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010919-001A	S-7	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA Narrow Mouth, Unpres	☐	10/19/2020 10:36	5 days	1%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010919

Client Contact: Karen Emery **QC Level:** LEVEL 2

Contact's Email: kemery@fugro.com **Comments** **Date Logged:** 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments

Work Order: 2010919
QC Level: LEVEL 2
Date Logged: 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010919-002A	S-8	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA Narrow Mouth, Unpres	☐	10/19/2020 10:20	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010919
Client Contact: Karen Emery **QC Level:** LEVEL 2
Contact's Email: kemery@fugro.com **Comments** **Date Logged:** 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010919

Client Contact: Karen Emery **QC Level:** LEVEL 2

Contact's Email: kemery@fugro.com **Comments** **Date Logged:** 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010919-003A	S-9	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA Narrow Mouth, Unpres	☐	10/19/2020 9:48	5 days	1%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010919

Client Contact: Karen Emery **QC Level:** LEVEL 2

Contact's Email: kemery@fugro.com **Comments** **Date Logged:** 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC.
Client Contact: Karen Emery
Contact's Email: kemery@fugro.com

Project: 04.00163392; Peerless
Comments

Work Order: 2010919
QC Level: LEVEL 2
Date Logged: 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010919-004A	S-10	Water	SW8270C (SVOCs) <1,1-Biphenyl, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol (o-Cresol), 2-Nitroaniline, 2-Nitrophenol, 3 & 4-Methylphenol (m,p-Cresol), 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetochlor, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzoic Acid, Benzyl Alcohol, Bis (2-	1	1LA Narrow Mouth, Unpres	☐	10/19/2020 9:16	5 days	1%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: FUGRO USA LAND, INC. **Project:** 04.00163392; Peerless **Work Order:** 2010919

Client Contact: Karen Emery **QC Level:** LEVEL 2

Contact's Email: kemery@fugro.com **Comments** **Date Logged:** 10/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Adipate, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Pyridine>							

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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20100919

FF-02 CHAIN OF CUSTODY

PROJECT NAME: Peerless

PROJECT NO.: 04.00163392 LAB: McCampbell

PROJECT CONTACT: Karen Emery TURNAROUND: 5 day

SAMPLED BY: K.Emery

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	Ewm: HCL	Ewm: H_2SO_4	Ewm: HNO_3	Ewm: ICE	Ewm: OTHER	Ewm: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	SVOCs including Pentachlorophenol & Naphthalene (8270)
1.1.	S-7	X				X						X			10	19	20	1036		X
2	S-8	X				X						X			10	19	20	1025		X
1.1.	S-9	X				X						X			10	19	20	0948		X
1.1.	S-10	X				X						X			10	19	20	0916		X

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Karen	10/19/20 12:36		10/19/20 @ 12:30
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

COMMENTS & NOTES:

COMPLETE ANALYSES, HOWEVER HOLD RESULTS AND RELEASE OF FINAL REPORT UNTIL NOVEMBER 2, 2020.

4.7.C wet

FUGRO USA LAND, INC.
1777 Botelho Drive, Suite 262
Walnut Creek, CA 94596
Tel: 925.949.7100 Fax: 925.949.7070

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Fugro USA Land, Inc.**
Project: **04.00163392; Peerless**

WorkOrder №: **2010919** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **10/19/2020 12:30**
Date Logged: **10/19/2020**
Received by: Tina Perez
Logged by: Tina Perez

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 4.7°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA	☐
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:

Appendix E

SFRWQCB January 16, 2020 Letter

January 16, 2020
File Nos: 01-1147 and 01S0490 (CCM)

Herst Ventures, Inc.
Attn: Douglas Herst
2027 Fourth Street
Berkeley, CA 90001

Subject: Property at 2220 Fourth Street, Berkeley, Alameda County - Requirement for Report on Groundwater Monitoring and Sampling Results and Evaluation of Low Threat Closure Criteria

Dear Mr. Herst:

This letter responds to your July 16, 2018, Supplemental Site Information Report and Soil and Groundwater Management Plan (report) prepared by Fugro USA Land, Inc., (Fugro) for the subject property at 2220 Fourth Street in Berkeley. This letter rescinds and replaces a letter previously sent on December 24, 2019. The report was submitted in response to a March 10, 2016, email by John Jang of my staff. The property has two cases in the State's "Geotracker" database. Case No. 01-1147 is associated with petroleum underground storage tank (UST) impacts, and Case No. 01S0490 is associated with non-petroleum impacts, primarily pesticides and solvents.

I approve your report, including soil and groundwater management plan. I require Herst Ventures, Inc. to submit a technical report by April 30, 2020. This report is needed to obtain recent water quality data from existing wells and piezometers on the property, and to assess the fate and transport of diesel, chlordane and pentachlorophenol (PCP) related to a historic onsite releases, and chlorinated solvents related to offsite historic releases. This letter also requires low-threat closure evaluations to demonstrate if the UST case 01-1147 is eligible for closure under the *State's Low-Threat UST Case Closure Policy* ("The Policy"), and if the SCP case 01S0490 is eligible for low threat closure under our *Assessment Tool For Closure of Low Threat Chlorinated Solvent Sites* ("The Assessment Tool").

