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Date: April 26, 2022
Our Ref: 30062947
Subject: **First Quarter 2022 Groundwater Monitoring Report**
Chevron Facility #6518040
Former Gulf Oil Terminal
3705 Hampton Road, Oceanside, New York
NYSDEC Site #130165

Dear Mr. Scharf,

On behalf of Chevron Environmental Management Company (CEMC), Arcadis of New York, Inc. (Arcadis) has prepared this First Quarter 2022 Groundwater Monitoring Report for the New York State Department of Environmental Conservation (NYSDEC) in accordance with the Order on Consent and Administrative Settlement for the former Gulf Oil Terminal in Oceanside, New York, NYDEC Site #130165 (site; **Figure 1**). This monitoring report summarizes the February 1 and 2, 2022 groundwater sampling event. On December 7, 2017, NYSDEC and CEMC agreed to quarterly progress reporting in lieu of monthly reporting. Relevant site features and existing groundwater monitoring wells are presented on **Figure 2**.

Groundwater Gauging

On February 1, 2022, 35 monitoring wells (AMW-3, AMW-13-D1, AMW-13-D2, AMW-13-VD, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-VD, AMW-15-D3, MW-18R, MW-23-D1R, MW-23-D2R, MW-24-D1R, MW-24-D2, MW-24-VDR, MW-26-D1, MW-26-D2, MW-26-VD, MW-27-D2, MW-27-D1R, MW-28-D1, MW-28-D2R, MW-29-D1, MW-29-D2, MW-29-VD, MW-30-D1, MW-30-D2, MW-30-VD, MW-31-D1R, MW-31-D2R, MW-32D, and OW-2-D1) were gauged prior to extracting HydraSleeves™.

Monitoring wells were gauged during high tide at the site on February 1, 2022. Measured depth-to-groundwater in the D1 horizon ranged from 3.31 feet below top of inner casing (btic) in MW-29-D1 to 7.99 feet btic in MW-26-D1. Measured depth-to-groundwater in the D2 horizon ranged from 3.46 feet btic in MW-29-D2 to 8.60 feet btic in MW-23-D2R. Measured depth-to-groundwater in the VD horizon ranged from 2.95 feet btic in MW-29-VD to 8.44 feet btic in MW-26-VD. Groundwater elevation data were used to generate Groundwater Elevation Contour Maps for horizon D1, D2, and VD and are included as **Figures 3, 4, and 5**, respectively. The approximate groundwater flow direction for the D1 horizon is to the northwest, the D2 horizon is to the west, and for the VD horizon to the northwest. The well gauging data are summarized in **Table 1** and illustrated on **Figures 3, 4, and 5**.

Groundwater Sampling

On February 1 and 2, 2022, groundwater samples were collected from HydraSleeves™ that were deployed in 17 monitoring wells (AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-D3, AMW-15-VD, MW-18R, MW-23-D1R, MW-23-D2R, MW-24-D1R, MW-24-D2, MW-26-D1, MW-27-D1R, MW-27-D2, MW-28-D1 and MW-28-D2R). Monitoring well MW-29-D1 was not sampled as the HydraSleeve™ could not be located/retrieved. Prior to collection, groundwater parameters (pH, temperature, specific conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity) were collected. The groundwater samples were placed in laboratory-supplied containers, packaged on ice, and transported to Pace Analytical Inc. in Mt. Juliet, Tennessee (New York Certification #11742). Groundwater samples were collected for:

- Dissolved-phase volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C
- Total iron, sodium, and manganese by USEPA Method 6010C
- Nitrite and nitrate by USEPA Method 353.2
- Alkalinity by USEPA Method 2320 B-2011
- Sulfate and chloride by USEPA Method 9056A
- Sulfide by USEPA Method SM 4500S2 D-2011
- Total organic carbon by USEPA Method 9060A
- Ferric and ferrous iron by USEPA Method 3500 Fe B-2011
- Carbon dioxide by USEPA Method 4500CO2 D-2011
- Ethane, ethene, and methane by USEPA Method RSK-175.

The following summarizes the dissolved VOC constituents that were detected above the NYSDEC Technical and Operational Guidance Series (TOGS) guidance values in the samples collected during the Q1 2022 sampling event:

- Benzene exceeded the TOGS Water Guidance value of 1 microgram per Liter (µg/L) at monitoring wells AMW-14-D1 (4.61 µg/L), AMW-15-D1 (6.26 µg/L), AMW-15-D3 (7.72 µg/L), MW-18R (7.11 µg/L), MW-24-D1R (7.66 µg/L), MW-26-D1 (4.30 µg/L) and MW-27-D1R (2.42 µg/L).
- Ethylbenzene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring wells AMW-15-D1 (5.05 µg/L) and MW-24-D1R (5.75).
- Xylene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well MW-24-D1R (8.44 µg/L).
- Methyl tert-butyl ether (MTBE) exceeded the TOGS Water Guidance value of 10 µg/L at monitoring wells AMW-14-D1 (127 µg/L), AMW-14-D2 (29.1 µg/L), AMW-15-D1 (116 µg/L), AMW-15-D2 (32.6 µg/L), AMW-15-D3 (68.8 µg/L), MW-23-D1R (48.2 µg/L), MW-23-D2R (40.3 µg/L), MW-24-D1R (170 µg/L), MW-24-D2 (341 µg/L), and MW-26-D1 (69 µg/L), and MW-27-D1R (18.8 µg/L).
- Vinyl chloride exceeds the TOGS Water Guidance value of 2 µg/L at monitoring wells AMW-15-D3 (3.72 µg/L), MW-26-D1 (2.66 µg/L), and MW-27-D1R (27.1 µg/L).
- Trans-1,2-dichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-14-D1 (11.9 µg/L) and MW-24-D1R (8.30 µg/L).
- Trichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-15-D3 (29.9 µg/L).

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- Acetone exceeded the TOGS Water Guidance value of 50 µg/L at monitoring well AMW-15-D3 (89 µg/L). The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
- Cis-1,2-dichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-15-D3 (8.74 µg/L).

A blind duplicate sample was collected from monitoring well MW-24-D1R. Duplicate sample results were within acceptable ranges of the parent sample. The analytical results are summarized in **Table 2** and are illustrated on **Figure 6**. A Copy of the laboratory analytical report is included in **Attachment 2**. Historical groundwater analytical results are presented in **Table 3**. Following groundwater sampling, HydraSleeves™ were deployed in 17 monitoring wells.

Future Site Activities

The next quarterly sampling event will be completed in May 2022. If you have any questions regarding this progress report or require any additional information, please do not hesitate to contact me at 724.934.9501 or at edwin.ptak@arcadis.com.

Sincerely,
Arcadis U.S., Inc.



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Enclosures:

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- 3 D1 Horizon Groundwater Contour Map – February 1, 2022
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- 1 Groundwater Gauging and Sampling Logs
- 2 Laboratory Analytical Report

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Table 1
Groundwater Elevation Data – February 1, 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Monitoring Well ID	Date	Well Depth (feet below TOC)	TOC Elevation (feet NAVD 88)*	Depth to LNAPL (feet below TOC)	Depth to Groundwater (feet below TOC)	Groundwater Table Elevation (feet NAVD 88*)
Shallow Fill Unit Monitoring Wells						
AMW-3	2/1/2022	12.42	9.05	ND	6.59	2.46
AMW-7R	2/1/2022	14.42	9.95	ND	NG	NG
MW-18R	2/1/2022	10.17	7.98	ND	4.73	3.25
D1 Horizon Monitoring Wells						
AMW-13-D1	2/1/2022	34.01	9.87	ND	7.79	2.08
AMW-14-D1	2/1/2022	33.15	9.38	ND	7.38	2.00
AMW-15-D1	2/1/2022	36.20	9.74	ND	7.75	1.99
MW-23-D1R	2/1/2022	25.78	9.84	ND	7.37	2.47
MW-24-D1R	2/1/2022	32.23	9.82	ND	7.42	2.40
MW-26-D1	2/1/2022	28.80	9.95	ND	7.99	1.96
MW-27-D1R	2/1/2022	32.99	9.01	ND	6.88	2.13
MW-28-D1	2/1/2022	30.28	8.25	ND	6.42	1.83
MW-29-D1	2/1/2022	23.45	5.21	ND	3.31	1.90
MW-30-D1	2/1/2022	30.00	8.74	ND	6.88	1.86
MW-31-D1R	2/1/2022	30.04	8.39	ND	6.55	1.84
MW-32D	2/1/2022	37.45	8.85	ND	6.86	1.99
OW-2-D1	2/1/2022	33.95	9.94	ND	7.97	1.97
D2 Horizon Monitoring Wells						
AMW-13-D2	2/1/2022	43.95	9.76	ND	7.82	1.94
AMW-14-D2	2/1/2022	43.17	9.37	ND	7.35	2.02
AMW-15-D2	2/1/2022	36.20	9.71	ND	6.36	3.35
MW-23-D2R	2/1/2022	44.63	10.52	ND	8.60	1.92
MW-24-D2	2/1/2022	42.20	10.00	ND	8.02	1.98
MW-26-D2	2/1/2022	43.76	9.40	ND	7.41	1.99
MW-27-D2	2/1/2022	46.97	9.09	ND	7.02	2.07
MW-28-D2R	2/1/2022	46.69	8.40	ND	6.36	2.04
MW-29-D2	2/1/2022	39.82	5.38	ND	3.46	1.92
MW-30-D2	2/1/2022	46.63	8.72	ND	6.82	1.90
MW-31-D2R	2/1/2022	45.15	8.35	ND	6.44	1.91
D3 Horizon Monitoring Wells						
AMW-15-D3	2/1/2022	48.60	9.81	ND	7.76	2.05
VD Horizon Monitoring Wells						
AMW-13-VD	2/1/2022	71.82	9.43	ND	7.46	1.97
AMW-14-VD	2/1/2022	75.61	9.25	ND	7.19	2.06
AMW-15-VD	2/1/2022	72.15	9.82	ND	7.50	2.32
MW-24-VDR	2/1/2022	73.98	9.72	ND	7.41	2.31
MW-26-VD	2/1/2022	68.25	9.99	ND	8.44	1.55
MW-29-VD	2/1/2022	67.22	5.27	ND	2.95	2.32
MW-30-VD	2/1/2022	83.40	8.70	ND	6.11	2.59

Notes:

*Top of casing elevations were surveyed by Borbas Surveying & Mapping, LLC, September 18, 2017 and re-drilled wells on June 1, 2018.