Background

The property's two USTs used by Terminix for insecticides and diesel or kerosene that were removed in 1984 and 1987. Herst Ventures Inc., the owner of the property in 1981, conducted voluntary soil and groundwater investigations both onsite and in the immediately adjacent railroad right of way as they contemplate various redevelopment and property repurposing scenarios. The Soil and Groundwater Management Plan is used to mitigate risks posed to onsite workers should they encounter soil and groundwater during routine property repair and maintenance until such time that

redevelopment of the site occurs. Since 2008, Fugro completes annual site inspections to confirm that the uses and surficial conditions at the site have remained unchanged.

In Fugro's February 27, 2007, *Additional Site Study Report*, concentrations of PCP ranged from 3,100 µg/L to 11,000 µg/L; TEH ranged from 56 µg/L to 39,000 µg/L and chlordane up to 9.5 µg/L in grab water samples collected September 2006. These levels exceed San Francisco Bay Regional Water Board's Tier 1 Environmental Screening Levels, updated January 2019.

Requirement for Report

Herst Ventures, Inc. is required to submit a report by April 30, 2020, for groundwater monitoring and sampling and low threat case closure evaluations, as discussed herein. If desired, separate reports for the leaking fuel UST case 01-1147 and non-fuel Site Cleanup Program case 01S0490 may be submitted. The report(s) should include the following elements:

- Condition of all existing monitoring wells and piezometers at the property and suitability for groundwater sampling; actions taken address any lost or damaged well or piezometer that was not sampled.
- Sampling methods, water levels in wells and piezometers, presence of free product, if any
- Quality assurance/controls, and chain of custody records.
- Laboratory report, results of water samples tested for petroleum hydrocarbon compounds (TPH), semi-volatile organic compounds (SVOC), volatile organic compounds (VOCs) with benzene, toluene, ethyl benzene, xylenes, naphthalene, methyl-tert butyl ether, poly-aromatic hydrocarbons.
- Conceptual site models that asses the nature, extent and mobility of the release(s), removal of primary and secondary sources, plume delineation and plume stability.
- Low-threat closure evaluation for the petroleum fuel UST Case 01-1147 in accordance with The Policy and identification of data gaps to closure, if any.
- Low-threat closure evaluation for the SCP Case 01S0490, in accordance with The Assessment Tool and identification of date gaps, if any.
- Recommended next steps to move the cases towards closure, including but not limited to the following:
    - Remedial actions to reduce or eliminate future impacts to human health or water quality from contamination at the property
    - Institutional constraints (i.e., land use covenant) for long-term risk management of the PCP/chlordane impacts to soil and groundwater at the property, until redevelopment that allows access to the impacted areas, and
    - Long-term monitoring and well destruction.

Herst Ventures, Inc. is required to submit all documents in electronic format to the State Water Resources Control Board's GeoTracker database, pursuant to the California Code of Regulations (Title 23, Section 3890, et.seq.). See Electronic Submittal of

Information for guidance on submitting documents to GeoTracker. Please note that this requirement includes all analytical data, monitoring well information (latitudes, longitudes, elevations, and water depth), site maps, and boring logs.

This requirement for a report is made pursuant to Water Code Section 13267, which allows the Water Board to require technical or monitoring program reports from any person who has discharged, discharges, proposes to discharge, or is suspected of discharging waste that could affect water quality. The attachment provides additional information about Section 13267 requirements. Any extension in the above deadline must be confirmed in writing by Water Board staff.

If you have any questions, please contact Cherie McCaulou of my staff at (510) 922-2342 or cherie.mccaulou@waterboards.ca.gov

Sincerely,

Michael Montgomery
Executive Officer

Attachment: Section 13267 Fact Sheet

Copy by email with attachment:
DTSC, Thomas Price, Thomas.price@dtsc.ca.gov
City of Berkeley, Karl Busche, kbusche@cityofberkely.info
Holland&Knight, Attn.: Mr. Nicholas Targ, Nicholas.targ@hklaw.com
Fugro USA Land, Inc., Karen Emery-Tonkovich, kemery@fugro.com

Fact Sheet – Requirements for Submitting Technical Reports Under Section 13267 of the California Water Code

What does it mean when the Regional Water Board requires a technical report?

Section 13267[1] of the California Water Code provides that "…the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged or discharging, or who proposes to discharge waste...that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires."

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

The requirement for a technical report is a tool the Regional Water Board uses to investigate water quality issues or problems. The information provided can be used by the Regional Water Board to clarify whether a given party has responsibility.

Are there limits to what the Regional Water Board can ask for?

Yes. The information required must relate to an actual or suspected or proposed discharge of waste (including discharges of waste where the initial discharge occurred many years ago), and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The Regional Water Board is required to explain the reasons for its requirement.

What if I can provide the information, but not by the date specified?

A time extension may be given for good cause. Your request should be promptly submitted in writing, giving reasons.

Are there penalties if I don't comply?

Depending on the situation, the Regional Water Board can impose a fine of up to $5,000 per day, and a court can impose fines of up to $25,000 per day as well as criminal penalties. A person who submits false information or fails to comply with a requirement to submit a technical report may be found guilty of a misdemeanor. For some reports, submission of false information may be a felony.

Do I have to use a consultant or attorney to comply?

There is no legal requirement for this, but as a practical matter, in most cases the specialized nature of the information required makes use of a consultant and/or attorney advisable.

What if I disagree with the 13267 requirements and the Regional Water Board staff will not change the requirement and/or date to comply?

You may ask that the Regional Water Board reconsider the requirement, and/or submit a petition to the State Water Resources Control Board. See California Water Code sections 13320 and 13321 for details. A request for reconsideration to the Regional Water Board does not affect the 30-day deadline within which to file a petition to the State Water Resources Control Board.

If I have more questions, whom do I ask?

Requirements for technical reports include the name, telephone number, and email address of the Regional Water Board staff contact.

Revised March 2014

[1] All code sections referenced herein can be found by going to California Legislative Code Section search at http://leginfo.legislature.ca.gov/faces/codes.xhtml

APPENDIX C

Historical Research Documentation

HALEY ALDRICH

2229 4TH ST

2229 4TH ST

BERKELEY, CA 94710

Inquiry Number: 6323092.3

January 07, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/21

Site Name:

2229 4TH ST
2229 4TH ST
BERKELEY, CA 94710
EDR Inquiry # 6323092.3

Client Name:

Haley & Aldrich, Inc.
2033 N. Main Street
Walnut Creek, CA 94596
Contact: Marie Rose Javier

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PO # NA

Project 0134361-005-001-01

Maps Provided:

1980
1950
1929
1911
1903

Sanborn® Library search results

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Key

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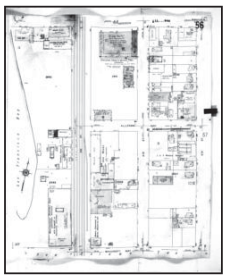
1980 Source Sheets

Volume 1, Sheet 56

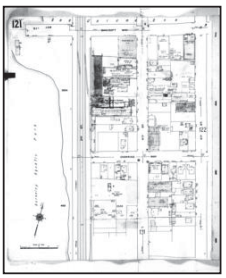
Volume 1, Sheet 57

Volume 2, Sheet 121

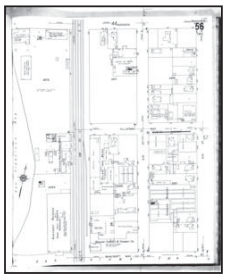
1950 Source Sheets

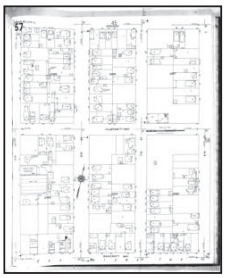

Volume 1, Sheet 56

Volume 1, Sheet 57

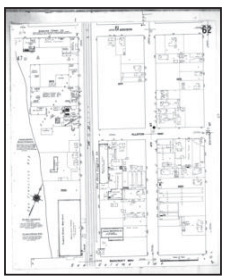

Volume 2, Sheet 121

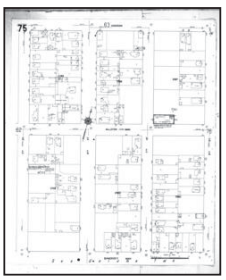
1929 Source Sheets

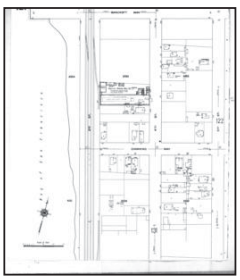

Volume 1, Sheet 56


Volume 1, Sheet 57

1911 Source Sheets


Volume 1, Sheet 62


Volume 1, Sheet 75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Sanborn Sheet Key

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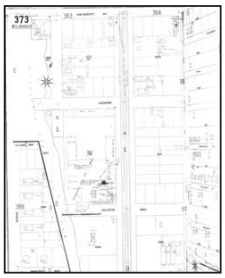
1903 Source Sheets

Volume 3, Sheet 370

Volume 3, Sheet 372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Site Name:	2229 4TH ST
Address:	2229 4TH ST
City, ST, ZIP:	BERKELEY, CA 94710
Client:	Haley & Aldrich, Inc.
EDR Inquiry:	6323092.3
Order Date:	01/07/2021
Certification #	3ABD-4FEF-9258
Copyright	1980

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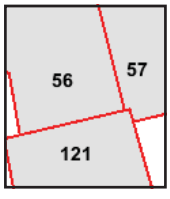