in = Inches

TOC = top of casing

NAVD 88 = North America Vertical Datum of 1988

LNAPL = light non aqueous phase liquid

ND = not detected

NG = not gauged

Table 2
Summary of Groundwater Sampling Results – February 1-2, 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Lab Sample ID	Date Sampled	Volatile Organics										GC Volatiles - RSK-175	Inorganics			General Chemistry			
		Benzene	Toluene	Ethylbenzene	Xylene (total)	Methyl-t-butyl ether	Isopropyl-benzene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Trichloro-ethene (Trichloro-ethylene)	Vinyl Chloride Chloroethene)	Carbon Dioxide	Iron	Manganese	Sodium	Alkalinity, Total as CaCO3	Chloride	Ferric Iron	Nitrate-Nitrite
NYSDEC TOGS 1.1.1		1	5	5	5	10	5	5	5	2	NE	300	300	20,000	NE	250	NE	10,000	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L
AMW-14-D1	02/02/2022	4.61	0.320 J	4.70	1.38 J	127	0.893 J	<1.00	11.9	<1.00	<1.00	40.8 T8	5,220	94.9	1,900,000	541,000	3,090	3,840	<500
AMW-14-D2	02/02/2022	<1.00	<1.00	<1.00	<3.00	29.1	<1.00	<1.00	<1.00	<1.00	<1.00	103 T8	3,310	122	2,260,000	816,000	4,690	<100	<2,000
AMW-14-VD	02/02/2022	<1.00	<1.00	<1.00	<3.00	0.263 J	<1.00	<1.00	<1.00	<1.00	<1.00	138 T8	18,200	411	8,690,000	518,000	16,100	<100	<500
AMW-7R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMW-15-D1	02/01/2022	6.26	0.305 J	5.05	1.29 J	116	0.614 J	0.168 J	3.11	<1.00	<1.00	23.9 T8	1,150	26.7	1,280,000	496,000	2,260	767	<1,000
AMW-15-D2	02/01/2022	0.261 J	<1.00	<1.00	<3.00	32.6	<1.00	0.194 J	0.189 J	<1.00	<1.00	70.9 T8	1,450	102	1,880,000	616,000	3,510	974	<1,000
AMW-15-D3	02/01/2022	7.72	1.38	1.02	2.43 J	68.8	0.332 J	8.74	0.366 J	29.9	3.72	<20.0 T8	440	631	3,100,000	236,000	2,480	374	628 J
AMW-15-VD	02/01/2022	<1.00	<1.00	<1.00	<3.00	0.380 J	<1.00	<1.00	<1.00	<1.00	<1.00	27.6 T8	6,990	264	8,650,000	598,000	16,800	1,150	<100
MW-18R	02/02/2022	7.11	1.87	0.658 J	3.73	0.870 J	3.09	<1.00	<1.00	<1.00	<1.00	--	--	--	--	--	--	--	<500
MW-23-D1R	02/02/2022	0.110 J	<1.00	<1.00	<3.00	48.2	0.179 J	0.388 J	<1.00	<1.00	<1.00	48.6 T8	11,400	1,090	1,340,000	357,000	1,920	10,200	<1,000
MW-23-D2R	02/02/2022	0.124 J	<1.00	<1.00	<3.00	40.3	<1.00	<1.00	<1.00	<1.00	<1.00	92.6 T8	953	1,400	1,620,000	529,000	3,630	627	<1,000
MW-24-D1R	02/02/2022	7.66 [8.31]	0.598 J [0.677 J]	4.91 [5.75]	8.44 [9.73]	170 [182]	0.534 J [0.604 J]	<1.00 [<1.00]	8.30 [8.83]	<1.00 [<1.00]	0.242 J [<1.00]	58.5 T8 [59.3 T8]	2,270 [6,490]	333 [290]	1,360,000 [1,390,000]	298,000 [359,000]	2,350 [2,350]	522 [998]	<1,000 [<1,000]
MW-24-D2	02/02/2022	0.259 J	<1.00	<1.00	<3.00	341	<1.00	0.358 J	0.498 J	<1.00	<1.00	22.8 T8	355	60.2	1,680,000	740,000	2,720	<50	<500
MW-24-VDR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26-D1	02/02/2022	4.30	<1.00	0.657 J	1.13 J	69.0	0.281 J	<1.00	0.670 J	<1.00	2.66	53.8 T8	152 B	15.9	1,340,000	411,000	2,500	42.2 J	<500
MW-26-D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-27-D1R	02/02/2022	2.42	0.297 J	0.165 J	0.515 J	18.8	<1.00	0.712 J	1.80	0.208 J	27.1	109 T8	3,770	100	2,150,000	675,000	4,100	3,020	<2,000
MW-27-D2	02/02/2022	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	134 T8	12,200	1,680	4,350,000	333,000	7,580	<100	<100
MW-28-D1	02/02/2022	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0 J T8	240 B	14.3	129,000	125,000	157	52.2	1,010
MW-28-D2R	02/02/2022	<1.00	<1.00	<1.00	<3.00	0.131 J	<1.00	<1.00	<1.00	<1.00	<1.00	153 T8	5,270	2,120	4,370,000	337,000	9,970	<100	91.6 J
MW-29-D1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
ID = Identification
NYSDEC = New York State Department of Environmental Conservation
TOGS = NYSDEC Technical and Operational Guidance Series ambient water quality standards and guidance values of June 1998
<1.0 = not detected at or above the reporting limit
mg/L = milligrams per liter
ug/L = micrograms per liter
Bold = detected concentration
Shade = concentration was above the TOGS
B = The same analyte is found in the associated blank.
CaCO3 = calcium carbonate
J = Analyte was detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
T8 = Sample(s) received past/too close to holding time expiration.
NE = Not established
-- = Not sampled.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														1,4-Dichloro-benzene
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene		
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
AMW-13-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-13-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-13-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.91 J	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.180 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.606 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 1.00 J4	
	11/04/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.790 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	03/19/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.561 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/02/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	0.739 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/12/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.950 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	11/16/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.440 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/02/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.517 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 1.0	< 1.0	
AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 1.00 J4	
	11/05/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	03/19/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/02/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/12/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	11/16/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.129 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/02/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.105 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.00 J4	< 1.0	< 1.0	
AMW-14-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<1.0	
	12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 J	<1.0	<1.0	<1.0	
	02/12/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 J	<1.0	<1.0	<1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/20/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	0.350 J	<1.00	<1.00 J4	<1.00 J4	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	0.119 J	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	0.221 J	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	0.293 J	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	
	AMW-15-D1	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
07/27/2016		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
10/26/2016		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
10/26/2016		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
07/05/2017		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
08/27/2017		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
10/11/2017		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
10/17/2018		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
05/09/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
09/13/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/11/2020		< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/10/2020		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
08/19/2020		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00 J4	<5.00	<5.00	<5.00	<5.00	
11/04/2020		<1.00	<1.00	<1.00	<1.00	<1.00	0.325 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
03/19/2021		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
06/02/2021		<1.00 J3	<1.00	<1.00	<1.00	<1.00 J3	<1.00	<1.00 J3	<5.00	<1.00 J3	<1.00	<1.00 J3	<1.00	<1.00	<1.00	
11/16/2021		<1.00	<1.00	<1.00	<1.00	<1.00	0.665 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
02/01/2022	<1.00	<1.00	<1.00	<1.00	<1.00	0.657 J	<1.00 C3	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
AMW-15-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
02/01/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.187 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.104 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.139 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/01/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	AMW-15-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
07/27/2016		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
08/27/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
10/11/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
07/13/2018		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
10/17/2018		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
05/10/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
09/13/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/11/2020		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/09/2020		<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
08/19/2020		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	0.144 J	<1.00	<1.00	<1.00	
11/04/2020		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
03/19/2021		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
06/02/2021		<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	0.101 J	<1.00	<1.00	<1.00	
08/12/2021		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
02/01/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
AMW-3	01/13/2016	< 5.0	< 5.0	< 5.0	4.8 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/11/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
ASB-2	06/06/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-4	06/07/2016	4.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
ASB-5	06/02/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<5.00	<5.00	<5.00	<5.00 J4	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-23-D1R	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/26/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 C3	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-23-D2R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														1,4-Dichloro-benzene
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene		
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-23-D2R (cont.)	03/18/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-24-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/16/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	0.72 J [0.69 J]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	12/05/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	0.36 J [0.71 J]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	02/11/2020	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 * [<1.0]	< 1.0 * [<1.0]	< 1.0 [<1.0]	0.46 J [0.59 J]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	06/09/2020	<5.00 [<5.00]	<5.00 [<5.00]	22	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	
	08/19/2020	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	<5.00 J4 [<5.00 J4]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	
	11/05/2020	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	
	03/19/2021	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	0.457 J [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	
	06/01/2021	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 J4 [<5.00]	0.406 J [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	
	11/16/2021	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00 C3]	<1.00 [<1.00]	<1.00 [<1.00]	0.327 J [0.365 J]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	
	02/02/2022	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	0.331 J [0.363 J]	1.00 C3 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	
	MW-24-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		10/25/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		07/05/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
		08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
		10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
10/17/2018		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
05/09/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
09/13/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	
02/11/2020		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/09/2020		<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.293 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
08/18/2020		<1.00	<1.00	<1.00	<1.00	<1.00	0.210 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
11/05/2020		<1.00	<1.00	<1.00	<1.00	<1.00	0.553 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
03/19/2021		<1.00	<1.00	<1.00	<1.00	<1.00	0.611 J	<1.00	<5.00	<1.00	<1.00	<1.00	1.08	<1.00	<1.00	
06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.467 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.324 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	0.354 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
MW-24-VDR	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														1,4-Dichloro-benzene 3
		1,1 Dichloro-ethene 5	1,1,1-Trichloro-ethene 5	1,1,2,2-Tetrachloro-ethene 5	1,1,2-Trichloro-ethene 1	1,1,2-Trichlorotrifluoroethane (Freon 113) 5	1,1-Dichloro-ethene 5	1,2,4-Trichloro-benzene 5	1,2-Dibromo-3-chloropropane (DBCP) 0.04	1,2-Dibromo-ethane 0.0006	1,2-Dichloro-benzene (o-Dichloro-benzene) 3	1,2-Dichloro-ethane 0.6	1,2-Dichloro-propane 1	1,3-Dichloro-benzene 3		
		NYSDEC TOGS 1.1.1	5	5	5	1	5	5	0.04	0.0006	3	0.6	1	3		
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-24-VDR (cont.)	08/18/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.285 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.218 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.159 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.403 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.302 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	
	MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
06/22/2016		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
10/25/2016		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
10/25/2016		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
07/05/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
08/27/2017		< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
10/11/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
10/17/2018		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
05/09/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
09/13/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/06/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/11/2020		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/10/2020		<1.00	<1.00	<1.00	<1.00	<1.00	0.102 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
08/19/2020		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
11/16/2021		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														1,4-Dichloro-benzene
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene		
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-27-D1R (cont.)	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00 J4	<5.00 J4	
	11/06/2020	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.359 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.278 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.268 J	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.353 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	0.325 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.430 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.483 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.118 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.242 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.149 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	0.282 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00		
MW-28-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.76 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.209 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.172 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.741 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.163 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.213 J	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	
MW-28-D2R	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.155 J	<1.00	<5.00	<1.00	0.205 J	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.186 J	<1.00	<5.00	<1.00	0.251 J	<1.00	<1.00	<1.00 J4	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.342 J	<1.00	<5.00	<1.00	0.109 J	<1.00	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.217 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.211 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.147 J	<1.00 J4	<5.00	<1.00	0.401 J	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.180 J	<1.00	<5.00	<1.00	0.392 B J	<1.00	<1.00	<1.00	<1.00	
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	0.256 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	
MW-29-D1	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-29-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D1R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-12	01/14/2016	< 50	< 25	< 25	25 J	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
AMW-13-D1	06/24/2016	< 10	< 5.0	< 5.0	6.5 J	< 1.0	0.99 J	3.4	< 1.0	2.7	< 1.0	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	3.4 J	4.5	< 1.0	1.1	< 1.0	2.8	< 1.0	< 1.0	< 1.0
AMW-13-D2	06/23/2016	< 10	< 5.0	3.3 J	3.2 J	< 1.0	0.97 J	4.2	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	4.8 J	< 1.0	< 1.0	0.62 J	< 1.0	12	< 1.0	< 1.0	< 1.0
AMW-13-VD	06/23/2016	3.2 J	< 5.0	< 5.0	18	< 1.0	< 1.0	3.1	< 1.0	1.5	< 1.0	< 1.0	< 1.0
	07/27/2016	5.8 J	< 5.0	2.4 J	46	< 1.0	< 1.0	< 1.0	< 1.0	7.9	< 1.0	< 1.0	< 1.0
AMW-14-D1	06/24/2016	< 10	< 5.0	< 5.0	4.6 J	< 1.0	0.85 J	2.5	< 1.0	2.6	< 1.0	< 1.0	< 1.0
	07/26/2016	< 10	< 5.0	< 5.0	3.9 J	4.3	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0
	07/05/2017	< 40	< 20	< 20	< 40	2.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 20	< 10	< 10	< 20	4.7	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0
	07/12/2018	< 80	< 40	< 40	< 80	5.3 J	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
	10/17/2018	< 50	< 10	< 10	< 25	0.98 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	7.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 5.0	< 5.0	< 5.0	< 5.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	< 10.0	< 10.0	< 10.0	< 50.0	0.533 J	< 1.00	< 1.00	< 5.00	0.294 J	< 1.00	< 1.00	< 5.00
	08/19/2020	< 10.0	< 10.0	< 10.0	< 50.0	5.40	< 1.00	< 1.00	< 5.00	0.615 J	< 1.00	< 1.00	< 5.00
	11/04/2020	< 10.0	< 10.0	< 10.0	< 50.0	7.94	< 1.00	< 1.00 C3 J4	< 5.00	< 1.00	< 1.00 C3	< 1.00	< 5.00
	03/19/2021	< 10.0	< 10.0	1.41 J	< 50.0	3.41	< 1.00	< 1.00 C3	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00
	06/02/2021	< 10.0 C3	< 10.0	< 10.0	< 50.0 C3	6.24	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00
	08/12/2021	< 10.0	< 10.0	< 10.0	< 50.0	5.51	< 1.00	< 1.00	< 5.00	0.713 J	< 1.00	< 1.00	< 5.00
	11/16/2021	< 10.0	< 10.0	< 10.0	< 50.0 C3	2.10	< 1.00	< 1.00	< 5.00	1.66	< 1.00	< 1.00	< 5.00
	02/02/2022	< 10.0	< 10.0	0.952 J	< 50.0 J4	4.61	< 1.00	< 1.00	< 5.00 C3	1.77	< 1.00	< 1.00	< 5.00
	AMW-14-D2	06/23/2016	< 10	< 5.0	3.2 J	3.3 J	< 1.0	0.99 J	4.6	< 1.0	5.5	< 1.0	< 1.0
07/26/2016		< 10	< 5.0	< 5.0	3.1 J	0.88 J	< 1.0	1.3	< 1.0	12	< 1.0	< 1.0	< 1.0
07/27/2016		< 10	< 5.0	< 5.0	9.6 J	< 1.0	< 1.0	< 1.0	< 1.0	8.4	< 1.0	< 1.0	< 1.0
08/27/2017		< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0
10/11/2017		< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0
07/12/2018		< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
10/17/2018		< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
05/10/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0
09/13/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
12/05/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
02/12/2020		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
06/10/2020		< 100	< 100	< 100	< 500	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 50.0
08/19/2020		< 100	< 100	< 100	< 500	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 50.0
11/05/2020		< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	0.533 J	< 1.00	< 1.00	< 5.00
03/19/2021		< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00 C3	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00
06/02/2021		< 10.0 C3	< 10.0	< 10.0	< 50.0 C3	0.249 BJ	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00
08/12/2021		< 10.0	< 10.0	< 10.0	< 50.0 C3	< 1.00	< 1.00	< 1.00 C3	< 5.00	1.10 B	< 1.00	< 1.00	< 5.00
11/16/2021		< 10.0	< 10.0	< 10.0	< 50.0 C3	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00
02/02/2022		< 10.0	< 10.0	< 10.0	< 50.0 J4	< 1.00	< 1.00	< 1.00	< 5.00 C3	< 1.00	< 1.00	< 1.00	< 5.00
AMW-14-VD		06/23/2016	3.9 J	< 5.0	2.1 J	22	< 1.0	0.87 J	3	< 1.0	0.63 J	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	8.9 J	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 1.0	< 1.0	< 1.0
	07/05/2017	< 10	< 5.0	< 5.0	3.7 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/11/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0
	07/12/2018	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-14-VD (cont.)	10/17/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/13/2019	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/05/2019	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	02/12/2020	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/10/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00
	08/20/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/05/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00
	03/19/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.120 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	1.23 B	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	<1.00	<1.00	<1.00	<5.00 C3	<1.00	<1.00	<1.00	<5.00
AMW-15-D1	06/23/2016	< 10	< 5.0	2.1 J	4.2 J	0.48 J	< 1.0	2.2	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0
	07/27/2016	< 50	< 25	< 25	< 50	3.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	10/26/2016	< 100	< 50	< 50	< 100	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	10/26/2016	< 40	< 20	< 20	< 40	5.1	< 4.0	< 4.0	< 4.0	1.7 J	< 4.0	< 4.0	< 4.0
	07/05/2017	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 40	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	2.7 J	< 4.0	< 4.0	< 4.0
	10/11/2017	< 20	< 10	< 10	< 20	11	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0
	10/17/2018	< 250	< 50	< 50	< 130	12	< 5.0	< 5.0	< 5.0	1.7 J	< 5.0	< 5.0	< 5.0
	05/09/2019	<5.0	<5.0	<5.0	<5.0	6.3	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0
	09/13/2019	<5.0	<5.0	<5.0	<5.0	6.2	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	<5.0	<5.0	<5.0	<5.0	6.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	<5.0	<5.0	<5.0	<5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<50.0	<50.0	<50.0	<250	6.35	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<25.0
	08/19/2020	<50.0	<50.0	<50.0	<250	4.70 J	<5.00	<5.00	<25.0	6.45	<5.00	<5.00	<25.0
	11/04/2020	<10.0	<10.0	<10.0	<50.0	3.55	<1.00	<1.00	<5.00	0.777 J	<1.00	<1.00	<5.00
	03/19/2021	<50.0	<50.0	<50.0	<250	5.80	<5.00	<5.00 C3	<25.0	<5.00	<5.00	<5.00	<25.0
	06/02/2021	<10.0 J3	<10.0	<10.0 J3	<50.0	1.74	<1.00 J3	<1.00	3.35 J	0.320 J	<1.00	<1.00 J3	<5.00 J3
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	6.78	<1.00	<1.00	<5.00	1.42	<1.00	<1.00	<5.00
	02/01/2022	<10.0	<10.0	<10.0	<50.0	6.26	<1.00	<1.00	<5.00	0.394 J	<1.00	<1.00	<5.00
AMW-15-D2	06/23/2016	< 10	< 5.0	< 5.0	9.3 J	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 1.0
	06/23/2016	1.3 J	< 5.0	< 5.0	11	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	3.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0
	10/26/2016	< 10	< 5.0	< 5.0	13	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0
	10/26/2016	< 10	< 5.0	< 5.0	5.1 J	0.47 J	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0
	07/05/2017	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 40	< 20	< 20	< 40	9.8	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/17/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	0.123 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	0.102 J	<1.00	<1.00	<5.00	2.33	<1.00	<1.00	<5.00
	11/04/2020	<10.0	<10.0	<10.0	<50.0	0.529 J	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00
	03/19/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.230 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.824 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	4.08 B	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	0.538 J	<1.00	<1.00	<5.00	0.885 J	<1.00	<1.00	<5.00
	02/01/2022	<10.0	<10.0	<10.0	<50.0	0.261 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
		50	50	NE	50	1	50	50	5	60	5	5	5
NYSDEC TOGS 1.1.1		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-15-D3	06/23/2016	< 10	< 5.0	< 5.0	6.9 J	< 1.0	< 1.0	< 1.0	< 1.0	4.4	< 1.0	< 1.0	< 1.0
	06/23/2016	< 10	< 5.0	< 5.0	7.3 J	< 1.0	< 1.0	< 1.0	< 1.0	4.6	< 1.0	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	3.6 J	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0
	08/27/2017	< 40	< 20	< 20	36 J	3.7 J	< 4.0	< 4.0	< 4.0	1.8 J	< 4.0	< 4.0	< 4.0
	10/11/2017	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 20	< 10	< 10	16 J	< 2.0	< 2.0	< 2.0	< 2.0	0.70 J	< 2.0	< 2.0	< 2.0
	10/17/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0
	05/10/2019	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0
	09/13/2019	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	<5.0	<5.0	<5.0	<5.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.318 J	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	0.664 J	<1.00	<1.00	<5.00	1.93	<1.00	<1.00	<5.00
	11/04/2020	<10.0	<10.0	<10.0	<50.0	0.430 J	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00
	03/19/2021	11.0	<10.0	0.640 J	62.4	12.8	<1.00	<1.00	<5.00	1.23	<1.00	<1.00	<5.00
	06/01/2021	3.00 C3J	<10.0	<10.0	17.1 C3J	2.75	<1.00	<1.00	<5.00	1.29	<1.00	<1.00	<5.00
	08/12/2021	22.8	<10.0	0.960 J	84.1 C3	15.4	<1.00	<1.00 C3	<5.00	5.26	<1.00	<1.00	<5.00
	11/16/2021	16.2	<10.0	0.843 J	60.5 C3	9.89	<1.00	<1.00	<5.00	2.96	<1.00	<1.00	<5.00
	02/01/2022	18.6 C5	<10.0	0.808 J	89.0	7.72	<1.00	<1.00	<5.00	1.89	<1.00	<1.00	<5.00
AMW-15-VD	06/23/2016	< 10	< 5.0	< 5.0	3.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/27/2016	< 10	< 5.0	< 5.0	8.3 J	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/11/2017	< 10	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/13/2018	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/17/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/04/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00
	03/19/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.120 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	3.67 J	<10.0	<10.0	16.8 C3J	<1.00	<1.00	<1.00 C3	<5.00	1.47 B	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	02/01/2022	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	AMW-3	01/13/2016	< 50	< 25	< 25	< 50	280	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
06/21/2016		3.4 J	< 5.0	< 5.0	21	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0
AMW-7R	01/12/2016	< 50	< 25	< 25	30 J	5.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 10	< 5.0	< 5.0	6.2 J	1.1	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0
	07/11/2018	< 20	< 10	< 10	< 20	0.82 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/17/2018	< 50	< 10	< 10	8.1 J	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	<5.0	<5.0	<5.0	<5.0	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	<5.0	<5.0	<5.0	<5.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	<5.0	<5.0	<5.0	<5.0	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	<5.0	<5.0	<5.0	<5.0	0.82 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	0.926 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	0.566 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	0.214 J	<1.00	<1.00 C3	<5.00 C3	0.271 J	<1.00	<1.00	<5.00