Volume 2, Sheet 121
Volume 1, Sheet 57
Volume 1, Sheet 56

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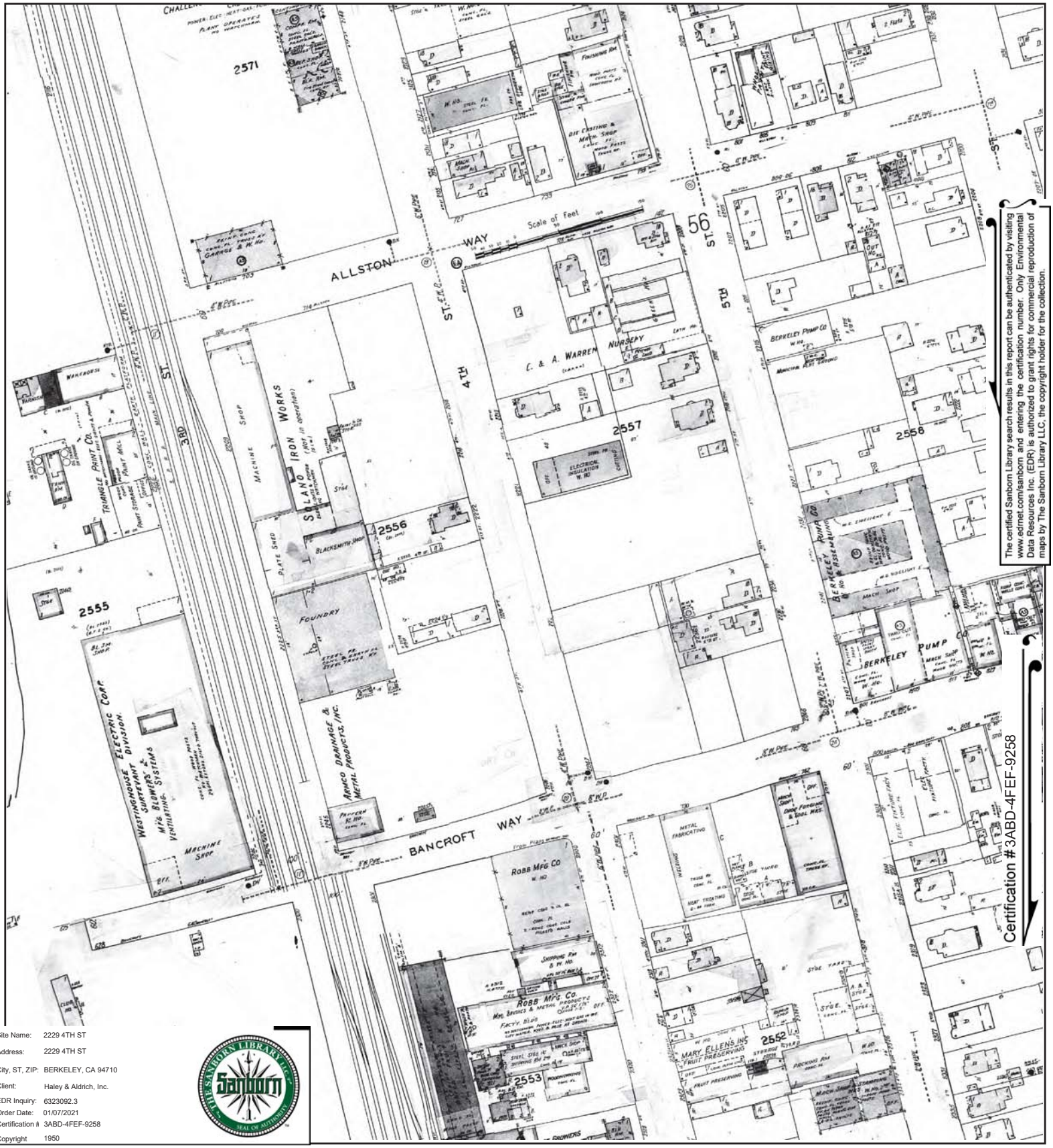

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Client:	Haley & Aldrich, Inc.
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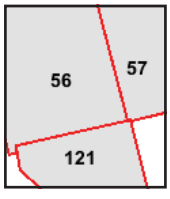

Volume 2, Sheet 121
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Volume 1, Sheet 56

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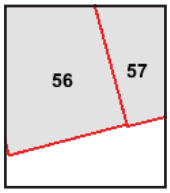