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics												
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<10.0	<10.0	<10.0	<50.0	0.0960 J	<1.00	<1.00	<5.00	0.140 J	<1.00	<1.00	<5.00	
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	1.08 B	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	0.109 J	<1.00	<1.00 C3	<5.00	1.06 B	<1.00	<1.00	<5.00	
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	0.124 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
ASB-2	06/06/2016	< 10	< 5.0	6	20	1.8	1.9	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	< 10	< 5.0	< 5.0	5.5 J	< 1.0	0.75 J	2.4	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	
ASB-4	06/07/2016	< 50	< 25	< 25	< 50	3.0 J	< 5.0	< 5.0	< 5.0	0.95 J	< 5.0	< 5.0	< 5.0	
ASB-5	06/02/2016	1.4 J	< 5.0	5	12	< 1.0	1.5	< 1.0	< 1.0	0.53 J	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	< 20	< 10	5.3 J	< 20	< 2.0	3.3	< 2.0	< 2.0	1.1 J	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 100	< 50	< 50	< 100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	07/11/2018	74 J	< 100	< 100	330	48	< 20	< 20	< 20	6.2 J	< 20	< 20	< 20	
	10/17/2018	70 J	< 50	< 50	230	69	< 5.0	< 5.0	< 5.0	2.4 J	< 5.0	< 5.0	< 5.0	
	09/14/2019	10	< 5.0	2.2 J	47	85	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	< 1.0	
	12/05/2019	33	3.7 J	2.9 J	130	74	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 5.0	< 5.0	< 5.0	19	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	10.7 J	<50.0	<50.0	<250	27.0	<5.00	<5.00	<25.0	1.26 J	<5.00	<5.00 J4	<25.0	
	03/19/2021	12.6	1.62 J	1.76 J	44.4 J	8.34	<1.00	<1.00	<5.00	1.28	<1.00	<1.00	<5.00	
	06/02/2021	3.59 C3J	<10.0	0.967 J	16.8 C3J	8.23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	14.0	<10.0	2.81 J	68.6	33.2	<1.00	<1.00	<5.00	2.58	<1.00	<1.00	<5.00	
	11/16/2021	5.30 J	<10.0	1.95 J	16.2 C3 J	45.3	<1.00	<1.00	<5.00	1.98	<1.00	<1.00	<5.00	
	02/02/2022	6.33 J	<10.0	1.05 J	17.3 J	7.11	<1.00	<1.00	<5.00	1.21	<1.00	<1.00	<5.00	
	MW-23-D1R	10/26/2016	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	0.53 J	< 2.0	< 2.0	< 2.0
		10/26/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		01/12/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
06/20/2016		< 10	< 5.0	< 5.0	6.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
07/05/2017		< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
08/27/2017		< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
10/12/2017		< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
07/12/2018		< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
10/17/2018		< 50	< 10	< 10	< 25	3.8	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	
09/13/2019		< 5.0	< 5.0	< 5.0	< 5.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 5.0	< 5.0	< 5.0	< 5.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/11/2020		< 5.0	< 5.0	< 5.0	< 5.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/10/2020		<10.0	<10.0	<10.0	<50.0	0.408 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
08/19/2020		<10.0	<10.0	<10.0	<50.0	0.312 J	<1.00	<1.00	<5.00	0.671 J	<1.00	<1.00	<5.00	
11/05/2020		<10.0	<10.0	<10.0	<50.0	0.0955 J	<1.00	<1.00 C3	<5.00 C3	0.400 J	<1.00	<1.00	<5.00	
03/19/2021	<10.0	<10.0	<10.0	<50.0	0.150 J	<1.00	<1.00	<5.00	0.142 J	<1.00	<1.00	<5.00		
06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.158 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00		
08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	0.151 J	<1.00	<1.00 C3	<5.00	8.06	<1.00	<1.00	<5.00		
11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	1.06	<1.00	<1.00	<5.00		
02/02/2022	<10.0	<10.0	<10.0	<50.0	0.110 J	<1.00	<1.00	<5.00	0.202 J	<1.00	<1.00	<5.00		
MW-23-D2R	01/12/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 10	< 5.0	< 5.0	23	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 10	< 5.0	< 5.0	4.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 5.0	< 5.0	< 5.0	< 5.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 5.0	< 5.0	< 5.0	< 5.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<10.0	<10.0	<10.0	<50.0	0.407 J	<1.00	<1.00	<5.00	0.253 J	<1.00	<1.00	<5.00	
	11/05/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.447 J	<1.00	<1.00	<5.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics												
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-23-D2R (cont.)	03/18/2021	<10.0	<10.0	<10.0	<50.0	0.110 J	<1.00	<1.00	<5.00	0.119 J	<1.00	<1.00	<5.00	
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.0948 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	0.134 J	<1.00	<1.00 C3	<5.00	4.96	<1.00	<1.00	<5.00	
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	0.0984 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	02/02/2022	<10.0	<10.0	<10.0	<50.0	0.124 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
MW-24-D1R	01/13/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 40	< 20	< 20	< 40	5.4	< 4.0	< 4.0	< 4.0	1.6 J	< 4.0	< 4.0	< 4.0	
	10/26/2016	< 10	< 5.0	< 5.0	< 10	4.1	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 10	< 5.0	< 5.0	< 10	4.9	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 80	< 40	< 40	< 80	11	< 8.0	< 8.0	< 8.0	2.1 J	< 8.0	< 8.0	< 8.0	
	10/16/2018	< 250	< 50	< 50	< 130	8.3	< 5.0	< 5.0	< 5.0	1.4 J	< 5.0	< 5.0	< 5.0	
	05/09/2019	< 5.0	< 5.0	< 5.0	< 5.0	1.5	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	<5.0 [<5.0]	<5.0 [<5.0]	13 [13]	< 1.0 [<1.0]	<1.0* [$<1.0^*$]	< 1.0 [<1.0]	3.2 [1.8]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	12/05/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	<5.0 [<5.0]	9.4	5.7 [11]	< 1.0 [<1.0]	<1.0 [<1.0]	< 1.0 [<1.0]	1.0 [1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	02/11/2020	<5.0 [<5.0]	<5.0 [<5.0]	<5.0 [<5.0]	6[<5.0]	8.9 [13]	< 1.0 [<1.0]	<1.0 [<1.0]	< 1.0 [<1.0]	1.5 [1.4]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	
	06/09/2020	<50.0 [<50.0]	<50.0 [<50.0]	<50.0 [<50.0]	<250 [<250]	10.3 [11.7]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	
	08/19/2020	<50.0 [<50.0]	<50.0 [<50.0]	<50.0 [<50.0]	<250 [<250]	10.2 [9.74]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	8.28 [3.68 J]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	
	11/05/2020	<50.0 [<50.0]	<50.0 [<50.0]	<50.0 [<50.0]	<250 [<250]	10.9 [8.99]	<5.00 [<5.00]	<5.00 C3 [<5.00 C3]	<25.0 C3 [<25.0 C3]	2.27 J [2.18 J]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	
	03/19/2021	<10.0 [<50.0]	<10.0 [<50.0]	0.587 J[<50.0]	<50.0 [<250]	11.3 [11.5]	<1.00 [<5.00]	<1.00 [<5.00] [<5.00 C3]	<5.00 [<25.0]	0.811 J [<5.00]	<1.00 [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	
	06/01/2021	0.0 C3 [<50.0]	<10.0 [<50.0 C3]	<10.0 [<50.0 C3]	<50.0 C3 [<250]	10.7 [9.19]	<1.00 [<5.00]	<1.00 [<5.00]	<5.00 [<25.0 C3]	<1.00 [0.994 J]	<1.00 [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	
	11/16/2021	<10.0 [<10.0]	<10.0 [<10.0]	0.529 J [0.584 J]	<50.0 C3 [<50.0 J4]	8.94 [8.91]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	2.66 [1.36]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	
	02/02/2022	<10.0 [<10.0]	<10.0 [<10.0]	<10.0 [<10.0]	<50.0 [<50.0]	7.66 [8.31]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	1.39 [1.29]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	
	MW-24-D2	01/13/2016	< 50	< 25	< 25	< 50	3.3 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		01/13/2016	< 50	< 25	< 25	< 50	3.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
06/21/2016		< 10	< 5.0	< 5.0	< 10	0.97 J	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	
10/25/2016		< 40	< 20	< 20	62	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
10/25/2016		< 50	< 25	< 25	56	3.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
07/05/2017		< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
08/27/2017		< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
10/11/2017		< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
07/12/2018		< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
10/17/2018		< 50	< 10	< 10	2.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	
05/09/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
09/13/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 5.0	< 5.0	< 5.0	5.2	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/11/2020		< 5.0	< 5.0	< 5.0	< 5.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/09/2020		<10.0	<10.0	<10.0	<50.0	0.367 J	<1.00	<1.00	<5.00	0.167 J	<1.00	<1.00 J4	<5.00	
08/18/2020		<10.0	<10.0	<10.0	<50.0	0.227 J	<1.00	<1.00	<5.00	0.266 J	<1.00	<1.00	<5.00	
11/05/2020		<10.0	<10.0	<10.0	<50.0	0.581 J	<1.00	<1.00 C3	<5.00 C3	0.931 J	<1.00	<1.00	<5.00	
03/19/2021		<10.0	<10.0	<10.0	<50.0	0.662 J	<1.00	<1.00	<5.00	0.376 J	<1.00	<1.00	<5.00	
06/01/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.681 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00		
11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	0.406 J	<1.00	<1.00	<5.00	1.19	<1.00	<1.00	<5.00		
02/02/2022	<10.0	<10.0	<10.0	<50.0	0.259 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00		
MW-24-VDR	07/12/2018	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.64 J	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 5.0	< 5.0	< 5.0	5.5	7.2	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.347 J	<1.00	<1.00 J4	<5.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
		NYSDEC TOGS 1.1.1 50 Units ug/L	50 ug/L	NE ug/L	50 ug/L	1 ug/L	50 ug/L	50 ug/L	5 ug/L	60 ug/L	5 ug/L	5 ug/L	5 ug/L
MW-24-VDR (cont.)	08/18/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00		<5.00	0.394 J	<1.00	<1.00	<5.00
	11/05/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.423 J	<1.00	<1.00	<5.00
	03/19/2021	<10.0	<10.0	2.68 J	139	<1.00	<1.00	<1.00	<5.00	0.150 J	<1.00	<1.00	<5.00
	06/01/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.126 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	0.125 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
MW-26-D1	01/12/2016	< 50	< 25	< 25	< 50	9.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/22/2016	< 40	< 20	< 20	< 40	9.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/25/2016	< 100	< 50	< 50	< 100	8.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	10/25/2016	< 40	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/05/2017	< 100	< 50	< 50	< 100	8.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	08/27/2017	< 100	< 50	< 50	< 100	9.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	10/11/2017	< 20	< 10	< 10	6.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 20	< 10	< 10	< 20	17	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/17/2018	< 50	< 10	< 10	< 25	4.9	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	9.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	7.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<10.0	<10.0	<10.0	<50.0	8.93	<1.00	<1.00	<5.00	0.773 J	<1.00	<1.00	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	6.46	<1.00	<1.00	<5.00	0.360 J	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	5.88	<1.00	<1.00 C3	<5.00 C3	0.582 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	8.13	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0	5.78	<1.00	<1.00	<5.00	0.556 J	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	5.60	<1.00	<1.00	<5.00	1.38	<1.00	<1.00	<5.00
	02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	4.30	<1.00	<1.00	<5.00 C3	0.625 J	<1.00	<1.00	<5.00
MW-26-D2	01/12/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/22/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0
	10/25/2016	< 20	< 10	< 10	9.4 J	< 2.0	< 2.0	< 2.0	< 2.0	0.60 J	< 2.0	< 2.0	< 2.0
	10/25/2016	< 20	< 10	< 10	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/05/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
	10/11/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/17/2018	< 50	< 10	< 10	< 25	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/09/2019	< 5.0	< 5.0	< 5.0	< 5.0	0.79 J	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.204 J	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	0.770 J	<1.00	<1.00	<5.00
MW-26-VD	01/13/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 10	< 5.0	< 5.0	170	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0
MW-27-D1R	01/13/2016	< 50	< 25	< 25	53	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	1.7 J	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0
	07/05/2017	< 20	< 10	< 10	< 20	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	08/27/2017	< 20	< 10	< 10	< 20	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 20	< 10	< 10	< 20	7.8	< 2.0	< 2.0	< 2.0	0.64 J	< 2.0	< 2.0	< 2.0
	10/18/2018	< 50	< 10	< 10	< 25	3.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 5.0	< 5.0	< 5.0	< 5.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-27-D1R (cont.)	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	6.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/19/2020	<50.0	<50.0	<50.0	<250	3.12 J	<5.00	<5.00	<25.0	0.852 J	<5.00	<5.00	<25.0
	11/06/2020	<50.0	<50.0	<50.0	<250	2.58 J	<5.00	<5.00 C3	<25.0 C3	1.74 J	<5.00	<5.00	<25.0
	03/20/2021	<10.0	<10.0	<10.0	<50.0	2.56	<1.00	<1.00 C3	<5.00	<1.00	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	3.98	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	3.05	<1.00	<1.00 C3	<5.00	10.7	<1.00	<1.00	<5.00
	11/17/2021	<10.0	<10.0	<10.0	<50.0 C3	5.67	<1.00	<1.00	<5.00	1.34	<1.00	<1.00	<5.00
	02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	2.42	<1.00	<1.00	<5.00 C3	1.27	<1.00	<1.00	<5.00
MW-27-D2	01/13/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	8.2 J	< 20	< 20	38 J	160	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/05/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/12/2017	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/13/2018	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/18/2018	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.133 J	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	<1.00	<1.00	<1.00	<5.00
	03/20/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.155 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.263 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	0.421 B J	<1.00	<1.00	<5.00
	11/17/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	<1.00	<1.00	<1.00	<5.00 C3	<1.00	<1.00	<1.00	<5.00	
MW-28-D1	06/24/2016	2.3 J	< 5.0	< 5.0	45	2.1	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0
	07/28/2016	< 100	< 50	< 50	280	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	07/05/2017	< 10	< 5.0	< 5.0	< 10	8.9	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 40	< 20	< 20	< 40	3.7 J	< 4.0	< 4.0	< 4.0	4.9	< 4.0	< 4.0	< 4.0
	10/17/2018	< 50	< 10	< 10	9.3 J	5.6	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0
	05/09/2019	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0
	09/13/2019	< 5.0	< 5.0	< 5.0	< 5.0	9.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 5.0	< 5.0	< 5.0	< 5.0	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	17.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	9.35	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	5.03	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	24.3	<1.00	<1.00 C3	<5.00 C3	<1.00	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	4.45	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	5.94	<1.00	<1.00 C3	<5.00	6.60	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	6.10	<1.00	<1.00	<5.00	1.38	<1.00	<1.00	<5.00
	02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	<1.00	<1.00	<1.00	<5.00 C3	<1.00	<1.00	<1.00	<5.00
	MW-28-D2R	06/24/2016	< 10	< 5.0	< 5.0	3.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
07/28/2016		< 10	< 5.0	< 5.0	4.4 J	< 1.0	1.2	5.6	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0
07/05/2017		< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0
08/27/2017		< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
10/11/2017		< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.95 J	< 1.0	< 1.0	< 1.0
07/13/2018		< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	1.0 J	< 4.0	< 4.0	< 4.0
10/17/2018		< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
05/09/2019		< 5.0	< 5.0	< 5.0	< 5.0	0.50 J	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0
09/13/2019		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics											
		2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane
NYSDEC TOGS 1.1.1		50	50	NE	50	1	50	50	5	60	5	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28-D2R (cont.)	12/06/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 5.0	< 5.0	< 5.0	< 5.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.781 J	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.404 J	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.424 J	<1.00	<1.00	<5.00
	03/20/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.102 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	<10.0	<50.0 C3	0.174 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	1.48 B	<1.00	<1.00	<5.00
	11/16/2021	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	1.57	<1.00	<1.00	<5.00
MW-28-D2R	02/02/2022	<10.0	<10.0	<10.0	<50.0 J4	<1.00	<1.00	<1.00	<5.00 C3	1.12	<1.00	<1.00	<5.00
MW-29-D1	01/14/2016	< 50	< 25	< 25	25 J	81	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 10	< 5.0	< 5.0	9.5 J	6.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/26/2016	< 10	< 5.0	< 5.0	< 10	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/26/2016	< 10	< 5.0	< 5.0	< 10	5.5	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0
	07/05/2017	< 20	< 10	< 10	< 20	9.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	08/27/2017	< 20	< 10	< 10	< 20	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/12/2017	< 40	< 20	< 20	< 40	4.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/13/2018	< 40	9.1 J	< 20	< 40	5.2	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/18/2018	< 50	< 10	< 10	< 25	3.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 5.0	< 5.0	< 5.0	< 5.0	9.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 5.0	< 5.0	< 5.0	< 5.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.307 J	<1.00	<1.00 J4	<5.00
	08/19/2020	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	11/06/2020	<10.0	<10.0	<10.0	<50.0	0.110 J	<1.00	<1.00 C3	<5.00 C3	0.364 J	<1.00	<1.00	<5.00
	03/20/2021	<10.0	<10.0	0.488 J	<50.0	<1.00	<1.00	<1.00	<5.00	0.130 J	<1.00	<1.00	<5.00
	06/02/2021	<10.0 C3	<10.0	0.628 J	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00
	08/12/2021	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.412 J	<1.00	<1.00	<5.00
MW-29-D2	01/14/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/21/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0
MW-29-VD	01/14/2016	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	06/21/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30-D1	01/14/2016	< 10	< 5.0	< 5.0	< 10	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0
MW-30-D2	01/14/2016	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	01/14/2016	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	06/22/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30-VD	01/14/2016	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	06/22/2016	< 10	< 5.0	< 5.0	5.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-31-D1R	01/14/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 10	< 5.0	< 5.0	11	1.1	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0
MW-31-D2R	01/14/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0	24	< 13	32.0	5.4	< 5.0	< 5.0
AMW-13-D1	06/24/2016	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 2.5	10	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	1.8	< 1.0	< 2.5	63 F1	< 1.0	< 1.0	< 1.0
AMW-13-D2	06/23/2016	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	3.5	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	< 2.5	41	< 1.0	< 1.0	< 1.0
AMW-13-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 2.5	5	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	3.4	< 1.0	< 1.0	< 1.0
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	< 2.5	12	< 1.0	< 1.0	< 1.0
	07/26/2016	< 1.0	< 1.0	1	< 1.0	1.9	< 1.0	< 1.0	3.6	< 1.0	< 2.5	140 E	0.97 J	< 1.0	< 1.0
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	170	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	170	< 4.0	< 4.0	< 4.0
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	7.2	< 2.0	< 5.0	170	2.4	0.95 J	< 2.0
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	7.5 J	< 8.0	< 20	160	1.7 J	< 8.0	< 8.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1	< 1.0	< 10	120	0.40 J	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	5.9	1.0	< 5.0	250	3.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 5.0	50	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 5.0	94	0.74 J	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	0.3 J	< 1.0 *	0.88 J	< 1.0 *	< 1.0	2.7	0.44 J	< 5.0	130	1.2	< 1.0	< 1.0
	06/10/2020	< 5.00	< 2.50	0.427 J	< 1.00	< 1.00	< 1.00	< 5.00	0.486 J	0.172 J	< 20.0	37.6	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	6.29	1.08	< 20.0	181	3.18	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	0.221 J	< 1.00	2.02	< 1.00	< 5.00	6.53	1.18	< 20.0	190	3.97	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50 C3	0.214 J	< 1.00	1.33	< 1.00	< 5.00	3.34	0.698 J	< 20.0	53.9	1.86	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	0.144 J	< 1.00	2.30 C5J4	< 1.00	< 5.00	6.68	1.26	< 20.0 C3	164	5.18	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50 J4	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	5.46	0.901 J	< 20.0	140	3.53	< 5.00	< 1.00
11/16/2021	< 5.00	< 2.50	0.227 J	< 1.00	1.16	< 1.00	< 5.00	2.18	0.516 J	< 20.0	55.8	< 1.00	< 5.00	< 1.00	
02/02/2022	< 5.00	< 2.50 J3	< 1.00	< 1.00	1.61	< 1.00	< 5.00	4.70	0.893 J	< 20.0	127	3.71	< 5.00	< 1.00	
AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	3.1	< 1.0	< 1.0	< 1.0
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	< 2.5	24	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.58 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	14	0.27 J	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	48	< 1.0	< 1.0	< 1.0
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	62	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	44	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	33	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	37	< 1.0	0.59 J	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	29	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	36	< 1.0	< 1.0	< 1.0
	06/10/2020	< 50.0	< 25.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200	33.2	< 10.0	< 50.0	< 10.0
	08/19/2020	< 50.0	< 25.0	2.50 J	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200	32.0	< 10.0	< 50.0	< 10.0
	11/05/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	31.1	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50 C3	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	20.8	< 1.00	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	0.244 J	< 1.00	0.201 JJ4	< 1.00	< 5.00	0.138 B J	< 1.00	< 20.0 C3	20.7	< 1.00	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	26.3	< 1.00	< 5.00	< 1.00
11/16/2021	< 5.00	< 2.50	< 1.00	< 1.00	0.585 J	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	23.6	< 1.00	< 5.00	< 1.00	
02/02/2022	< 5.00	< 2.50 J3	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	29.1	< 1.00	< 5.00	< 1.00	
AMW-14-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	2	< 1.0	< 1.0	< 1.0	< 2.5	0.91 J	0.36 J	< 1.0	< 1.0
	07/27/2016	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.59 J	< 1.0	< 1.0	< 1.0
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.51 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.42 J	< 1.0	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.65 J	0.58 J	< 1.0	< 1.0
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.49 J	< 1.0	< 1.0	< 1.0