Volume 1, Sheet 57
Volume 1, Sheet 56

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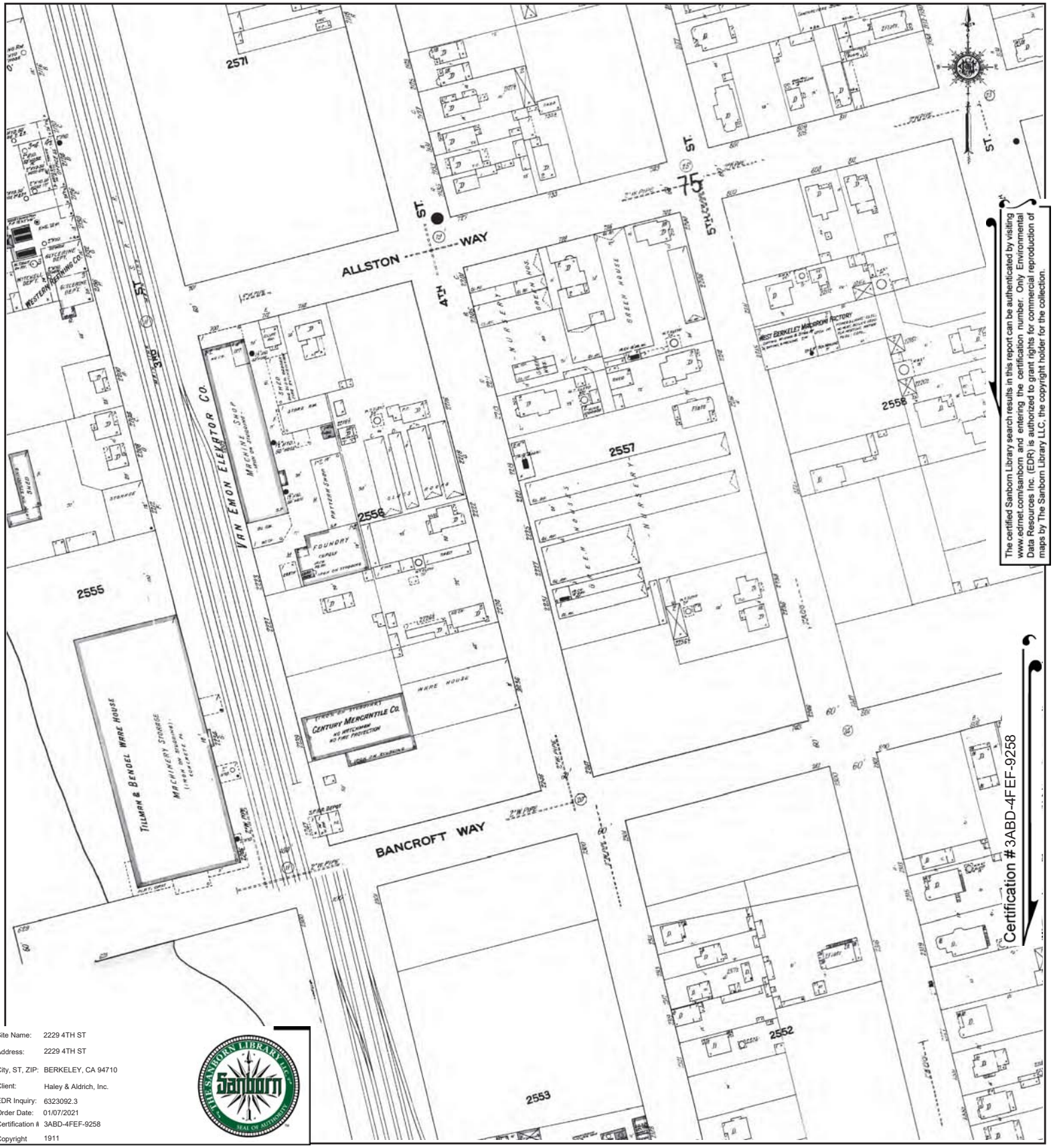

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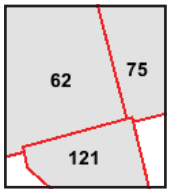