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl- benzene	Methyl acetate	Methyl-t-butyl ether	Methyl- cyclohexane	Methylene chloride (Dichloro- methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	NE	10	NE	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	
	05/10/2019	<1.0	<1.0*	<1.0	<1.0	<1.0	<1.0	<1.0*	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	
	09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	0.54 J	<1.0	0.36 J	
	12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	
	02/12/2020	<1.0	<1.0	<1.0	< 1.0 *	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	
	06/10/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	0.317 J	<1.00	<5.00	<1.00
	08/20/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.303 J	<1.00	<5.00	<1.00
	11/05/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.434 J	<1.00	<5.00	<1.00
	03/19/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.270 J	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	<1.00	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.272 J	<1.00	<5.00	<1.00
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.267 J	<1.00	<5.00	<1.00
	02/02/2022	<5.00	<2.50 J3	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.263 J	<1.00	<5.00	<1.00
AMW-15-D1	06/23/2016	0.51 J	< 1.0	20	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 2.5	29	< 1.0	9.9	< 1.0
	07/27/2016	< 5.0	< 5.0	220	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	51	< 5.0	140	< 5.0
	10/26/2016	< 10	< 10	81	< 10	< 10	< 10	< 10	< 10	< 10	< 25	110	3.3 J	8.9 J	< 10
	10/26/2016	< 4.0	< 4.0	38	< 4.0	2.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 10	180	0.87 J	4.1	< 4.0
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	170	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	5.1	< 4.0	< 4.0	< 4.0	< 4.0	4.1	< 4.0	< 10	200	< 4.0	2.2 J	< 4.0
	10/11/2017	< 2.0	< 2.0	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	4.3	< 2.0	< 5.0	300 E	< 2.0	< 2.0	< 2.0
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	2.8 J	< 5.0	< 5.0	5	< 5.0	< 5.0	170	1.2 J	< 25	< 5.0
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	2.6	< 1.0	< 5.0	120	0.50 J	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	0.36 J	< 1.0	0.66 J	< 1.0	< 1.0	2.3	< 1.0	< 5.0	100	0.51 J	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	0.63 J	< 1.0	0.77 J	< 1.0	< 1.0	2.8	< 1.0	< 5.0	120	< 1.0	0.41 J	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	0.33 J	< 1.0 *	< 1.0	0.99 J	< 1.0	< 5.0	37	< 1.0	< 1.0	< 1.0
	06/10/2020	<25.0	<12.5	<5.00	<5.00	<5.00	<5.00	<25.0	4.05 J	0.535 J	<100	171	<5.00	<25.0	<5.00
	08/19/2020	<25.0	<12.5	<5.00	<5.00	<5.00	<5.00	<25.0	2.57 J	<5.00	<100	94.3	<5.00	<25.0	<5.00
	11/04/2020	<5.00	<2.50	0.362 J	<1.00	<1.00	<1.00	<5.00	1.80	0.216 J	<20.0	76.7	<1.00	<5.00	<1.00
	03/19/2021	<25.0	<12.5 C3	<5.00	<5.00	<5.00	<5.00	<25.0	4.74 J	<5.00	<100	127	<5.00	<25.0	<5.00
	06/02/2021	<5.00	<2.50 J3	<1.00 J3	<1.00 J3	0.674 J J3	<1.00 J3 J4	<5.00 J3	1.55	0.160 J	<20.0	40.2	<1.00	<5.00	<1.00
11/16/2021	<5.00	<2.50	0.229 J	<1.00	1.55	<1.00	<5.00	5.19	0.709 J	<20.0	149	<1.00	<5.00	<1.00	
02/01/2022	<5.00	<2.50	0.168 J	<1.00	1.10	<1.00	<5.00	5.05	0.614 J	<20.0	116	1.02	<5.00	<1.00	
AMW-15-D2	06/23/2016	< 1.0	< 1.0	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	68	< 1.0	< 1.0	< 1.0
	06/23/2016	< 1.0	< 1.0	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	66	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	43	< 1.0	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	42	< 1.0	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	110 E	< 1.0	< 1.0	< 1.0
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	120	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	5.1	< 4.0	< 10	350	< 4.0	< 4.0	< 4.0
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	160	< 4.0	< 4.0	< 4.0
	10/17/2018	< 1.0	< 1.0	0.26 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	120	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	61	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	100	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	96	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	91	< 1.0	< 1.0	< 1.0
	06/09/2020	<5.00	<2.50	0.310 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	126	<1.00	<5.00	<1.00
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	11.0	<1.00	<5.00	<1.00
	11/04/2020	<5.00	<2.50	0.188 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	57.1	<1.00	<5.00	<1.00
	03/19/2021	<5.00	<2.50	0.157 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	74.6	<1.00	<5.00	<1.00
06/02/2021	<5.00	<2.50 C3	0.242 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	57.3	<1.00	<5.00	<1.00	
08/12/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	3.23	<1.00	<5.00	<1.00	
11/16/2021	<5.00	<2.50	0.161 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	62.0	<1.00	<5.00	<1.00	
02/01/2022	<5.00	<2.50	0.194 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	32.6	<1.00	<5.00	<1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl- benzene	Methyl acetate	Methyl-t-butyl ether	Methyl- cyclohexane	Methylene chloride (Dichloro- methane)	Styrene
		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
NYSDEC TOGS 1.1.1		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	2.4	< 1.0	< 1.0	< 1.0
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	2.6	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	23	< 1.0	< 1.0	< 1.0
	08/27/2017	< 4.0	< 4.0	19	< 4.0	< 4.0	< 4.0	< 4.0	3.4 J	< 4.0	< 10	64	< 4.0	2.4 J	< 4.0
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	3.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	22	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	0.44 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	10	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	16	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	14	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	7.7	< 1.0	0.32 J	< 1.0
	02/11/2020	< 1.0	< 1.0	0.99 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	51	< 5.0	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00 J4	< 1.00 J4	< 20.0	10.1	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	1.73	< 1.00	< 1.00	< 1.00	< 5.00	0.161 J	< 1.00	< 20.0	72.8	< 1.00	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	0.951 J	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	80.6	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50	13.0	< 1.00	0.672 J	< 1.00	< 5.00	1.97	0.672 J	< 20.0	63.6	< 1.00	< 5.00	0.147 J
	06/01/2021	< 5.00	< 2.50 C3	3.81	< 1.00	0.193 J J4	< 1.00	< 5.00	0.562 B J	0.155 J	< 20.0 C3	69.7	< 1.00	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50	14.3	< 1.00	0.639 J	< 1.00	< 5.00	2.22 B	0.564 J	< 20.0	68.5	< 1.00	< 5.00	< 1.00
	11/16/2021	< 5.00	< 2.50	12.1	< 1.00	0.861 J	< 1.00	< 5.00	1.57	0.435 J	< 20.0	61.7	< 1.00	< 5.00	< 1.00
	02/01/2022	< 5.00	< 2.50	8.74	< 1.00	0.705 J	< 1.00	< 5.00	1.02	0.332 J	< 20.0	68.8	0.905 J	< 5.00	< 1.00
AMW-15-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	1.1	< 1.0	< 1.0	< 1.0
	07/27/2016	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	1.2	< 1.0	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.94 J	< 1.0	< 1.0	< 1.0
	07/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.44 J	< 1.0	< 1.0	< 1.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	1.3	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.1	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.1	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00 J4	< 1.00 J4	< 20.0	0.856 J	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.684 J	< 1.00	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.581 J	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.437 J	< 1.00	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0 C3	0.376 J	< 1.00	< 5.00	< 1.00
08/12/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	< 1.00	< 1.00	< 5.00	< 1.00	
11/16/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.562 J	< 1.00	< 5.00	< 1.00	
02/01/2022	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.380 J	< 1.00	< 5.00	< 1.00	
AMW-3	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	57	< 5.0	< 5.0	29	65	< 13	< 5.0	27	15	< 5.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.40 J	< 1.0	< 1.0	< 1.0
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	1.4 J	1.5 J	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	18	< 1.0	< 1.0	< 1.0	2.8	< 2.5	0.23 J	9.4	< 1.0	< 1.0
	07/11/2018	< 2.0	< 2.0	< 2.0	< 2.0	16	< 2.0	< 2.0	< 2.0	7.1	< 5.0	< 2.0	29	1.1 J	< 2.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	29	< 1.0	< 1.0	0.19 J	4.9	< 10	< 1.0	50	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	19	< 1.0	< 1.0	0.39 J	4.2	< 5.0	< 1.0	31	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	4.4	< 5.0	< 1.0	29	0.53 J	< 1.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	0.49 J	1.9	< 5.0	< 1.0	7.7	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	17	< 1.0	< 1.0	0.49 J	3.9	< 5.0	< 1.0	24	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	13.5	< 1.00	< 5.00	0.805 J	4	< 20.0	< 1.00	14.9	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	14.6	< 1.00	< 5.00	0.331 J	3.11	< 20.0	< 1.00	25.1	< 5.00	< 1.00
11/06/2020	< 5.00	< 2.50	< 1.00	< 1.00	11.6	< 1.00	< 5.00	< 1.00	3.27	< 20.0	< 1.00	18.9	< 5.00	< 1.00	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	NE	10	NE	5	5		
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<5.00	<2.50	<1.00	<1.00	2.77	<1.00	<5.00	<1.00	0.968 J	<20.0	<1.00	7.03	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	11.9 C5 J4	<1.00	<5.00	0.892 B J	2.37	<20.0 C3	<1.00	12.6	<5.00	<1.00	
	08/12/2021	<5.00	<2.50	<1.00	<1.00	4.00	<1.00	<5.00	<1.00	1.31	<20.0	<1.00	6.97	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	4.88	<1.00	<5.00	<1.00	1.62	<20.0	<1.00	<1.00	<5.00	<1.00	
ASB-2	06/06/2016	14	< 1.0	5.6	< 1.0	< 1.0	0.35 J	< 1.0	< 1.0	< 1.0	< 2.5	55	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	0.92 J	< 1.0	2.8	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 2.5	8.5	< 1.0	0.60 J	< 1.0	
ASB-4	06/07/2016	< 5.0	< 5.0	1600 E	< 5.0	5	< 5.0	< 5.0	6.7	< 5.0	< 13	13	4.5 J	330	< 5.0	
ASB-5	06/02/2016	19	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	4.6	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	21	< 2.0	67	< 2.0	< 2.0	0.65 J	< 2.0	< 2.0	< 2.0	< 5.0	5.5	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 10	< 10	14	< 10	20	< 10	< 10	< 10	14	< 25	65	4.4 J	< 10	< 10	
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50	11 J	5.1 J	< 20	< 20	
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	8.3 J	< 5.0	< 5.0	1.2 J	6.8	< 50	28	6.2 J	< 25	< 5.0	
	09/14/2019	< 1.0	< 1.0	0.38 J	< 1.0	6.7	< 1.0	< 1.0	1.4	7.4	< 5.0	40	5.6	0.68 J	< 1.0	
	12/05/2019	< 1.0	< 1.0	0.28 J	< 1.0	7.2	< 1.0	< 1.0	1.6	4.8	< 5.0	14	3.3	0.62 J	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	0.66 J	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0	< 1.0	0.56 J	< 1.0	< 1.0	
	06/09/2020	<25.0	<12.5	<5.00	<5.00	2.51 J	<5.00	<25.0	1.27 J	4.03 J	<100	3.42 J	<5.00	<25.0	<5.00	
	03/19/2021	<5.00	<2.50	0.268 J	<1.00	4.84	<1.00	<5.00	0.672 J	3.93	1.31 J	0.765 J	5.86	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	1.44 C5 J4	<1.00	<5.00	0.274 B J	1.11	<20.0 C3	1.06	1.01	<5.00	<1.00	
	08/12/2021	<5.00	<2.50 J4	<1.00	<1.00	3.32	<1.00	<5.00	0.916 J	3.61	<20.0	8.58	3.73	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	0.357 J	<1.00	6.05	<1.00	<5.00	1.35	5.95	<20.0	26.5	5.60	<5.00	<1.00	
	02/02/2022	<5.00	<2.50	<1.00	<1.00	2.95	<1.00	<5.00	0.658 J	3.09	<20.0	0.870 J	2.86	<5.00	<1.00	
	MW-23-D1R	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	0.40 J	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	140	< 2.0	< 2.0	< 2.0
		10/26/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	180	< 5.0	< 5.0	< 5.0
		01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	210	< 5.0	< 5.0	< 5.0
		06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	30	< 1.0	< 1.0	< 1.0
07/05/2017		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	140	< 4.0	< 4.0	< 4.0	
08/27/2017		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	130	< 4.0	< 4.0	< 4.0	
10/12/2017		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	150	< 4.0	< 4.0	< 4.0	
07/12/2018		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	91	< 4.0	< 4.0	< 4.0	
10/17/2018		< 1.0	< 1.0	1.7	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	0.56 J	< 10	94	< 5.0	< 5.0	< 1.0	
09/13/2019		< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0	92	< 1.0	0.53 J	< 1.0	
12/05/2019		< 1.0	< 1.0	0.72 J	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	0.44 J	< 5.0	83	< 1.0	< 1.0	< 1.0	
02/11/2020		< 1.0	< 1.0	0.35 J	< 1.0 *	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 5.0	35	< 1.0	< 1.0	< 1.0	
06/10/2020		<5.00	<2.50	0.382 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.439 J	<20.0	106	<1.00	<5.00	<1.00	
08/19/2020		<5.00	<2.50	0.517 J	<1.00	0.267 J	<1.00	<5.00	<1.00	0.414 J	<20.0	85.5	<1.00	<5.00	<1.00	
11/05/2020		<5.00	<2.50	0.267 J	<1.00	0.259 J	<1.00	<5.00	<1.00	0.314 J	<20.0	98.5	<1.00	<5.00	<1.00	
03/19/2021		<5.00	<2.50	0.196 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.163 J	<20.0	38.7	<1.00	<5.00	<1.00	
06/02/2021	<5.00	<2.50 C3	0.245 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	0.141 J	<20.0 C3	39.0	<1.00	<5.00	<1.00		
08/12/2021	<5.00	<2.50	0.388 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.312 J	<20.0	106	<1.00	<5.00	<1.00		
11/16/2021	<5.00	<2.50	0.529 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.368 J	<20.0	95.3	<1.00	<5.00	<1.00		
02/02/2022	<5.00	<2.50	0.388 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.179 J	<20.0	48.2	<1.00	<5.00	<1.00		
MW-23-D2R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	130	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	26	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	8	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	72	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	150 E	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	8.8	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	8.8	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	63	< 1.0	0.47 J	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	14	< 1.0	< 1.0	< 1.0	
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	42.2	<1.00	<5.00	<1.00	
	11/05/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	71.1	<1.00	<5.00	<1.00	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	NE	10	NE	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-23-D2R (cont.)	03/18/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	57.0	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	32.8	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	19.6	<1.00	<5.00	<1.00
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	18.2	<1.00	<5.00	<1.00
MW-24-D1R	02/02/2022	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	40.3	<1.00	<5.00	<1.00
	01/13/2016	< 5.0	< 5.0	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	220	< 5.0	< 5.0	< 5.0
	06/21/2016	< 4.0	< 4.0	4.9	< 4.0	1.9 J	< 4.0	< 4.0	3.1 J	< 4.0	< 10	160	1.3 J	< 4.0	< 4.0
	10/26/2016	< 1.0	< 1.0	4	< 1.0	1.6	< 1.0	< 1.0	2.3	< 1.0	< 2.5	140 E	0.64 J	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	6.1	< 1.0	1.4	< 1.0	< 1.0	2.2	< 1.0	< 2.5	120 E	0.66 J	< 1.0	< 1.0
	10/26/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	81	< 4.0	< 4.0	< 4.0
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	7.1 J	< 8.0	< 20	290	< 8.0	< 8.0	< 8.0
	10/16/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	6.1	< 5.0	< 50	270	< 25	< 25	< 5.0
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 5.0	65	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	1.1	< 1.0 [<1.0]	< 1.0 [<1.0]	7.9 [7.2]	0.97 J [0.86 J]	<5.0 [<5.0]	210 [200]	0.63 J [0.57]	< 1.0 [<1.0]	< 1.0 [<1.0]
	12/05/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [0.99 J]	< 1.0 [<1.0]	< 1.0 [<1.0]	2.4 [7.2]	1.0	<5.0 [<5.0]	180 [210]	[0.56 J]	< 1.0 [<1.0]	< 1.0 [<1.0]
	02/11/2020	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 * [<1.0]	0.65 J [1.1]	< 1.0 * [<1.0]	< 1.0 [<1.0]	5.7 [8.9]	0.61 J [1.0]	<5.0 [<5.0]	210 [220]	< 1.0 [0.57 J]	< 1.0 [<1.0]	< 1.0 [<1.0]
	06/09/2020	<25.0 [<25.0]	<12.5 [<12.5]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	8.28 [8.90]	0.954 J [1.08 J]	<100 [<100]	195 [255]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]
	08/19/2020	<25.0 [<25.0]	<12.5 [<12.5]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	6.80 [6.57]	0.712 J [0.681 J]	<100 [<100]	220 [206]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]
	11/05/2020	<25.0 [<25.0]	<12.5 [<12.5]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	7.18 [5.76]	0.771 J [0.560 J]	<100 [<100]	207 [180]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]
	03/19/2021	<5.00 [<25.0]	<2.50 [<12.5 C3]	0.131 J [<5.00]	<1.00 [<5.00]	0.766 J [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	8.35 [9.32]	1.04 [0.940 J]	<20.0 [<100]	201 [213]	<1.00 [<5.00]	<5.00 [<25.0]	<1.00 [<5.00]
	06/01/2021	<5.00 [<25.0]	<2.50 C3 [<12.5 C3]	0.133 J [<5.00]	<1.00 [<5.00]	8.14 J J4 [<5.0]	<1.00 [<5.00]	<5.00 [<25.0]	7.61 [6.22]	0.925 J [0.888 J]	<20.0 C3 [<100]	195 [174]	<1.00 [<5.00]	<5.00 [<25.0]	<1.00 [<5.00]
	11/16/2021	<5.00 [<5.00]	<2.50 [<2.50]	<1.00 [<1.00]	<1.00 [<1.00]	4.881 J J4 [0.353 J]	<1.00 [<1.00]	<5.00 [<5.00]	5.98 [6.64]	0.729 J [0.703 J]	<20.0 [<20.0]	199 [185]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]
02/02/2022	<5.00 [<5.00]	<2.50 [<2.50]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	4.91 [5.75]	0.534 J [0.604 J]	<20.0 [<20.0]	170 [182]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	
MW-24-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	260	< 5.0	< 5.0	< 5.0
	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	250	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	0.84 J	< 1.0	< 2.5	140 E	< 1.0	< 1.0	< 1.0
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	120	< 4.0	< 4.0	< 4.0
	10/25/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	270	< 5.0	84 F1	< 5.0
	07/05/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 20	220	< 8.0	< 8.0	< 8.0
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 20	87	< 8.0	< 8.0	< 8.0
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	60	< 2.0	< 2.0	< 2.0
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	2.5	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	0.52 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	2	< 5.0	< 5.0	< 1.0
	05/09/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	13	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 U	47	< 1.0	< 1.0	< 1.0
	06/09/2020	<5.00	<2.50	0.467 J	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	136	<1.00	<5.00	<1.00
	08/18/2020	<5.00	<2.50	0.364 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.141 J	<20.0	76.4	<1.00	<5.00	<1.00
	11/05/2020	<5.00	<2.50	0.809 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	296	<1.00	<5.00	<1.00
	03/19/2021	0.197 J	<2.50	0.652 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	448	<1.00	<5.00	<1.00
06/01/2021	0.122 J	<2.50 C3	0.514 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	358	<1.00	<5.00	<1.00	
11/16/2021	<5.00	<2.50	0.555 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.209 J	<20.0	224	<1.00	<5.00	<1.00	
02/02/2022	<5.00	<2.50	0.358 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	341	<1.00	<5.00	<1.00	
MW-24-VDR	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	4.2	< 4.0	< 4.0	< 4.0
	10/17/2018	< 1.0	< 1.0	0.28 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	2.9	< 5.0	< 5.0	< 1.0
	05/09/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	1.6	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	0.75 J	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1	< 1.0	< 1.0	< 1.0
	06/09/2020	<5.00	<2.50	0.206 J	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	0.998 J	<1.00	<5.00	<1.00

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-24-VDR (cont.)	08/18/2020	<5.00	<2.50	0.140 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	1.16	<1.00	<5.00	<1.00
	11/05/2020	<5.00	<2.50	0.218 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.944 J	<1.00	<5.00	<1.00
	03/19/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	1.01	<1.00	<5.00	<1.00
	06/01/2021	<5.00	<2.50 C3	0.141 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	0.782 J	<1.00	<5.00	<1.00
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.249 J	<1.00	<5.00	<1.00
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	380	< 5.0	< 5.0	< 5.0
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	340	< 4.0	< 4.0	< 4.0
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	310	< 10	< 10	< 10
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	3.0 J	< 4.0	< 10	390	< 4.0	3.6 J	< 4.0
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	290	< 10	< 10	< 10
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	240	< 10	< 10	< 10
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 5.0	220 E	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	0.42 J	< 1.0	< 5.0	< 1.0	< 1.0	0.95 J	0.43 J	< 10	110	< 5.0	< 5.0	< 1.0
	09/13/2019	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	1.8	0.73 J	< 5.0	86	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.56 J	< 5.0	77	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	1.2	< 1.0 *	< 1.0	< 1.0 *	< 1.0	1.3	0.67 J	< 5.0	80	< 1.0	< 1.0	< 1.0
	06/10/2020	<5.00	<2.50	3.28	<1.00	<1.00	<1.00	<5.00	2.47	1.06	<20.0	115	<1.00	<5.00	<1.00
	08/19/2020	<5.00	<2.50	1.45	<1.00	<1.00	<1.00	<5.00	1.38	0.555 J	<20.0	97.4	<1.00	<5.00	<1.00
	11/06/2020	<5.00	<2.50	0.903 J	<1.00	0.189 J	<1.00	<5.00	1.05	0.459 J	<20.0	84.1	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	0.486 J	<1.00	0.191 J J4	<1.00	<5.00	1.99	0.628 J	<20.0 C3	105	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50 J4	0.236 J	<1.00	0.276 J	<1.00	<5.00	0.973 J	0.250 J	<20.0	67.5	<1.00	<5.00	<1.00
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	0.947 J	0.509 J	<20.0	75.6	<1.00	<5.00	<1.00
	02/02/2022	<5.00	<2.50 J3	<1.00	<1.00	<1.00	<1.00	<5.00	0.657 J	0.281 J	<20.0	69.0	<1.00	<5.00	<1.00
	MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	< 5.0	< 5.0	< 5.0
06/22/2016		< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	59	< 1.0	< 1.0	< 1.0
10/25/2016		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	85	< 2.0	15	< 2.0
10/25/2016		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	43	< 2.0	81	< 2.0
07/05/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
08/27/2017		< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 20	< 8.0	< 8.0	< 8.0	< 8.0
10/11/2017		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	14	< 1.0	< 1.0	< 1.0
10/17/2018		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.39 J	< 1.0	< 10	76	< 5.0	< 5.0	< 1.0
05/09/2019		< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.44 J	< 1.0	< 5.0	84	< 1.0	< 1.0	< 1.0
09/13/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	60	< 1.0	0.44 J	< 1.0
12/06/2019		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	29	< 1.0	< 1.0	< 1.0
02/11/2020		< 1.0	< 1.0	0.37 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	52	< 1.0	< 1.0	< 1.0
06/10/2020		<5.00	<2.50	0.254 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	105	<1.00	<5.00	<1.00
08/19/2020		<5.00	<2.50	0.398 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	64.4	<1.00	<5.00	<1.00
11/16/2021		<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.96 J	< 1.0	< 1.0	< 1.0
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	10	< 1.0	< 1.0	< 1.0
	07/05/2017	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	84	< 2.0	< 2.0	< 2.0
	08/27/2017	< 2.0	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	100	< 2.0	0.94 J	< 2.0
	07/13/2018	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	62	< 2.0	< 2.0	< 2.0
	10/18/2018	< 1.0	< 1.0	1	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	38	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	18	< 1.0	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 5.0	33	< 1.0	< 1.0	< 1.0

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-27-D1R (cont.)	12/05/2019	< 1.0	< 1.0	0.95 J	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 5.0	39	< 1.0	< 1.0	< 1.0
	08/19/2020	<25.0	<12.5	0.855 J	<5.00	<5.00	<5.00	<5.00	<5.00	<100	<100	26.0	<5.00	<25.0	<5.00
	11/06/2020	<25.0	<12.5	1.13 J	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<100	22.2	<5.00	<25.0	<5.00
	03/20/2021	<5.00	<2.50 C3	0.751 J	<1.00	<1.00	<1.00	<5.00	0.263 J	<1.00	<20.0	21.1	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	0.790 J	<1.00	<1.00 J4	<1.00	<5.00	0.387 B J	<1.00	<20.0 C3	27.6	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50	0.635 J	<1.00	<1.00	<1.00	<5.00	0.322 B J	<1.00	<20.0	21.3	<1.00	<5.00	<1.00
	11/17/2021	<5.00	<2.50	1.10	<1.00	0.673 J	<1.00	<5.00	0.722 J	<1.00	<20.0	37.6	<1.00	<5.00	<1.00
	02/02/2022	<5.00	<2.50 J3	0.712 J	<1.00	<1.00	<1.00	<5.00	0.165 J	<1.00	<20.0	18.8	<1.00	<5.00	<1.00
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	22 J	< 4.0	< 4.0	92	38	< 10	8.1	26	5.7	< 4.0
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	3.4 J	< 4.0	< 4.0	< 4.0
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	7.9	< 1.0	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	9.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	4.9	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	4.7	< 1.0	< 1.0	< 1.0
	06/10/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	0.843 J	<1.00	<5.00	<1.00
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	1.21	<1.00	<5.00	<1.00
	11/06/2020	<5.00	<2.50	&											

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzen e	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	<1.00	<1.00	<5.00	<1.00
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00
	11/06/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.108 J	<1.00	<5.00	<1.00
	03/20/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	<1.00	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00
MW-28-D2R	02/02/2022	<5.00	<2.50 J3	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.131 J	<1.00	<5.00	<1.00
MW-29-D1	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0	< 5.0	< 5.0	24	< 13	34	5.5	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	8	< 1.0	< 1.0	< 1.0	5.4	< 2.5	23	3.8	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	21	< 1.0	< 1.0	< 1.0	16	< 2.5	44	10	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	6.4	< 2.5	23	2.5	< 1.0	< 1.0
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	7.6	< 2.0	< 2.0	< 2.0	7.7	< 5.0	71	1.8 J	< 2.0	< 2.0
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	12	< 2.0	< 2.0	< 2.0	9.3	< 5.0	28	5.8	< 2.0	< 2.0
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	5.4	< 4.0	< 4.0	< 4.0	5.8	< 10	20	1.5 J	< 4.0	< 4.0
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	24	< 4.0	< 4.0	< 4.0	19	< 10	39	11	< 4.0	< 4.0
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	20	< 1.0	< 1.0	0.31 J	16	< 10	33	11	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	24	< 1.0	< 1.0*	0.34 J	18	< 5.0	51	8.6	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	2.2	< 5.0	18	1.2	0.48 J	< 1.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	12	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 5.0	3.1	< 1.0	< 1.0	< 1.0
	06/10/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	0.107 J	<20.0	22.7	<1.00	<5.00	<1.00
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	29.5	<1.00	<5.00	<1.00
	11/06/2020	<5.00	<2.50	<1.00	<1.00	0.536 J	<1.00	<5.00	<1.00	<1.00	<20.0	28.7	<1.00	<5.00	<1.00
	03/20/2021	<5.00	<2.50	<1.00	<1.00	0.452 J	<1.00	<5.00	<1.00	<1.00	<20.0	26.4	<1.00	<5.00	<1.00
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	1.76	<1.00	<5.00	<1.00
	08/12/2021	<5.00	<2.50 J4	<1.00	<1.00	0.556 J	<1.00	<5.00	<1.00	0.105 J	<20.0	20.9	<1.00	<5.00	<1.00
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	66	< 1.0	< 1.0	< 1.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	51	< 1.0	< 1.0	< 1.0
MW-29-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.42 J	< 1.0	< 1.0	< 1.0
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	100 E	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	53	< 1.0	< 1.0	< 1.0
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	7.3	< 5.0	< 5.0	< 5.0
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	8.1	< 2.0	< 2.0	< 2.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	3	< 1.0	< 1.0	< 1.0
MW-30-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 10	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.47 J	< 1.0	< 1.0	< 1.0
MW-31-D1R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	3.3	< 1.0	< 1.0	< 1.0
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.32 J	< 1.0	< 1.0	< 1.0

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
AMW-13-D1	06/24/2016	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 2.0	NA	NA	NA	NA
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 2.0	NA	NA	NA	NA
AMW-13-D2	06/23/2016	0.57 J	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
AMW-13-VD	06/23/2016	1.5	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/27/2016	1	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 2.0	NA	NA	NA	NA
	07/26/2016	< 1.0	7.1	7.8	< 1.0	< 1.0	< 1.0	1600 E	11	NA	NA	NA	NA
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	78	3.2 J	130	< 150	< 140	1,100
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	7.6	< 8.0	79	< 330	200 J	550
	10/11/2017	< 2.0	1.0 J	13	< 2.0	< 2.0	< 2.0	3.2	20	23	< 170	190	580
	07/12/2018	< 8.0	< 8.0	8.6	< 8.0	< 8.0	< 8.0	< 8.0	16	42	< 660	260 J	2,000
	10/17/2018	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	32	1.6 J	120 B	< 330	< 310	1,600
	05/10/2019	< 1.0	0.84 J	11	< 1.0	< 1.0	< 1.0*	2.1	16	73	150 J	440	1,900
	09/13/2019	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 1.0	9	< 2.0	150	<83	<77	3,600
	12/05/2019	< 1.0	< 1.0	9.0	< 1.0	0.44 J	< 1.0	22	1.8 J	160	13	210	3,800
	02/12/2020	< 1.0	0.58 J	12.0	< 1.0	0.46 J	< 1.0	40	5.7	100 B	160	690	3,000 B
	06/10/2020	<1.00	<1.00	3.79	<1.00	0.218 J	<5.00	5.59	0.780 J	43.1 T8	<13.0	86.3	3,200
	08/19/2020	<1.00	0.465 J	10.8	<1.00	<1.00	<5.00	4.74	4.86	42,500 T8	378	176	3,340
	11/04/2020	<1.00	0.552 J	12.1	<1.00	0.290 J	<5.00	6.16	3.95	28.2 T8	816	225	5,990
	03/19/2021	<1.00	0.439 J	14.3	<1.00	0.342 J	<5.00	25.3	3.77	61.8 P1 T8	110	661	5,200
	06/02/2021	<1.00	0.413 J	16.2	<1.00	0.335 J	<5.00	7.18	3.61	36.4 T8	831	171	6,810
	08/12/2021	<1.00	0.455 J	22.2	<1.00	<1.00	<5.00	<1.00 J4	3.90	56.1 B T8	437	445	4,350
	11/16/2021	<1.00	0.313 J	14.6	<1.00	0.369 J	<5.00	10.4	2.95 J	60.8 BT8	14.6	102	777
	02/02/2022	<1.00	0.320 J	11.9	<1.00	<1.00	<5.00	<1.00	1.38 J	40.8 T8	93.6	16.8	1,020
AMW-14-D2	06/23/2016	< 1.0	0.81 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/26/2016	< 1.0	0.64 J	0.90 J	< 1.0	< 1.0	< 1.0	3.6	< 2.0	NA	NA	NA	NA
	07/27/2016	0.38 J	7.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	18	< 83	< 77	210
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 170	< 150	1,200
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	120	< 330	< 310	970
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	150 B	< 330	< 310	2,200
	05/10/2019	< 1.0	< 1.0	0.85 J	< 1.0	< 1.0	< 1.0	0.32 J	< 2.0	150	< 330	< 310	1,900
	09/13/2019	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	0.65 J	< 2.0	160	< 83	< 77	2,600
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 2.0	170	0.74 J	< 3.0	2,200
	02/12/2020	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120 B	1.1 J	< 3.0	1,800 B
	06/10/2020	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	4.00 J	69.7 T8	<13.0	<13.0	2,070
	08/19/2020	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<30.0	55,800 T8	<13.0	<13.0	1670
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	26.3 T8	<13.0	<13.0	1,970
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	44.6 T8	<13.0	<13.0	1,820
	06/02/2021	<1.00	<1.00	0.977 J	<1.00	<1.00	<5.00	6.49	<3.00	47.6 T8	<13.0	<13.0	2,330
	08/12/2021	<1.00	<1.00	0.198 J	<1.00	<1.00	<5.00	<1.00	<3.00	91.0 T8	<13.0	<13.0	1,670
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	89.4 T8	<13.0	<13.0	255
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	103 T8	<13.0	<13.0	326
AMW-14-VD	06/23/2016	0.59 J	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	NA	<13.0	<13.0	1,820
	07/27/2016	0.41 J	8.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	<13.0	<13.0	1,820
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	<13.0	<13.0	1,820
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	<13.0	<13.0	1,820
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	82	<13.0	<13.0	1,820
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	< 7.5	< 7.0	27

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110 B	< 7.5	< 7.0	24
	05/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	130	<7.5 H	<7.0 H	12 H
	09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	140	<7.5	<7.0	20
	12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	130	<4.0	<3.0	33
	02/12/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	100 B	<4.0	<3.0	28 B
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	88.9 T8	<13.0	<13.0	467
	08/20/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	82,100 T8	<13.0	<13.0	26.4
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 T8	<13.0	<13.0	48.6
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	82.5 T8	<13.0	<13.0	51.9
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	99.3 T8	<13.0	<13.0	52.7
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	148 T8	<13.0	<13.0	61.1
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	112 T8	<13.0	<13.0	18.4
02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	138 T8	<13.0	<13.0	9.62 J	
AMW-15-D1	06/23/2016	0.43 J	3	< 1.0	< 1.0	5.5	< 1.0	70	< 2.0	NA	NA	NA	NA
	07/27/2016	< 5.0	7.5	< 5.0	< 5.0	73	< 5.0	410	6.5 J	NA	NA	NA	NA
	10/26/2016	< 10	18	< 10	< 10	48	< 10	600 F1	15 J	NA	NA	NA	NA
	10/26/2016	< 4.0	6.6	< 4.0	< 4.0	18	< 4.0	240	5.5 J	NA	NA	NA	NA
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	10	< 8.0	110	< 150	< 140	400
	08/27/2017	< 4.0	17	28	< 4.0	< 4.0	< 4.0	76	17	27	92 J	830	4,000
	10/11/2017	< 2.0	5.9	13	< 2.0	< 2.0	< 2.0	24	12	34	< 330	470	2,400
	10/17/2018	< 5.0	1.5 J	21	< 5.0	< 5.0	< 5.0	< 5.0	19	40	< 660	< 620	5,100
	05/09/2019	< 1.0	< 1.0	7.4	< 1.0	< 1.0	< 1.0*	1.1	6.3	52	< 830	< 770	3,200
	09/13/2019	< 1.0	< 1.0	6.7	< 1.0	< 1.0	< 1.0	2	5.1	47	290 J	150 J	4,000
	12/05/2019	< 1.0	0.43 J	7.1	< 1.0	< 1.0	< 1.0	2.2	5.8	39	490	550	6,200
	02/11/2020	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	1.6 J	20 B	89	49	700 B
	06/10/2020	< 5.00	< 5.00	5.47	< 5.00	< 5.00	< 25.0	< 5.00	6.20 J	< 20.0 T8	775	165	6,590
	08/19/2020	< 5.00	< 5.00	4.20 J	< 5.00	< 5.00	< 25.0	< 5.00	2.96 J	< 20000 T8	550	27.5	4,380
	11/04/2020	< 1.00	< 1.00	2.53	< 1.00	< 1.00	< 5.00	< 1.00	1.61 J	< 20 T8	722	< 13.0	5,200
03/19/2021	< 5.00	< 5.00	5.63	< 5.00	< 5.00	< 25.0	< 5.00	5.23 J	23 T8	1,370	90.7	9,900	
06/02/2021	< 1.00	< 1.00	1.46	< 1.00	< 1.00	< 5.00	< 1.00	1.14 J	< 20 T8	298	< 13.0	1,970	
11/16/2021	< 1.00	0.392 J	5.81	< 1.00	0.265 J	< 5.00	< 1.00	2.26 J	25.2 BT8	198	< 13.0	1,380	
02/01/2022	< 1.00	0.305 J	3.11	< 1.00	< 1.00	< 5.00	< 1.00	1.29 J	23.9 T8	183	< 13.0	1,510	
AMW-15-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 2.0	NA	NA	NA	NA
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 2.0	NA	NA	NA	NA
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 2.0	NA	NA	NA	NA
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.7	< 2.0	NA	NA	NA	NA
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	30	< 2.0	NA	NA	NA	NA
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	98	< 150	< 140	430
	08/27/2017	< 4.0	7.8	5.5	< 4.0	< 4.0	< 4.0	300	12	94	< 170	37 J	880
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	25	< 8.0	68	< 170	< 150	280
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110	< 330	< 310	560
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 170	< 150	520
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 2.0	140	< 170	< 150	680
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	1.3 J	3 U	800
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	97 B	1.9 J	< 3.0	690 B
	06/09/2020	< 1.00	< 1.00	0.209 J	< 1.00	< 1.00	< 5.00	< 1.00	0.225 J	39.8 T8	< 13.0	< 13.0	920
	08/19/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	46,600 T8	< 13.0	< 13.0	409
	11/04/2020	< 1.00	< 1.00	0.430 J	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	21.5 T8	6.37 J	< 13.0	809
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	7.82	< 3.00	36.2 T8	< 13.0	< 13.0	19.3
	06/02/2021	< 1.00	< 1.00	0.682 J	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	< 20 T8	< 13.0	< 13.0	1,100
08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	46.8 B T8	< 13.0	< 13.0	< 10.0	
11/16/2021	< 1.00	< 1.00	0.367 J	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	46 T8	< 13.0	< 13.0	156	
02/01/2022	< 1.00	< 1.00	0.189 J	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	70.9 T8	< 13.0	< 13.0	118	

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	140	< 4.0	16	17	5.1	< 330	< 310	2,400
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 5	< 170	< 150	610
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	20	< 2.0	< 2.0	< 4.0	7.6	< 330	< 310	1,500
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 3.0	100	< 170	< 150	2,800
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 2.0	140	< 330	< 310	1,600
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 2.0	130	< 170	< 150	1,400
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 4.0	< 3.0	1,400
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	0.57 J	< 2.0	85 B	3.1 J	< 3.0	1,100 B
	06/09/2020	< 1.00 J4	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	29.8 T8	< 13.0	< 13.0	1,340
	08/19/2020	< 1.00	< 1.00	0.226 J	< 1.00	8.84	< 5.00	< 1.00	0.376 J	52,200 T8	19.0	< 13.0	2,800
	11/04/2020	< 1.00	< 1.00	< 1.00	< 1.00	4.31	< 5.00	< 1.00	0.174 J	23.4 T8	< 13.0	< 13.0	2,010
	03/19/2021	< 1.00	2.41	0.435 J	< 1.00	51.1	< 5.00	7.44	4.59	< 20 T8	76.3	6.25 J	6,270
	06/01/2021	< 1.00	0.448 J	0.213 J	< 1.00	15.3	< 5.00	1.29	0.930 J	< 20 T8	36.7	< 13.0	4,700
	08/12/2021	< 1.00	2.49	0.533 J	< 1.00	56.8	< 5.00	4.44	5.08	< 20 T8	49.4	< 13.0	6,110
	11/16/2021	< 1.00	1.99	0.499 J	< 1.00	45.7	< 5.00	5.59	3.66	< 20 T8	16.5	< 13.0	1,910
	02/01/2022	< 1.00	1.38	0.366 J	< 1.00	29.9	< 5.00	3.72	2.43 J	< 20.0 T8	9.91 J	< 13.0	1,340
AMW-15-VD	06/23/2016	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/27/2016	< 1.0	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	31	< 7.5	< 7.0	24
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3	40	< 7.5	< 7.0	8
	07/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	41	< 7.5	< 7.0	37
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	37	< 7.5	< 7.0	27
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	17	< 7.5 H	< 7.0 H	25 H
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	49	< 7.5	< 7.0	22
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	22	< 4.0	< 3.0	51
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	11 B	< 4.0	< 3.0	38 B
	06/09/2020	< 1.00 J4	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	< 1.00	< 3.00	< 20.0 T8	< 13.0	< 13.0	54.9
	08/19/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	29,500 T8	< 13.0	< 13.0	44.9
	11/04/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	< 20 T8	< 13.0	< 13.0	63.3
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	21.7 T8	< 13.0	< 13.0	64.5
	06/02/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	7,310 J T8	< 13.0	< 13.0	76.2
	08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	53.2 B T8	< 13.0	< 13.0	< 10.0
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	53.3 T8	< 13.0	< 13.0	42.7
	02/01/2022	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 3.00	27.6 T8	< 13.0	< 13.0	17.1
	AMW-3	01/13/2016	< 5.0	6.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20	NA	NA	NA
06/21/2016		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	NA	NA	NA	NA
	07/11/2018	< 2.0	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	82	< 330	< 310	3,500
	10/17/2018	< 1.0	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	94 B	< 330	< 310	5,800
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3 J	94	< 330 UH	< 310 UH	3,100 H
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	110	< 170	< 150	3,600
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	47	1.6 J	< 3.0	6,200
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	52 B	2.4 J	< 3.0	5,500 B
	06/09/2020	< 1.00 J4	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	< 1.00	1.66 J	38.1 T8	< 13.0	< 13.0	9,370
	08/19/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	0.990 J	46.3 T8	< 13.0	< 13.0	3550
	11/06/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	0.241 J	44.3 T8	4.44 J	< 13.0	7,880