Volume 2, Sheet 121
Volume 1, Sheet 75
Volume 1, Sheet 62

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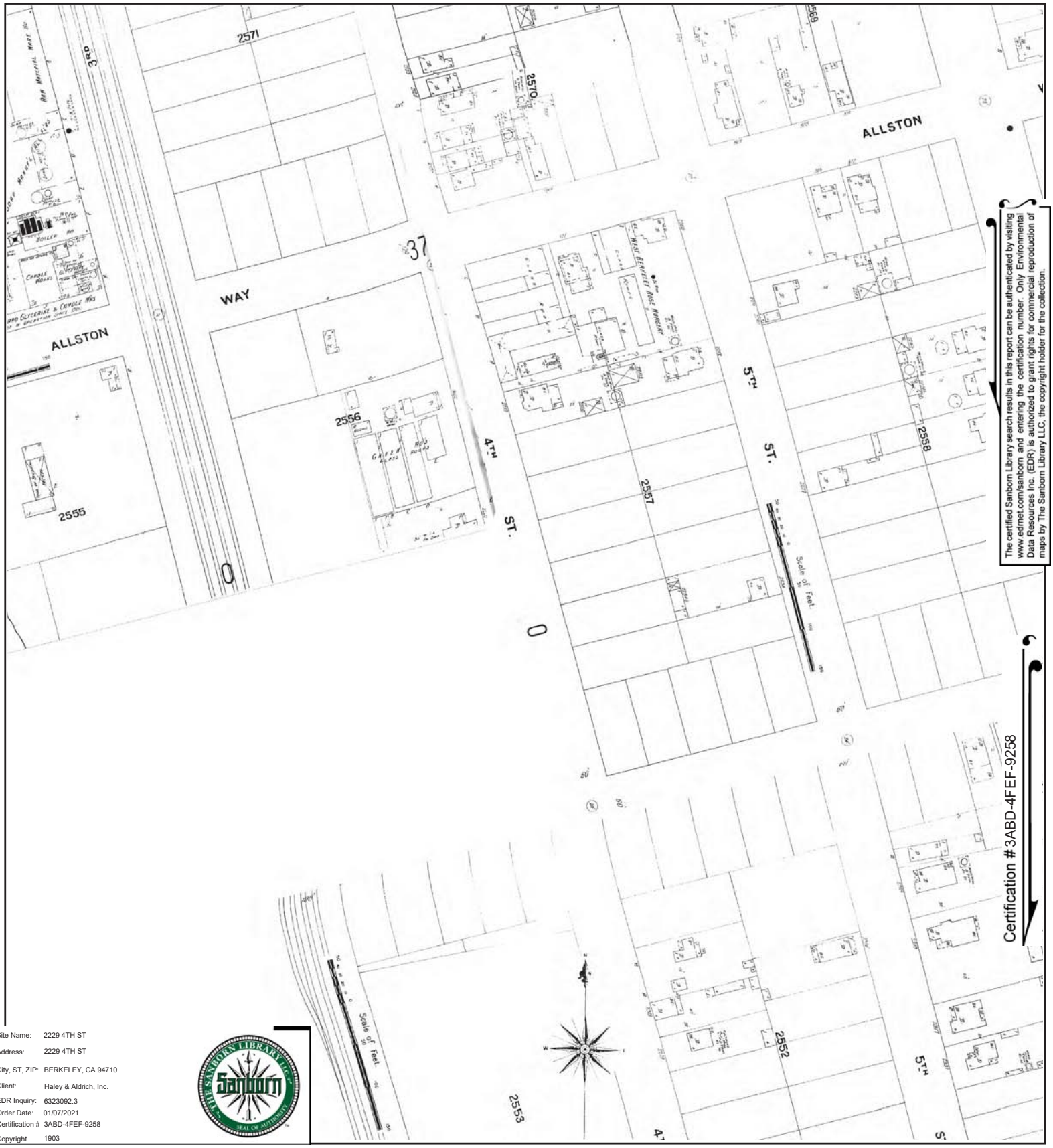

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City, ST, ZIP: BERKELEY, CA 94710
Client: Haley & Aldrich, Inc.
EDR Inquiry: 6323092.3
Order Date: 01/07/2021
Certification #: 3ABD-4FEF-9258
Copyright: 1903

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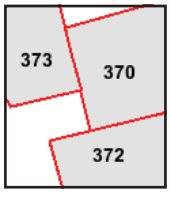

Volume 3, Sheet 373
Volume 3, Sheet 372
Volume 3, Sheet 370

0 Feet 150 300 600

N

2229 4TH ST

2229 4TH ST

BERKELEY, CA 94710

Inquiry Number: 6323092.4

January 07, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

01/07/21

Site Name:

2229 4TH ST
2229 4TH ST
BERKELEY, CA 94710
EDR Inquiry # 6323092.4

Client Name:

Haley & Aldrich, Inc.
2033 N. Main Street
Walnut Creek, CA 94596
Contact: Marie Rose Javier

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Haley & Aldrich, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: 0134361-005-001-01

Coordinates:

Latitude:	37.863956 37° 51' 50" North
Longitude:	-122.298526 -122° 17' 55" West
UTM Zone:	Zone 10 North
UTM X Meters:	561701.53
UTM Y Meters:	4190952.67
Elevation:	25.92' above sea level

Maps Provided:

2012	1915
1996	1899
1980	1895
1973	
1968	
1959	
1949	
1948	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Richmond

7.5-minute, 24000

Oakland West

7.5-minute, 24000

1996 Source Sheets

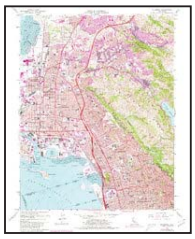
Richmond

7.5-minute, 24000
Aerial Photo Revised 1993

Oakland West

7.5-minute, 24000
Aerial Photo Revised 1993

1980 Source Sheets



Richmond

7.5-minute, 24000
Aerial Photo Revised 1979

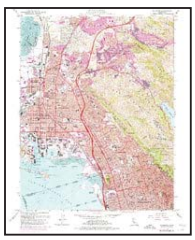
Oakland West

7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets

Oakland West

7.5-minute, 24000
Aerial Photo Revised 1973



Richmond

7.5-minute, 24000
Aerial Photo Revised 1973

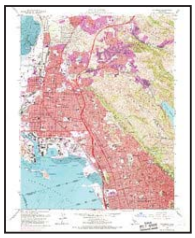
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

Oakland West

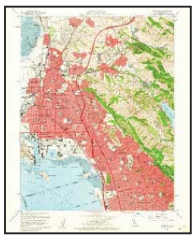
7.5-minute, 24000
Aerial Photo Revised 1947