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
AMW-7R (cont.)	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	32.1 T8	<13.0	<13.0	7,700
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	2.53 J	36.4 T8	<13.0	<13.0	10,100
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	71.3 T8	<13.0	<13.0	4,930
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	65.1 T8	<13.0	<13.0	2,830
ASB-2	06/06/2016	1.4	0.87 J	<1.0	<1.0	4.4	<1.0	6	<2.0	NA	NA	NA	NA
ASB-3	06/08/2016	1.3	<1.0	<1.0	<1.0	1.2	<1.0	81	<2.0	NA	NA	NA	NA
ASB-4	06/07/2016	6.7	9	13	<5.0	1500 E	<5.0	400	36	NA	NA	NA	NA
ASB-5	06/02/2016	1.2	<1.0	<1.0	<1.0	4.8	<1.0	11	0.89 J	NA	NA	NA	NA
ASB-7	06/02/2016	1.2 J	<2.0	<2.0	<2.0	1.7 J	<2.0	31	<4.0	NA	NA	NA	NA
MW-18R	06/22/2016	<10	<10	<10	<10	<10	<10	<10	<20	NA	NA	NA	NA
	07/11/2018	<20	<20	<20	<20	<20	<20	<20	<40	2.2 J	<660	<620	3,800
	10/17/2018	<5.0	4.1 J	<5.0	<5.0	<5.0	<5.0	<5.0	5.2 J	11 B	<660	<620	9,700
	09/14/2019	<1.0	4.9	<1.0	<1.0	<1.0	<1.0	<1.0	7.1	32	<660	<620	13,000
	12/05/2019	<1.0	4.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.2	3 J	21	0.81 J	16,000
	02/12/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	3.9 J B	<4.0	<3.0	89
	06/09/2020	<5.00 J4	3.31 J	<5.00	<5.00	<5.00 J4	<25.0	<5.00	5.52 J	<20.0 T8	8.80 J	<13.0	5,640
	03/19/2021	<1.00	2.36	<1.00	<1.00	<1.00	<5.00	<1.00	4.41	<20 T8	19	<13.0	8,840
	06/02/2021	<1.00	0.979 J	<1.00	<1.00	<1.00	<5.00	<1.00	1.50 J	<20 T8	<13.0	<13.0	5,700
	08/12/2021	<1.00	3.92	<1.00	<1.00	<1.00	<5.00	<1.00 J4	5.64	42.3 B T8	13.5	<13.0	12,300
	11/16/2021	<1.00	3.83	<1.00	<1.00	<1.00	<5.00	<1.00	7.81	30.8 BT8	<13.0	<13.0	2,660
	02/02/2022	<1.00	1.87	<1.00	<1.00	<1.00	<5.00	<1.00	3.73	--	<13.0	<13.0	1,630
	10/26/2016	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA
	10/26/2016	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA	NA	NA	NA
	01/12/2016	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA	NA	NA	NA
06/20/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	
07/05/2017	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	82	<150	<140	150	
08/27/2017	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	75	<83	<77	1,500	
10/12/2017	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	55	<170	<150	1,300	
07/12/2018	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	64	<330	<310	4,800	
10/17/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	63	<660	<620	3,600	
09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.26 J	<2.0	68	<83	<77	1,400	
12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	660	8.2	<3.0	2,100	
02/11/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	10 B	3.3 J	<3.0	770 B	
06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.190 J	29.6 T8	6.78 J	<13.0	1,560	
08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	41,200 T8	6.95 J	<13.1	1,780	
11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	23.9 T8	7.51 J	<13.0	2,040	
03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	29.3 T8	<13.0	<13.0	303	
06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	22.3 T8	<13.0	<13.0	876	
08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	30.8 B T8	<13.0	<13.0	944	
11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	39.1 BT8	<13.0	<13.0	225	
02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	48.6 T8	<13.0	<13.0	195	
MW-23-D2R	01/12/2016	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA	NA	NA	NA
	06/20/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA
	07/05/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	130	<38	<35	73
	08/27/2017	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	110	<83	<77	360
	10/12/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<2.0	100	<170	<150	200
	07/12/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	32	<170	<150	290
	05/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	32	<170	<150	290
	09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	140	<170	<150	700
	12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	69	2.9 J	<3.0	1,500
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	54,100 T8	<13.0	<13.0	1,190
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	32.6 T8	<13.0	<13.0	1,020

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
MW-23-D2R (cont.)	03/18/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	53.5 T8	<13.0	<13.0	61
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	61.5 T8	<13.0	<13.0	878
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	35.9 B T8	<13.0	<13.0	1,070
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	72 T8	<13.0	<13.0	421
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	92.6 T8	<13.0	<13.0	389
MW-24-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	99	< 10	NA	NA	NA	NA
	06/21/2016	< 4.0	< 4.0	11	< 4.0	< 4.0	< 4.0	35	9.3	NA	NA	NA	NA
	10/26/2016	< 1.0	0.68 J	6.5	< 1.0	< 1.0	< 1.0	33	7.2	NA	NA	NA	NA
	10/26/2016	< 1.0	0.64 J	6.8	< 1.0	< 1.0	< 1.0	15	6.6	NA	NA	NA	NA
	10/26/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	NA	NA	NA	NA
	07/12/2018	< 8.0	23	22	< 8.0	< 8.0	< 8.0	160	29	67	130 J	1,100	5,900
	10/16/2018	< 5.0	17	12	< 5.0	< 5.0	< 5.0	22	25	59	< 660	550 J	6,000
	05/09/2019	< 1.0	1.5	2.0	< 1.0	< 1.0	< 1.0	1.5	3.6	98	< 330	< 310	1,600
	09/13/2019	< 1.0 [<1.0]	7.2 [6.4]	16	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	8.0 [9.2]	33 [30]	36 [51]	750 [730]	100 J [99 J]	7,300 [7,700]
	12/05/2019	< 1.0 [<1.0]	1.4 [2.3]	7.0 [16]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	3.4 [5.4]	11 [29]	30 [60]	320 [880]	88 [280]	2,400 [8,400]
	02/11/2020	< 1.0 [<1.0]	0.9 J [2.5]	9.5 [14]	< 1.0 [<1.0]	< 1.0 [<1.0]	< 1.0 [<1.0]	2.3 [7.9]	24 [37]	57 B [57 B]	520 [520]	110 [270]	4,500 B [5900]
	06/09/2020	<5.00 [<5.00]	1.62 J [<5.00]	12.2 [13.8]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	2.86 J [<5.00]	31.1 [34.4]	47.8 T8 [38.3 T8]	419 [549]	230 [147]	5,930 [6,460]
	08/19/2020	<5.00 [<5.00]	<5.00 [<5.00]	12.9 [13.2]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	26.9 [26.3]	47,000 T8 [46,300 T8]	589 [566]	116 [111]	6,530 [6,280]
	11/05/2020	<5.00 [<5.00]	<5.00 [<5.00]	12.8 [9.50]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 [<25.0]	<5.00 [<5.00]	24.1 [18.6]	57.2 T8 [48.7 T8]	794 [609]	274 [219]	12,600 [9,970]
	03/19/2021	<1.00 [<5.00]	1.42 [<5.00]	12.6 [11.4]	<1.00 [<5.00]	<1.00 [<5.00]	<5.00 [<25.0]	<1.00 [<5.00]	23.8 [22.7]	<20 T8 [38 T8]	647 [752]	209 [219]	10,400 [11,100]
	06/01/2021	<1.00 [<5.00]	0.944 J [<5.00]	12.9 [10.5]	<1.00 [<5.00]	0.214 J [<5.00]	<5.00 [<25.0 C3]	1.06 [2.21 C3 J]	20.2 [18.0]	38.9 T8 [26.2 T8]	480 [451]	145 [139]	7,940 [6,890]
	11/16/2021	<1.00 [<1.00]	0.583 J [0.620 J]	10.9 [9.11]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	<1.00 [<1.00]	12.6 [12.3]	<20 B J T8 [32.3 B T8]	70.5 [78.5]	20.2 [21.8]	1,280 [1,390]
	02/02/2022	<1.00 [<1.00]	0.598 J [0.677 J]	8.30 [8.83]	<1.00 [<1.00]	<1.00 [<1.00]	<5.00 [<5.00]	0.242 J [<1.00]	8.44 [9.73]	58.5 T8 [59.3 T8]	38.9 [56.8]	12.7 J [23.0]	872 [1,030]
MW-24-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	180	< 10	NA	NA	NA	NA
	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	170	< 10	NA	NA	NA	NA
	06/21/2016	< 1.0	< 1.0	0.98 J	< 1.0	< 1.0	< 1.0	38	< 2.0	NA	NA	NA	NA
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0	NA	NA	NA	NA
	10/25/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	280 F1	< 10	NA	NA	NA	NA
	07/05/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	250 F1	< 16	130	< 150	< 140	130
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	72	< 16	110	< 170	< 150	980
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	18	< 4.0	54	< 170	< 150	410
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	15	< 7.5	< 7.0	44
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 3.0	5.7	< 170	< 150	370
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	5.0	< 7.5	< 7.0	< 4.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	15.0	< 7.5	< 7.0	< 4.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	26	1.5 J	0.57 J	270
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	8 B	2.7 J	< 3.0	210 B
	06/09/2020	<1.00 J4	<1.00	0.716 J	<1.00	<1.00 J4	<5.00	0.269 J	<3.00	<20.0 T8	25.3	<13.0	2,180
	08/18/2020	<1.00	<1.00	0.359 J	<1.00	<1.00	<5.00	<1.00	<3.00	<20,000 T8	13.7	<13.0	1,200
	11/05/2020	<1.00	<1.00	1.13	<1.00	0.244 J	<5.00	<1.00	<3.00	<20 J T8	57.4	<13.0	5,720
	03/19/2021	<1.00	<1.00	1.19	<1.00	<1.00	<5.00	<1.00	<3.00	24.7 T8	44.7	<13.0	4,500
06/01/2021	<1.00	<1.00	0.720 J	<1.00	<1.00	<5.00	<1.00	<3.00	22.5 T8	24.8	<13.0	1,920	
11/16/2021	<1.00	<1.00	0.668 J	<1.00	<1.00	<5.00	<1.00	0.180 J	<20 JT8	<13.0	<13.0	1,400	
02/02/2022	<1.00	<1.00	0.498 J	<1.00	<1.00	<5.00	<1.00	<3.00	22.8 T8	6.08 J	<13.0	350	
MW-24-VDR	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	89	2.1 J	2.3 J	160
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 3.0	79	< 7.5	< 7.0	120
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 2.0	92	< 83	< 77	13 J
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 2.0	92	< 7.5	< 7.0	26
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	3.8 J	< 4.0	1.7 J	28
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	85 B	< 4.0	< 3.0	40 B
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	57.7 T8	<13.0	<13.0	77.0

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
MW-24-VDR (cont.)	08/18/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	75,500 T8	<13.0	<13.0	55.8
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	28.5 T8	<13.0	<13.0	68.1
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	81.7 T8	<13.0	<13.0	87.1
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	45.7 T8	<13.0	<13.0	56.0
MW-26-D1	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 JT8	<13.0	<13.0	47.1
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16	< 10	NA	NA	NA	NA
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0	NA	NA	NA	NA
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	18	< 20	NA	NA	NA	NA
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	51	< 8.0	NA	NA	NA	NA
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	28	< 20	120	< 150	< 140	250
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	95	< 170	< 150	1,200
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	10	< 7.5	< 7.0	10
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	13	< 4.0	110	< 330	< 310	2,900
	10/17/2018	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	65 B	< 170	< 150	1,800
	09/13/2019	< 1.0	0.67 J	1.0	< 1.0	< 1.0	< 1.0	19	< 2.0	79	< 170	< 150	4,100
	12/06/2019	< 1.0	0.4 J	0.74 J	< 1.0	< 1.0	< 1.0	12	< 2.0	64	5.3	21	2,400
	02/11/2020	< 1.0	0.46 J	0.92 J	< 1.0	< 1.0	< 1.0	26	< 2.0	45 H B	4.9	21	1,900 B
	06/10/2020	<1.00	0.516 J	2.36	<1.00	<1.00	<5.00	79.3	1.74 J	72.0 T8	15.0	65.8	3,260
	08/19/2020	<1.00	<1.00	1.57	<1.00	<1.00	<5.00	39	1.02 J	34,800 T8	7.93 J	23.2	2,030
	11/06/2020	<1.00	<1.00	1.42	<1.00	<1.00	<5.00	38.8 C5	0.793 J	58.2 T8	12.7 J	39.2	2,820
	06/02/2021	<1.00	0.685 J	3.67	<1.00	<1.00	<5.00	62.4	2.02 J	69.9 T8	31.9	113	3,910
	08/12/2021	<1.00	0.326 J	2.54	<1.00	<1.00	<5.00	38.6 C5 J4	1.11 J	46 B T8	25.3	98.1	3,810
	11/16/2021	<1.00	<1.00	1.65	<1.00	<1.00	<5.00	6.74	1.37 J	53 BT8	7.03 J	8.37 J	872
02/02/2022	<1.00	<1.00	0.670 J	<1.00	<1.00	<5.00	2.66	1.13 J	53.8 T8	<13.0	<13.0	1,430	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 2.0	NA	NA	NA	NA
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 7.5	< 7.0	76
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 16	110	< 83	< 77	92
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	55	< 170	< 150	670
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110 B	< 170	< 150	1,100
	05/09/2019	< 1.0	< 1.0	0.90 J	< 1.0	0.50 J	< 1.0	1.5	< 2.0	130	< 660	< 620	750
	09/13/2019	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	1.0 U	< 1.0	< 2.0	150	< 83	< 77	1,000
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	140	1.1 J	< 3.0	1,300
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	83 B	0.8 J	< 3.0	710 B
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.218 J	57.8 T8	<13.0	<13.0	1,340
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	47.9 T8	<13.0	<13.0	360
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 JT8	<13.0	<13.0	35
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	< 2.0	NA	NA	NA	NA
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	28	< 4.0	26	< 380	< 350	550
	08/27/2017	< 2.0	< 2.0	5	< 2.0	< 2.0	< 2.0	110	< 4.0	100	< 170	< 150	1,100
	07/13/2018	< 2.0	1.6 J	4.1	< 2.0	< 2.0	< 2.0	88	< 4.0	140	< 660	< 620	3,700
	10/18/2018	< 1.0	1	< 1.0	< 1.0	0.26 J	< 1.0	70	< 3.0	150 B	< 170	< 150	3,900
	05/10/2019	< 1.0	0.44 J	0.96 J	< 1.0	< 1.0	< 1.0	17	< 2.0	97	< 83	< 77	1,600
	09/14/2019	< 1.0	1.2	2.3	< 1.0	< 1.0	< 1.0	25	1.2 J	170	<330	<310	1,600

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
MW-27-D1R (cont.)	12/05/2019	< 1.0	1.7	3.6	< 1.0	0.37 J	1.0 U	61	1.6 J	170	5.5	40	2,600
	08/19/2020	<5.00	<5.00	1.52 J	<5.00	<5.00	<25.0	33.6	1.12 J	55,300 T8	<13.0	19.9	1,530
	11/06/2020	<5.00	<5.00	2.01 J	<5.00	<5.00	<25.0	26.0 C5	<15.0	83.4 T8	<13.0	27.8	2,010
	03/20/2021	<1.00	0.450 J	1.82	<1.00	<1.00	<5.00	26.9	0.593 J	56.6 T8	9.14 J	39.4	3,920
	06/02/2021	<1.00	0.774 J	2.80	<1.00	0.349 J	<5.00	45.5	1.05 J	88.9 T8	<13.0	46.0	2,310
	08/12/2021	<1.00	0.544 J	1.87	<1.00	0.230 J	<5.00	23.9	0.820 J	103 T8	6.78 J	42.1	2,260
	11/17/2021	<1.00	1.20	3.89	<1.00	0.355 J	<5.00	43.7	1.67 J	94.5 B T8	<13.0	10.7 J	361
	02/02/2022	<1.00	0.297 J	1.80	<1.00	0.208 J	<5.00	27.1	0.515 J	109 T8	<13.0	6.14 J	376
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	06/21/2016	< 4.0	17	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	68	NA	NA	NA	NA
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 75	< 70	53
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 83	< 77	180
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	81	< 170	< 150	350
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	140	< 330	< 310	1,500
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	130 B	< 170	< 150	1,200
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	66	< 170	< 150	310
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	150	< 170	< 150	1,200
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	150	< 4.0	< 3.0	1,600
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	110 B	< 4.0	< 3.0	910 B
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	0.181 J	98.7 T8	<13.0	<13.0	1,100
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	75,400 T8	<13.0	<13.0	876
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	60.9 T8	<13.0	<13.0	408
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	93.9 T8	<13.0	<13.0	907
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	56.2 T8	<13.0	<13.0	794
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	127 T8	<13.0	<13.0	180
11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	141 T8	<13.0	<13.0	88.7	
02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	134 T8	<13.0	<13.0	104	
MW-28-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/28/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	51	< 150	< 140	290
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	15	< 170	< 150	1,000
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	3.8 J	< 170	< 150	520
	10/17/2018	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6 J	8.9 B	< 330	< 310	1,500
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	120	< 660	< 620	1,300
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	2.2	160	<170	<150	1,600
	12/05/2019	< 1.0	0.53 J	0.25 J	< 1.0	< 1.0	< 1.0	0.68 J	1.9 J	75	33	15	2,500
	02/11/2020	< 1.0	0.62 J	0.35 J	< 1.0	< 1.0	< 1.0	1.7	3	73 B	25	11	1,800 B
	06/09/2020	<1.00 J4	0.578 J	0.205 J	<1.00	<1.00 J4	<5.00	0.625 J	3.11	26.5 T8	12.2 J	<13.0	1,140
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.02 J	23,000 T8	<13.0	<13.0	361
	11/06/2020	<1.00	0.497 J	0.362 J	<1.00	<1.00	<5.00	<1.00	4.11	73.8 T8	46.5	<13.0	4,740
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.72 J	35.7 T8	<13.0	<13.0	788
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.62 J	41.9 B T8	<13.0	<13.0	1,380
	11/16/2021	<1.00	<1.00	0.185 J	<1.00	<1.00	<5.00	<1.00	1.75 J	<20 JT8	<13.0	<13.0	249
	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20.0 J T8	5.09 J	<13.0	805
MW-28-D2R	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	< 7.5	< 7.0	67
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	120	< 83	< 77	62
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	91	< 170	< 150	370
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	91	< 330	< 310	880
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	140 B	< 170	< 150	240
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	42	< 330	< 310	730
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	160	<7.5	<7.0	620

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Chevron Facility #6518040
Former Gulf Oil Terminal
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Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175			
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	160	< 4.0	< 3.0	310
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100 B	< 4.0	< 3.0	1,000 B
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	90.0 T8	<13.0	<13.0	239
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	90,300 T8	<13.0	<13.0	212
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	85.8 T8	<13.0	<13.0	618
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	68 T8	<13.0	<13.0	416
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	68.1 T8	<13.0	<13.0	465
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	125 T8	<13.0	<13.0	191
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	136 T8	<13.0	<13.0	83.7
MW-28-D2R	02/02/2022	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	153 T8	<13.0	<13.0	<10.0
MW-29-D1	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	06/21/2016	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	NA	NA	NA	NA
	10/26/2016	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.7	NA	NA	NA	NA
	10/26/2016	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4	NA	NA	NA	NA
	07/05/2017	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.7 J	180	< 300	< 280	680
	08/27/2017	< 2.0	1.7 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.3	150	< 660	< 620	11,000
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.3 J	140	< 170	< 150	5,200
	07/13/2018	< 4.0	3.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	5.5 J	180	< 660	< 620	15,000
	10/18/2018	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.1	210 B	< 1700	< 1500	19,000
	05/10/2019	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3	190	< 83	< 77	9,300 E
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	40	<170	<150	3,200
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	28	1 J	< 3.0	1,100
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	15 B	< 4.0	< 3.0	340 B
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	53.4 T8	5.33 J	<13.0	10,700
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	39,600 T8	<13.0	<13.0	6,710
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	31.7 T8	10.6 J	<13.0	10,700
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	30.9 T8	9.15 J	<13.0	6,640
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	27.3 T8	<13.0	<13.0	660
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<3.00	51.4 B T8	<13.0	<13.0	4,950
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-29-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-30-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-31-D1R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-12	01/14/2016	NA	NA	NA	NA	NA	NA
AMW-13-D1	06/24/2016	3,500	510 B	NA	569,000 B	5,69,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-13-D2	06/23/2016	2,700	740 B	NA	1100 B	7,32,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-13-VD	06/23/2016	26,100	1100 B	NA	1100 B	7,32,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-14-D1	06/24/2016	410	370 B	NA	< 140	8,86,000 B	NA
	07/26/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	4,700	48	16,90,000 ^	NA	7,16,000 B	3,060
	08/27/2017	5,200	49 B	1,730,000	NA	5,63,000 B	3,130
	10/11/2017	4,400	48 B	1,590,000	NA	563,000	1,860
	07/12/2018	1,600	14 B	975,000	NA	6,23,000 B	2,970
	10/17/2018	5,000	55 B	1,560,000	NA	673,000	3,620
	05/10/2019	5,780	94.9	1,740,000	NA	805,000	3,700
	09/13/2019	3,630	70.2	1,680,000	NA	779,000	3,000
	12/05/2019	6,940	59	1,100,000	NA	582,000	2,100
	02/12/2020	5,170	41.1	967,000	NA	386,000	2,400
	06/10/2020	1,800	33.3	1,380,000	NA	613,000	2,750
	08/19/2020	8,480	131	1,930,000	NA	678	2,950
	11/04/2020	3,130	22.0	986,000	NA	581,000	3,030
	03/19/2021	12,500	150	1,950,000	NA	808,000	3,950
	06/02/2021	3,040	70.9	1,890,000	NA	719,000	3,180
	08/12/2021	5,080	88.3	2,060,000	NA	637,000	2,480
11/16/2021	4,560	38.6	1,180,000	NA	674,000	3,010	
02/02/2022	5,220	94.9	1,900,000	NA	541,000	3,090	
AMW-14-D2	06/23/2016	6,600	510 B	NA	740 B	7,40,000 B	NA
	07/26/2016	NA	NA	NA	NA	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	34 J	16 B	13,500	NA	4,39,000 B	4,930
	10/11/2017	17,300	760 B	3,260,000	NA	830,000	4,070
	07/12/2018	2,500	78 B	2,210,000	NA	7,85,000 B	4,380
	10/17/2018	2,700	100 B	2,230,000	NA	4,85,000 B	4,510
	05/10/2019	548	80.1	2,080,000	NA	822,000	4,200
	09/13/2019	1,870	86.3	2,070,000	NA	823,000	3,400
	12/05/2019	6,830	135	2,380,000	NA	727,000	4,200
	02/12/2020	5,590	116	1,630,000	NA	810,000	4,500
	06/10/2020	5,070	119	1,990,000	NA	744,000	4,190
	08/19/2020	17,800	340	2,510,000	NA	832	4,380
	11/05/2020	3,290	104	1,950,000	NA	692,000	4,330
	03/19/2021	28,300	506	2,530,000	NA	750,000	5,310
	06/02/2021	4,590	137	2,340,000	NA	473,000	3,020
	08/12/2021	1,450	111	2,410,000	NA	841,000	4,350
11/16/2021	5,870	145	2,310,000	NA	810,000	4,100	
02/02/2022	3,310	122	2,260,000	NA	816,000	4,690	
AMW-14-VD	06/23/2016	28,300	506	2,530,000	427	427,000	NA
	07/27/2016	28,300	506	2,530,000	NA	NA	NA
	07/05/2017	28,300	506	2,530,000	NA	4,40,000 B	15,200
	08/27/2017	28,300	506	2,530,000	NA	4,15,000 B	15,400
	10/11/2017	28,300	506	2,530,000	NA	454,000	16,200
	07/12/2018	18,400	410 B	8,660,000	NA	4,72,000 B	19,400

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-14-VD (cont.)	10/17/2018	18,500	390 B	9,100,000	NA	4,09,000 B	16,300
	05/10/2019	14,700	387	71,50,000 B	NA	493,000	110,000
	09/13/2019	15,200	376	6,810,000	NA	493,000	14,000
	12/05/2019	18,800	432	8,960,000	NA	493,000	17,000
	02/12/2020	12,800	339	5,740,000	NA	495,000	15,000
	06/10/2020	17,600	381	8,070,000	NA	528,000	18,000
	08/20/2020	16700	389	8,790,000	NA	527	17,000
	11/05/2020	18,000	396	7,940,000	NA	501,000	17,200
	03/19/2021	18,500	395	8,320,000	NA	522,000	17,300
	06/02/2021	18,900	396	8,510,000	NA	542,000	16,100
	08/12/2021	19,400	393	8,190,000	NA	540,000	16,700
	11/16/2021	20,000	383	8,670,000	NA	448,000	13,500
	02/02/2022	18,200	411	8,690,000	NA	518,000	16,100
	AMW-15-D1	06/23/2016	2,200	500 B	NA	602	602,000
07/27/2016		NA	NA	NA	NA	NA	NA
10/26/2016		1,900 B	70 B	NA	130	130,000	NA
10/26/2016		95 B	110 B	NA	528	528,000	NA
07/05/2017		2,100	84	17,50,000 ^	NA	597,000	73.2
08/27/2017		12,400	170 B	1,520,000	NA	4,71,000 B	2,480
10/11/2017		6,900	100 B	17,10,000 ^	NA	641,000	2,760
10/17/2018		3,900	320	989,000	NA	442,000	1,910
05/09/2019		3,340	335	1,170,000	NA	422,000	2,500
09/13/2019		3,740	311	1,160,000	NA	254,000	1,700
12/05/2019		3,550	243	1,200,000	NA	424,000	2,000
02/11/2020		4,740	303	1,050,000	NA	206,000	1,800
06/10/2020		512	150	1,050,000	NA	393,000	2,010
08/19/2020		1,320	126	1,460,000	NA	442	1990
11/04/2020		800	80.5	1,030,000	NA	425,000	2,250
03/19/2021		13,700	113	1,210,000	NA	598,000	2,590
06/02/2021		597	55.6	1,040,000	NA	466,000	2,050
11/16/2021		612	17.9	1,230,000	NA	494,000	2,140
02/01/2022		1,150	26.7	1,280,000	NA	496,000	2,260
AMW-15-D2	06/23/2016	110	5.8 B	NA	50 B	1,81,000 B	NA
	06/23/2016	120	6.3 B	NA	185	185,000	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	10/26/2016	50 B	85 B	NA	99.9	99,900	NA
	10/26/2016	< 50	98 B	NA	600	600,000	NA
	07/05/2017	700	110	20,90,000 ^	NA	687,000	3,700
	08/27/2017	3,500	140 B	2,200,000	NA	6,73,000 B	3,650
	10/11/2017	4,500	130 B	21,50,000 ^	NA	811,000	3,710 F1
	10/17/2018	750	55	2,130,000	NA	461,000	3,790
	05/10/2019	328	72	2,030,000	NA	672,000	4,200
	09/13/2019	493	54.6	2,030,000	NA	649,000	3,800
	12/05/2019	739	62.7	1,870,000	NA	636,000	4,000
	02/11/2020	978	69.9	1,820,000	NA	651,000	4,200
	06/09/2020	595	75.7	1,580,000	NA	610,000	3,750
	08/19/2020	10,500	150	2,230,000	NA	413	2410
	11/04/2020	963	76.6	1,940,000	NA	540,000	4,150
	03/19/2021	14,800	258	2,220,000	NA	590,000	3,500
	06/02/2021	10,100	97.9	2,220,000	NA	313,000	935
	08/12/2021	1,850	100	2,010,000	NA	578,000	3,140
	11/16/2021	362	166	1,450,000	NA	490,000	2,990
	02/01/2022	1,450	102	1,880,000	NA	616,000	3,510

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Table 3
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Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-15-D3	06/23/2016	98	250 B	NA	2,980,000 ^	6,17,000 B	NA
	06/23/2016	120	240 B	NA	< 5	12,200 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	2,300	450 B	29,80,000 ^	NA	4,08,000 B	4,230
	10/11/2017	450	99 B	25,00,000 ^	NA	508,000	7,530
	07/13/2018	3,100	1,100 B	3,870,000	NA	5,18,000 B	4,670
	10/17/2018	260	200	2,610,000	NA	108,000	7,380
	05/10/2019	301	222	2,730,000	NA	616,000	8,800
	09/13/2019	612	231	2,720,000	NA	646,000	4,400
	12/05/2019	349	97.4	1,550,000	NA	594,000	5,300
	02/11/2020	3,631	106	1,330,000	NA	626,000	2,600
	06/09/2020	1,130	138	1,690,000	NA	676,000	4,630
	08/19/2020	3,030	871	3,930,000	NA	479	8160
	11/04/2020	795	131	1,660,000	NA	649,000	4,790
	03/19/2021	439	484	2,960,000	NA	310,000	3,000
	06/01/2021	657	628	3,350,000	NA	493,000	683
	08/12/2021	92.4 J	1.65 J	462,000	NA	567,000	639
11/16/2021	584	8.71 J	479,000	NA	350,000	621	
02/01/2022	440	631	3,100,000	NA	236,000	2,480	
AMW-15-VD	06/23/2016	4,200	200 B	NA	303	303,000	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	11,800	350 B	8,910,000	NA	135,000 B	16,100
	10/11/2017	11,700	340 B	91,80,000 ^	NA	329,000	16,000
	07/13/2018	10,600	320 B	8,290,000	NA	3,57,000 B	19,200
	10/17/2018	10,700	310	8,770,000	NA	271,000	13,200
	05/10/2019	3,600	287	8,560,000	NA	432,000	18,000
	09/13/2019	7,650	192	5,240,000	NA	429,000	16,000
	12/05/2019	5,150	220	6,360,000	NA	478,000	17,000
	02/11/2020	2,850	157	4,770,000	NA	468,000	15,000
	06/09/2020	5,330	213	6,680,000	NA	517,000	18,000
	08/19/2020	6,080	230	6,370,000	NA	509	17,000
	11/04/2020	4,530	280	8,440,000	NA	523,000	17,300
	03/19/2021	10,200	288	8,660,000	NA	523,000	17,300
	06/02/2021	663	12.8	204,000	NA	238,000	6,130
	08/12/2021	5,030	538	31,600	NA	529,000	16,500
	11/16/2021	13,300	281	8,640,000	NA	507,000	16,700
02/01/2022	6,990	264	8,650,000	NA	598,000	16,800	
AMW-3	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	16,200	1,400 B	NA	351	351,000	NA
AMW-7R	01/12/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	170	74 B	NA	2,900 B	1,99,000 B	NA
	07/11/2018	20,000	2,500 B	199,000	NA	8,81,000 B	253
	10/17/2018	12,500	2,900 B	168,000	NA	997,000	192
	05/10/2019	8,080	2,770	105,000	NA	558,000	120 F1
	09/14/2019	6,840	2,770	95,700	NA	651,000	62
	12/06/2019	4,790	1,420	93,300	NA	462,000	80
	02/12/2020	24,900	2,730	86,900	NA	597,000	85
	06/09/2020	16,000	2,270	93,200	NA	516,000	100
	08/19/2020	94900	3080	113,000	NA	656	86.6
	11/06/2020	33,200	3,500	111,000	NA	723,000	78.2

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry			
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250	
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	
AMW-7R (cont.)	03/19/2021	35,500	2,390	234,000	NA	615,000	547	
	06/02/2021	21,800	2,160	168,000	NA	514,000	262	
	08/12/2021	8,720	2,450	193,000	NA	708,000	181	
	11/16/2021	3,360	1,640	108,000	NA	640,000	77	
ASB-2	06/06/2016	NA	NA	NA	NA	NA	NA	
ASB-3	06/08/2016	NA	NA	NA	NA	NA	NA	
ASB-4	06/07/2016	NA	NA	NA	NA	NA	NA	
ASB-5	06/02/2016	NA	NA	NA	NA	NA	NA	
ASB-7	06/02/2016	NA	NA	NA	NA	NA	NA	
MW-18R	06/22/2016	11,500 B	470 B	NA	20,000 B	5,15,000 B	NA	
	07/11/2018	1,400	17 B	161,000	NA	1,84,000 B	367	
	10/17/2018	450	26 B	193,000	NA	365,000	259	
	09/14/2019	11,700	110	310,000	NA	386,000	480	
	12/05/2019	3,100	30.8	323,000	NA	225,000	400	
	02/12/2020	9,770	49.9	45,100	NA	24,400	77	
	06/09/2020	5,240	28.9	204,000	NA	101,000	269	
	03/19/2021	1,450	11.7	191,000	NA	131,000	223	
	06/02/2021	1,270	18.5	362,000	NA	83,300	835	
	08/12/2021	1,250	59.9	609,000	NA	206,000	1,340	
	11/16/2021	553	42.6	507,000	NA	199,000	853	
	02/02/2022	--	--	--	NA	--	--	
	MW-23-D1R	10/26/2016	< 50	21 B	NA	555	555,000	NA
		10/26/2016	240 B	670 B	NA	525	525,000	NA
01/12/2016		NA	NA	NA	NA	NA	NA	
06/20/2016		660	690 B	NA	485	485,000	NA	
07/05/2017		17,100	3,100	11,90,000 ^	NA	500,000	1,970	
08/27/2017		33,900	2200 B	11,90,000 ^	NA	5,12,000 B	2,190	
10/12/2017		3,800	1000 B	12,30,000 ^	NA	562,000	2,270	
07/12/2018		4,300	810 B	1,360,000	NA	4,95,000 B	2,250	
10/17/2018		1,900	930	1,220,000	NA	360,000	2,260	
09/13/2019		1,460	636	971,000	NA	467,000	2,000	
12/05/2019		2,020	852	389,000	NA	309,000	1,300	
02/11/2020		2,650	191	474,000	NA	173,000	730	
06/10/2020		1,430	511	1,240,000	NA	320,000	1,690	
08/19/2020		6,320	1,260	1,300,000	NA	543	2,340	
11/05/2020		3,260	1,050	1,300,000	NA	401,000	2,030	
03/19/2021		105,000	4,350	1,310,000	NA	469,000	2,470	
06/02/2021		5,830	1,660	1,280,000	NA	583,000	2,310	
08/12/2021		2,970	973	1,320,000	NA	516,000	2,330	
11/16/2021	3,070	1,120	770,000	NA	275,000	1,390		
02/02/2022	11,400	1,090	1,340,000	NA	357,000	1,920		
MW-23-D2R	01/12/2016	NA	NA	NA	NA	NA	NA	
	06/20/2016	40 J	110 B	NA	543	543,000	NA	
	07/05/2017	4,400	210	21,90,000 ^	NA	520,000	5,260	
	08/27/2017	1,800	170 B	19,30,000 ^	NA	4,34,000 B	5,420	
	10/12/2017	2,800	140 B	25,70,000 ^	NA	654,000	4,460	
	07/12/2018	1,660	279	1,930,000	NA	587,000	3,800	
	05/09/2019	1,660	279	1,930,000	NA	587,000	3,800	
	09/13/2019	25,700	2,350	1,600,000	NA	415,000	2,500	
	12/05/2019	26,100	2,120	1,410,000	NA	349,000	2,400	
	08/19/2020	46,200	290	2,340,000	NA	505	3,710	
	11/05/2020	12,700	2,830	1,900,000	NA	398,000	3,730	

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry			
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250	
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	
MW-23-D2R (cont.)	03/18/2021	8,940	139	2,220,000	NA	667,000	4,360	
	06/02/2021	1,520	267	2,010,000	NA	540,000	3,500	
	08/12/2021	1,380	1,550	1,560,000	NA	376,000	3,250	
	11/16/2021	2,140	1,510	1,710,000	NA	600,000	3,710	
	02/02/2022	953	1,400	1,620,000	NA	529,000	3,630	
MW-24-D1R	01/13/2016	NA	NA	NA	NA	NA	NA	
	06/21/2016	32 J	60 B	NA	550 J	6,42,000 B	NA	
	10/26/2016	< 50	49 B	NA	526	526,000	NA	
	10/26/2016	58 B	8.9 B	NA	324	324,000	NA	
	10/26/2016	24 J B	59 B	NA	577	577,000	NA	
	07/12/2018	10,100	120 B	2,140,000	NA	8,75,000 B	4,220	
	10/16/2018	2,900	91	1,070,000	NA	583,000	2,370	
	05/09/2019	4,120	79.6	1,720,000	NA	572,000	3,900	
	09/13/2019	2,140 [4,060]	32.1 [56.5]	13,20,000 [15,20,000]	NA	4,11,000 [5,88,000]	1,800 [3,000]	
	12/05/2019	1,540 [1,410]	40.6 [38.3]	13,40,000 [11,70,000]	NA	3,01,000 [5,14,000]	1,900 [2,000]	
	02/11/2020	196 [426]	13.1 J [15]	13,70,000 [15,40,000]	NA	3,78,000 [5,30,000]	2,300 [2,500]	
	06/09/2020	1,290 [2,340]	22.6 [40.8]	15,50,000 [16,50,000]	NA	6,03,000 [6,05,000]	2,910 [3,200]	
	08/19/2020	674 [819]	9.41 J [14.6]	14,40,000 [14,70,000]	NA	423 [485]	2,360 [2,390]	
	11/05/2020	486 [631]	9.69 J [10.4]	1,430,000 [1,420,000]	NA	290,000 [287,000]	2,380 [2,310]	
	03/19/2021	415 [4,070]	7.67 J [42.5]	1,430,000 [1,330,000]	NA	461,000 [523,000]	2,640 [2,750]	
	06/01/2021	722 [2,570]	12.4 [39.2]	1,480,000 [1,560,000]	NA	475,000 [586,000]	2,730 [2,840]	
	11/16/2021	3,390 [15,100]	294 [290]	1,370,000 [1,390,000]	NA [NA]	413,000 [313,000]	2,300 [2,500]	
	02/02/2022	2,270 [6,490]	333 [290]	1,360,000 [1,390,000]	NA [NA]	298,000 [359,000]	2,350 [2,350]	
	MW-24-D2	01/13/2016	NA	NA	NA	NA	NA	NA
		01/13/2016	NA	NA	NA	NA	NA	NA
06/21/2016		40 J	55 B	NA	298,000 B	7,41,000 B	NA	
10/25/2016		49 J	62	NA	512	512,000	NA	
10/25/2016		< 50	56	NA	759	759,000	NA	
07/05/2017		1,800	88	25,20,000 ^	NA	667,000	4,060	
08/27/2017		6,600	160 B	2,260,000	NA	7,74,000 B	4,100	
10/11/2017		5,500	140 B	23,80,000 ^	NA	804,000	3,720	
07/12/2018		1,100	33 B	94,900	NA	1,14,000 B	182	
10/17/2018		610	32	1,08,000 ^	NA	102,000	201	
05/09/2019		391	7.7 J	100,000	NA	112,000	89	
09/13/2019		2,160	35.6	81,400	NA	108,000	49	
12/05/2019		2,090	58.7	366,000	NA	190,000	550	
02/11/2020		1,450	22.2	349,000	NA	482,000	340	
06/09/2020		380	24.8	471,000	NA	267,000	805	
08/18/2020		436	32.8	518,000	NA	235	728	
11/05/2020		491	36.4	819,000	NA	241,000	724	
03/19/2021		1,960	51.9	1,210,000	NA	607,000	2,240	
06/01/2021		1,480	56.0	1,470,000	NA	674,000	2,360	
MW-24-VDR		11/16/2021	556	22.4	453,000	NA	320,000	854
	02/02/2022	355	60.2	1,680,000	NA	740,000	2,720	
	07/12/2018	37900	910 B	8,960,000	NA	4,54,000 B	16,000	
	10/17/2018	26,100	740	8,730,000	NA	416,000	13,100	
	05/09/2019	25,200	597	6,100,000	NA	461,000	16,000	
	09/13/2019	8,910	235	2,520,000	NA	295,000	7,300	
	12/05/2019	36,500	694	9,030,000	NA	446,000	17,000	
	02/11/2020	31,500	523	7,000,000	NA	474,000	15,000	
	06/09/2020	37,100	454	7,320,000	NA	337,000	13,700	