Richmond

7.5-minute, 24000
Aerial Photo Revised 1968

1959 Source Sheets



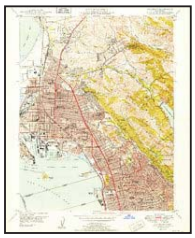
Richmond

7.5-minute, 24000
Aerial Photo Revised 1958

Oakland West

7.5-minute, 24000
Aerial Photo Revised 1958

1949 Source Sheets



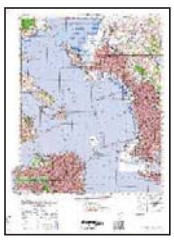
Richmond

7.5-minute, 24000
Aerial Photo Revised 1946

Oakland West

7.5-minute, 24000
Aerial Photo Revised 1946

1948 Source Sheets



SAN FRANCISCO

15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1915 Source Sheets

San Francisco

15-minute, 62500

1899 Source Sheets

San Francisco

15-minute, 62500

1895 Source Sheets

San Francisco

15-minute, 62500

Historical Topo Map

2012

This report includes information from the following map sheet(s).

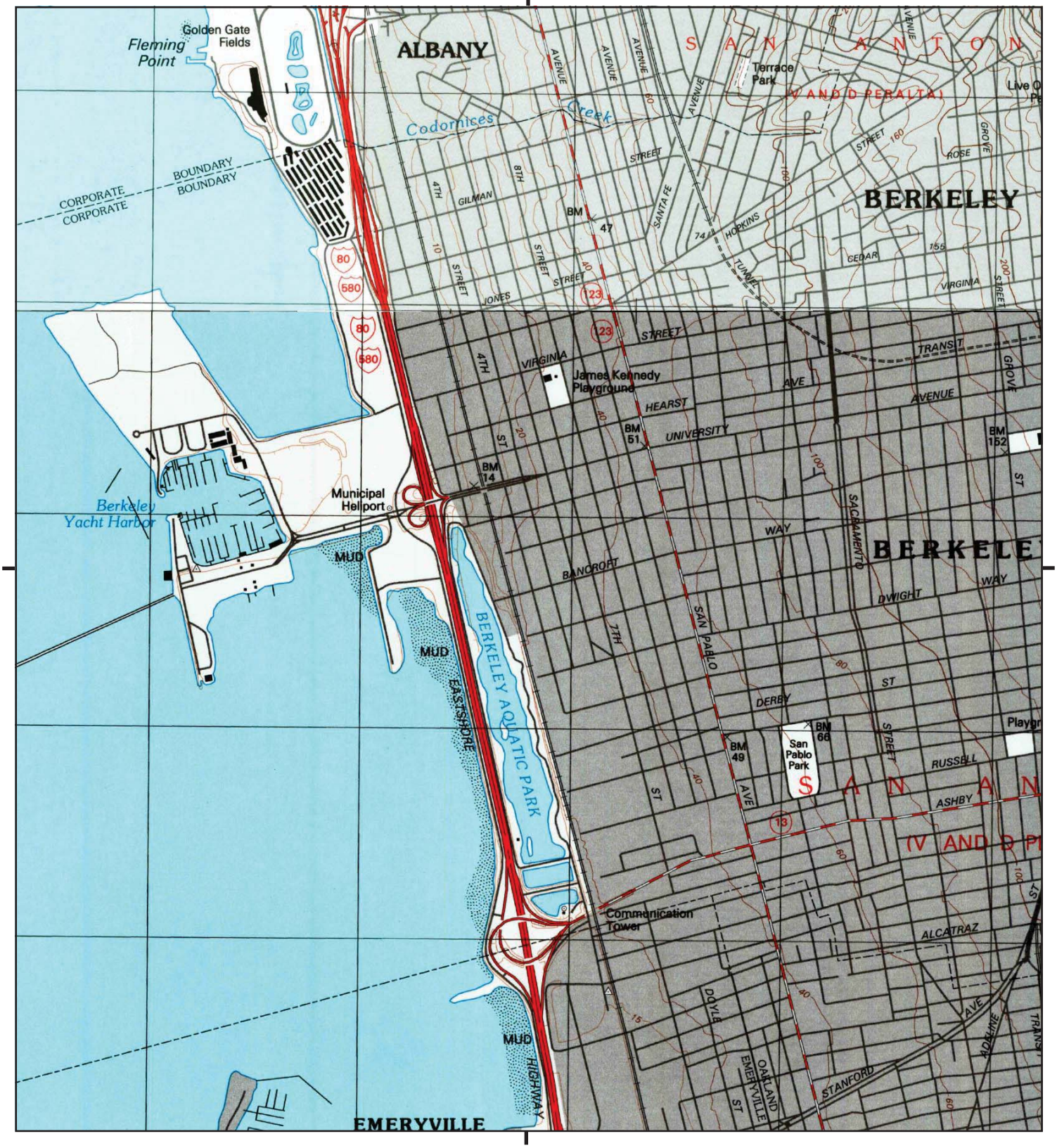
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Oakland West, 2012, 7.5-minute
N, Richmond, 2012, 7.5-minute

SITE NAME: 2229 4TH ST
ADDRESS: 2229 4TH ST
BERKELEY, CA 94710
CLIENT: Haley & Aldrich, Inc.

N



This report includes information from the following map sheet(s).

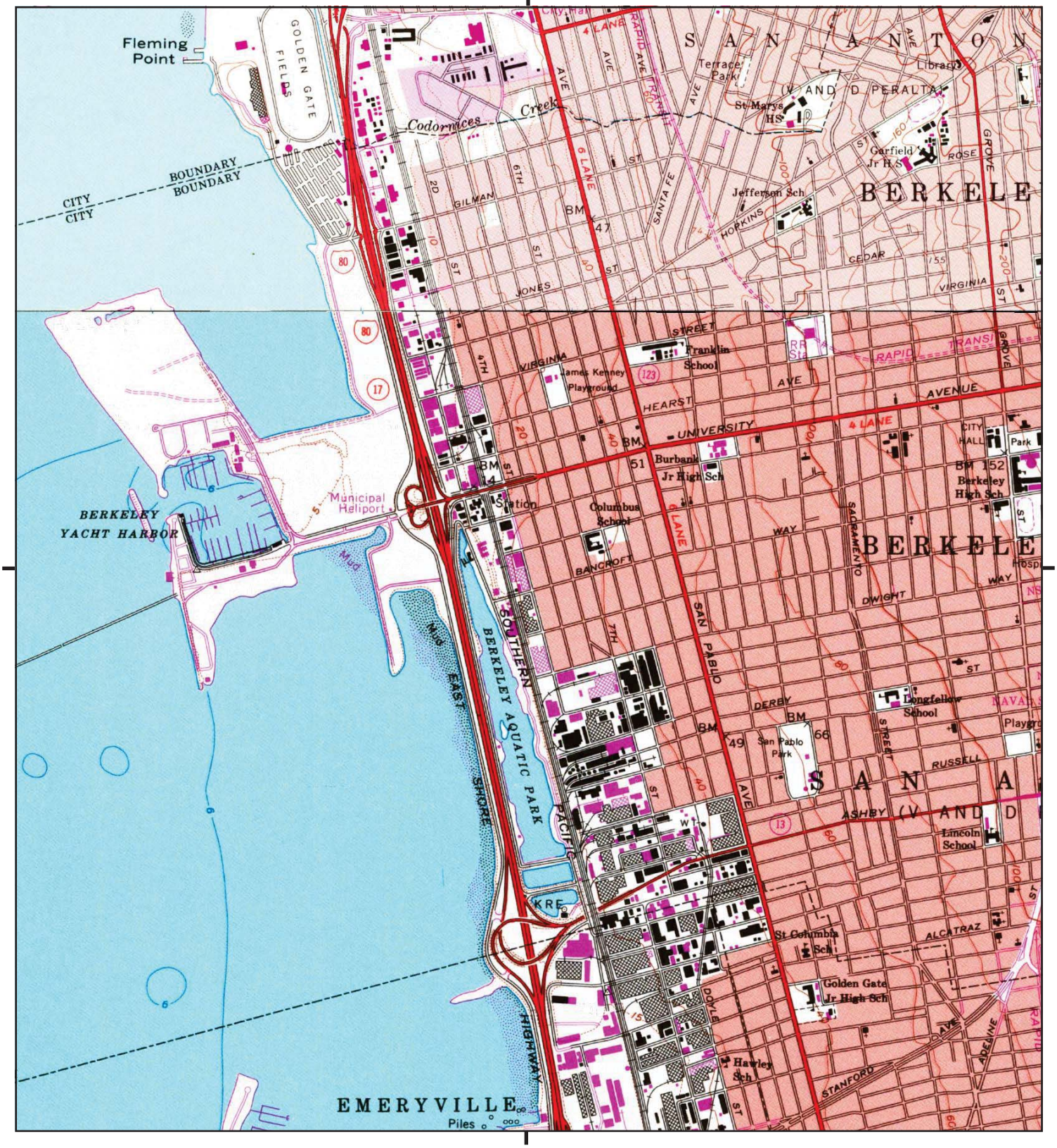
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Oakland West, 1996, 7.5-minute
N, Richmond, 1996, 7.5-minute

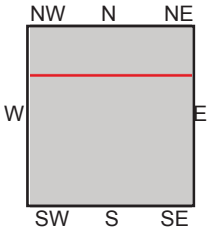
SITE NAME: 2229 4TH ST
ADDRESS: 2229 4TH ST
BERKELEY, CA 94710
CLIENT: Haley & Aldrich, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Oakland West, 1980, 7.5-minute
N, Richmond, 1980, 7.5-minute

SITE NAME: 2229 4TH ST
ADDRESS: 2229 4TH ST
BERKELEY, CA 94710
CLIENT: Haley & Aldrich, Inc.

N