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-24-VDR (cont.)	08/18/2020	44,900	578	8,910,000	NA	332	12,800
	11/05/2020	45,100	588	8,850,000	NA	388,000	15,800
	03/19/2021	63,900	687	8,250,000	NA	459,000	17,300
	06/01/2021	53,700	574	8,160,000	NA	413,000	15,500
	11/16/2021	1,130	7.12 J	47,300	NA	18,900 J	172
MW-26-D1	01/12/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	< 50	35 B	NA	569,000 B	5,69,000 B	NA
	10/25/2016	< 50	25	NA	479	479,000	NA
	10/25/2016	< 50	37	NA	591	591,000	NA
	07/05/2017	230	41	15,70,000 ^	NA	542,000	2,520
	08/27/2017	640	48 B	1,500,000	NA	5,32,000 B	2,530
	10/11/2017	190	75 B	304,000	NA	177,000	483
	07/13/2018	320	35 B	1,640,000	NA	558,000	2,810
	10/17/2018	280	24 B	1,510,000	NA	416,000	2,540
	09/13/2019	93.9 J	19.2	1,400,000	NA	542,000	3,000
	12/06/2019	364	18	1,260,000	NA	405,000	2,000
	02/11/2020	1,080	25.6	1,440,000	NA	405,000	2,100
	06/10/2020	553	21.4	1,300,000	NA	438,000	2,400
	08/19/2020	1,340	31.4	1,370,000	NA	500	2,360
	11/06/2020	554	21.4	1,360,000	NA	387,000	2,340
	06/02/2021	805	28.3	1,320,000	NA	443,000	2,330
	08/12/2021	544	32.9	1,150,000	NA	479,000	2,060
	11/16/2021	335	17.9	1,320,000	NA	418,000	2,290
	02/02/2022	152 B	15.9	1,340,000	NA	411,000	2,500
	MW-26-D2	01/12/2016	NA	NA	NA	NA	NA
06/22/2016		490 B	700 B	NA	344	344,000	NA
10/25/2016		55	63	NA	NA	NA	NA
10/25/2016		< 50	140	NA	653	653,000	NA
07/05/2017		970	420	39,30,000 ^	NA	348,000	9,010
08/27/2017		970	310 B	3,370,000	NA	379,000	7,980
10/11/2017		1,100	160 B	2,770,000	NA	435,000	8,600
10/17/2018		150	52 B	2,190,000	NA	509,000	3,820
05/09/2019		466	75.2	2,420,000	NA	684,000	5,000
09/13/2019		207	65.6	2,270,000	NA	702,000	4,000
12/06/2019		54.4 J	59.8	2,340,000	NA	628,000	4,000
02/11/2020		348	88.8	2,500,000	NA	588,000	3,900
06/10/2020		84.3 J	68.3	2,190,000	NA	671,000	4,390
08/19/2020		402	99.5	2,280,000	NA	638	4,160
11/16/2021		1,310	1,300	2,320,000	NA	168,000	5,590
MW-26-VD	01/13/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	74,000 B	2,600 B	NA	61 B	1,76,000 B	NA
MW-27-D1R	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	430	200 B	NA	51,600	7,95,000 B	NA
	07/05/2017	2,800	56	11,30,000 ^	NA	3,94,000 B	2,860
	08/27/2017	1,300	330 B	960,000	NA	884,000	5,640
	07/13/2018	8,200	170 B	1,690,000	NA	5,26,000 B	2,770
	10/18/2018	2,100	61 B	1,770,000	NA	725,000	3,890
	05/10/2019	51,600	456	1,900,000	NA	579,000	3,500
	09/14/2019	12,800	161	2,090,000	NA	724,000	3,400

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-27-D1R (cont.)	12/05/2019	1,310	51.9	1,920,000	NA	762,000	3,800
	08/19/2020	10,600	156	2,710,000	NA	945	5,060
	11/06/2020	10,900	176	2,140,000	NA	652,000	3,870
	03/20/2021	8,780	150	2,160,000	NA	788,000	4,300
	06/02/2021	59,600	622	2,230,000	NA	795,000	4,330
	08/12/2021	6,400	138	2,120,000	NA	839,000	3,970
	11/17/2021	684	57.9	2,270,000	NA	764,000	4,260
	02/02/2022	3,770	100	2,150,000	NA	675,000	4,100
MW-27-D2	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	1,300	38 B	NA	940 B	2,79,000 B	NA
	07/05/2017	12,400	550	26,90,000 ^	NA	4,08,000 B	6,330
	08/27/2017	11,600	1,200 B	31,40,000 ^	NA	303,000	9,140
	10/12/2017	9,500	1,700 B	44,60,000 ^	NA	374,000	8,290
	07/13/2018	4,600	340 B	2,530,000	NA	3,63,000 B	7,510
	10/18/2018	2,800	940 B	3,580,000	NA	195,000	8,300
	05/10/2019	902	197	505,000	NA	599,000	4,100
	09/14/2019	4,080	272	1,120,000	NA	638,000	3,500
	12/05/2019	1,190	174	1,620,000	NA	526,000	3,600
	02/12/2020	1,920	230	1,940,000	NA	511,000	3,800
	06/10/2020	887	97.6	1,880,000	NA	496,000	4,660
	08/19/2020	747	199	2,470,000	NA	397	3,690
	11/06/2020	1,360	996	3,260,000	NA	323,000	7,520
	03/20/2021	10,600	1,610	4,090,000	NA	291,000	8,920
	06/02/2021	12,700 O1	1,600 O1	4,510,000	NA	275,000	9,290
	08/12/2021	9,250	1,600	4,250,000	NA	338,000	7,000
	11/17/2021	5,380	1,280	3,690,000	NA	252,000	6,730
	02/02/2022	12,200	1,680	4,350,000	NA	333,000	7,580
MW-28-D1	06/24/2016	79	68 B	NA	667,000	7,45,000 B	NA
	07/28/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	3,600	67	418,000 ^	NA	457,000	3,120
	08/27/2017	740	19 B	10,40,000 ^	NA	393,000	3,310
	10/11/2017	950	27 B	998,000	NA	196,000	1,530
	10/17/2018	980	22 B	386,000	NA	102,000	945
	05/09/2019	2,480	89	1,940,000	NA	667,000	3,300
	09/13/2019	511	63.1	1,970,000	NA	735,000	2,900
	12/05/2019	169	10.4 J	874,000	NA	337,000	1,800
	02/11/2020	253	49.4	1,160,000	NA	495,000	1,900
	06/09/2020	226	47.8	1,360,000	NA	472,000	2,570
	08/19/2020	167	57.7	1,410,000	NA	496	2,490
	11/06/2020	54.8 J	51.3	1,540,000	NA	548,000	3,110
	06/02/2021	88.9 J	40.0	1,340,000	NA	305,000	1,410
	08/12/2021	101	36.0	867,000	NA	485,000	1,970
	11/16/2021	820	43.1	108,000	NA	104,000	202
	02/02/2022	240 B	14.3	129,000	NA	125,000	157
MW-28-D2R	06/24/2016	52,800	1,100 B	NA	182	182,000	NA
	07/28/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	6,800	340	38,10,000 ^	NA	334,000	9,090
	08/27/2017	6,000	500 B	5,340,000	NA	3,37,000 B	11,300 B
	10/11/2017	9,300	470 F1 B	4,750,000	NA	412,000	6,670
	07/13/2018	5,200	190 B	3,000,000	NA	4,68,000 B	4,010
	10/17/2018	2,200	710 B	4,670,000	NA	333,000	9,820
	05/09/2019	569	224	2,850,000	NA	385,000	7,600
	09/13/2019	450	241	2,700,000	NA	428,000	4,600

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-28-D2R (cont.)	12/06/2019	463	989	4,430,000	NA	349,000	7,400
	02/11/2020	252	184	1,620,000	NA	276,000	3,600
	06/09/2020	5,050	1,730	4,130,000	NA	339,000	18,800
	08/19/2020	48,300	855	5,750,000	NA	343	9,550
	11/06/2020	5,890	370	2,760,000	NA	395,000	6,460
	03/20/2021	4,220	1,190	5,210,000	NA	347,000	10,800
	06/02/2021	7,120	1,290	5,370,000	NA	348,000	10,900
	08/12/2021	7,560	2,180	4,570,000	NA	369,000	7,480
	11/16/2021	6,620	2,020	4,550,000	NA	341,000	5,880
MW-28-D2R	02/02/2022	5,270	2,120	4,370,000	NA	337,000	9,970
MW-29-D1	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	520	270 B	NA	4.3 J	5,67,000 B	NA
	10/26/2016	220 B	250 B	NA	540	540,000	NA
	10/26/2016	< 50	5.2 B	NA	547	547,000	NA
	07/05/2017	460	350	9,51,000 ^	NA	556,000	1,610
	08/27/2017	2,400	150 B	24,70,000 ^	NA	5,60,000 B	1,580
	10/12/2017	3,400	300 B	8,93,000 ^	NA	619,000	1,530
	07/13/2018	1,300	340 B	988,000	NA	5,63,000 B	1,680
	10/18/2018	1,500	270 B	960,000	NA	535,000	1,550
	05/10/2019	1,450	470	839,000	NA	469,000	1,700
	09/14/2019	4,370	58.4	23,500	NA	40,100	58
	12/06/2019	673	32.1	75,900	NA	63,500	130
	02/12/2020	2,040	131	105,000	NA	62,700	160
	06/10/2020	741	161	643,000	NA	273,000	1,050
	08/19/2020	1,360	172	574,000	NA	256	950
	11/06/2020	199	146	460,000	NA	208,000	795
	03/20/2021	8,750	205	524,000	NA	285,000	975
	06/02/2021	42,600	484	437,000	NA	174,000	566
	08/12/2021	5,200	272	446,000	NA	235,000	787
MW-29-D2	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	64	150 B	NA	430 B	4,53,000 B	NA
MW-29-VD	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	390	62 B	NA	229 B	2,29,000 B	NA
MW-30-D1	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	360 B	93 B	NA	841 B	8,41,000 B	NA
MW-30-D2	01/14/2016	NA	NA	NA	NA	NA	NA
	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	< 50	110 B	NA	755 B	7,55,000 B	NA
MW-30-VD	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	4,900 B	260 B	NA	713 B	7,13,000 B	NA
MW-31-D1R	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	230 B	25 B	NA	221 B	2,21,000 B	NA
MW-31-D2R	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	2,200 B	430 B	NA	508 B	5,08,000 B	NA

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2022
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Notes:

ID = Identification

NYSDEC = New York State Department of Environmental Conservation

TOGS = NYSDEC Technical and Operational Guidance Series ambient water quality standards and guidance values of June 1998

ug/L = micrograms per liter

Bolded values = compound was detected

Shaded cells = concentration was above the TOGS

< = Less than indicated reporting limit

NE = Not established

CaCO₃ = calcium carbonate

J = Analyte detected at a level less than the Reporting Limit and greater than or equal to the Method Detection Limit. Concentrations within this range are estimated.

J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.

J4 = The associated batch QC was outside the established quality control range for accuracy.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low

T8 = Sample(s) received past/too close to holding time expiration.

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

H = Sample was prepped or analyzed beyond the specified holding time.

B = Compound was found in the blank and sample.

F1 = Matrix spike and/or matrix spike duplicate recovery was outside acceptance limits.

E = Result exceeded calibration range

C3 = The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

C5 = The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

[] = Duplicate analysis results

D = Sample was diluted due to high concentration of target analytes.

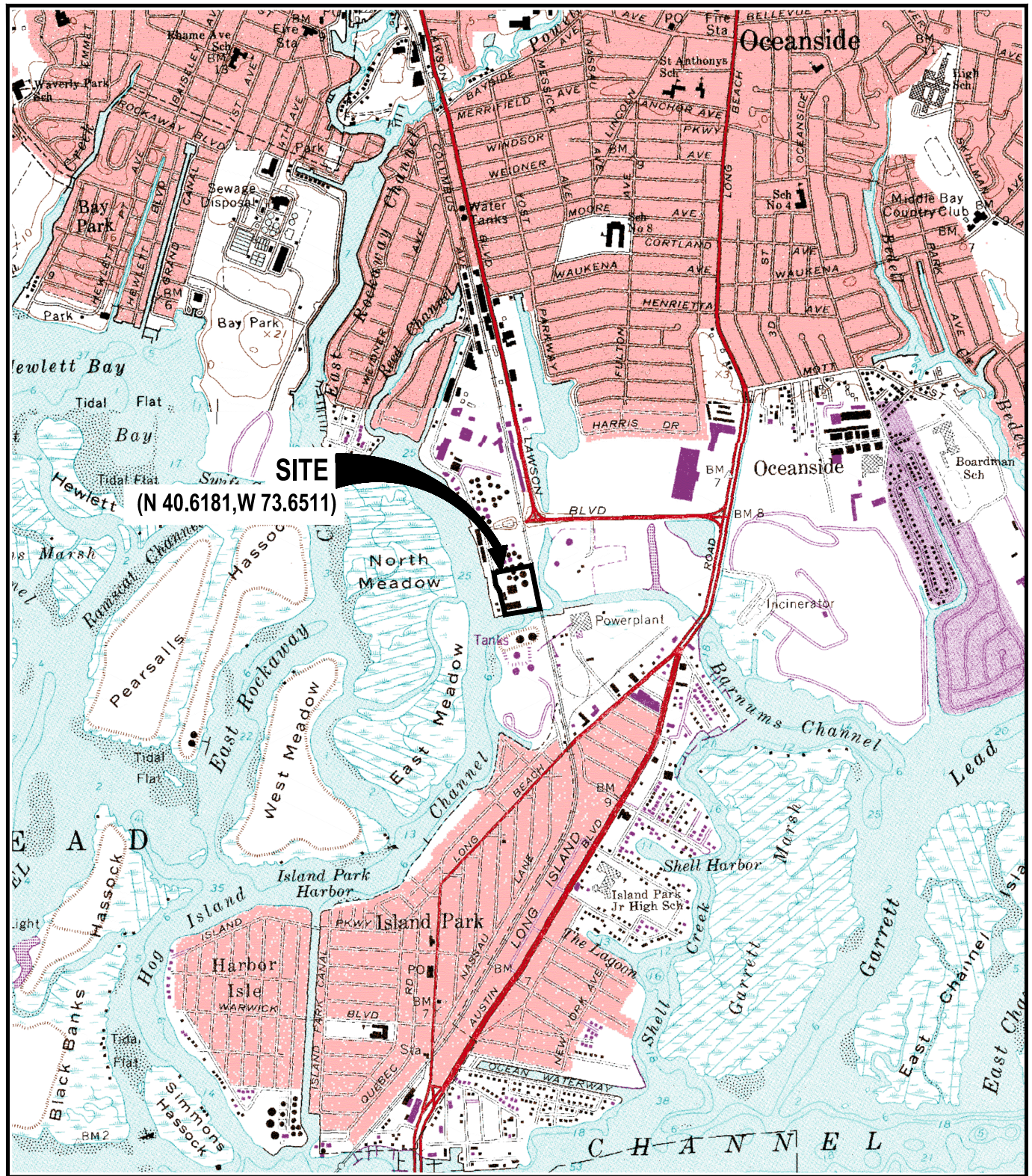
O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

* = LCS or LCSD was above the control limits.

^ = Instrument related QC was outside acceptance limits.

-- = Not available

Figures

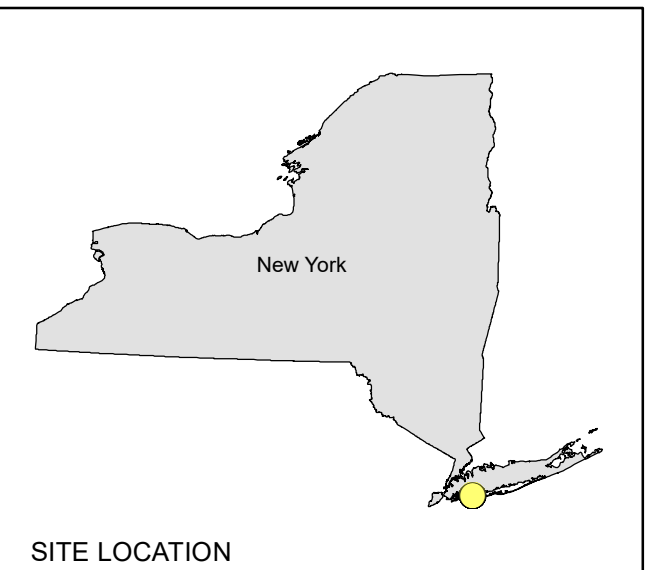


MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE 1979 LYNBROOK AND LAWRENCE, NEW YORK

FORMER GULF OIL TERMINAL
 (CHEVRON FACILITY #6518040)
 OCEANSIDE, NEW YORK

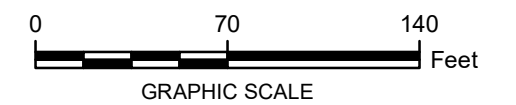
SITE LOCATION MAP

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: av00976
TA: ENV/Chevron Oceanside NY/ProgressReport/mt/SitePlan.mxd 4/28/2021 10:28:01 AM



LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS



NOTE:

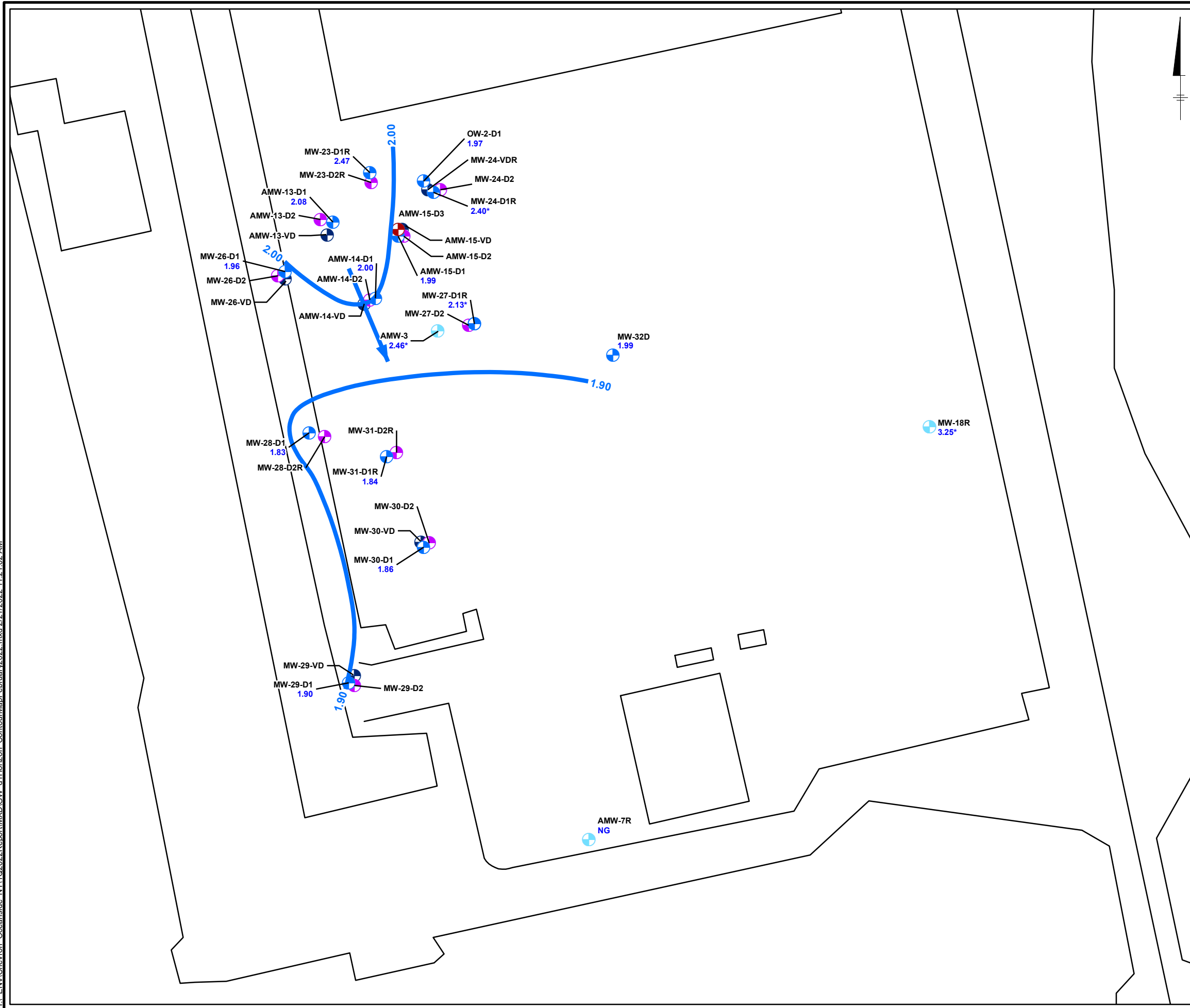
- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

SITE PLAN



City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: av00976
T1: ENV/Chevron Oceanside NY1102022Report\MD\GW of Horizon ContourMapFebruary2022.mxd 2/21/2022 11:21:02 AM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION
- 2.00 GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- 3.25* NOT USED TO GENERATE CONTOURS
- NG NOT GAUGED

0 70 140 Feet
GRAPHIC SCALE

NOTE:

- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
- THE WELLS WERE GAUGED DURING HIGH TIDE.

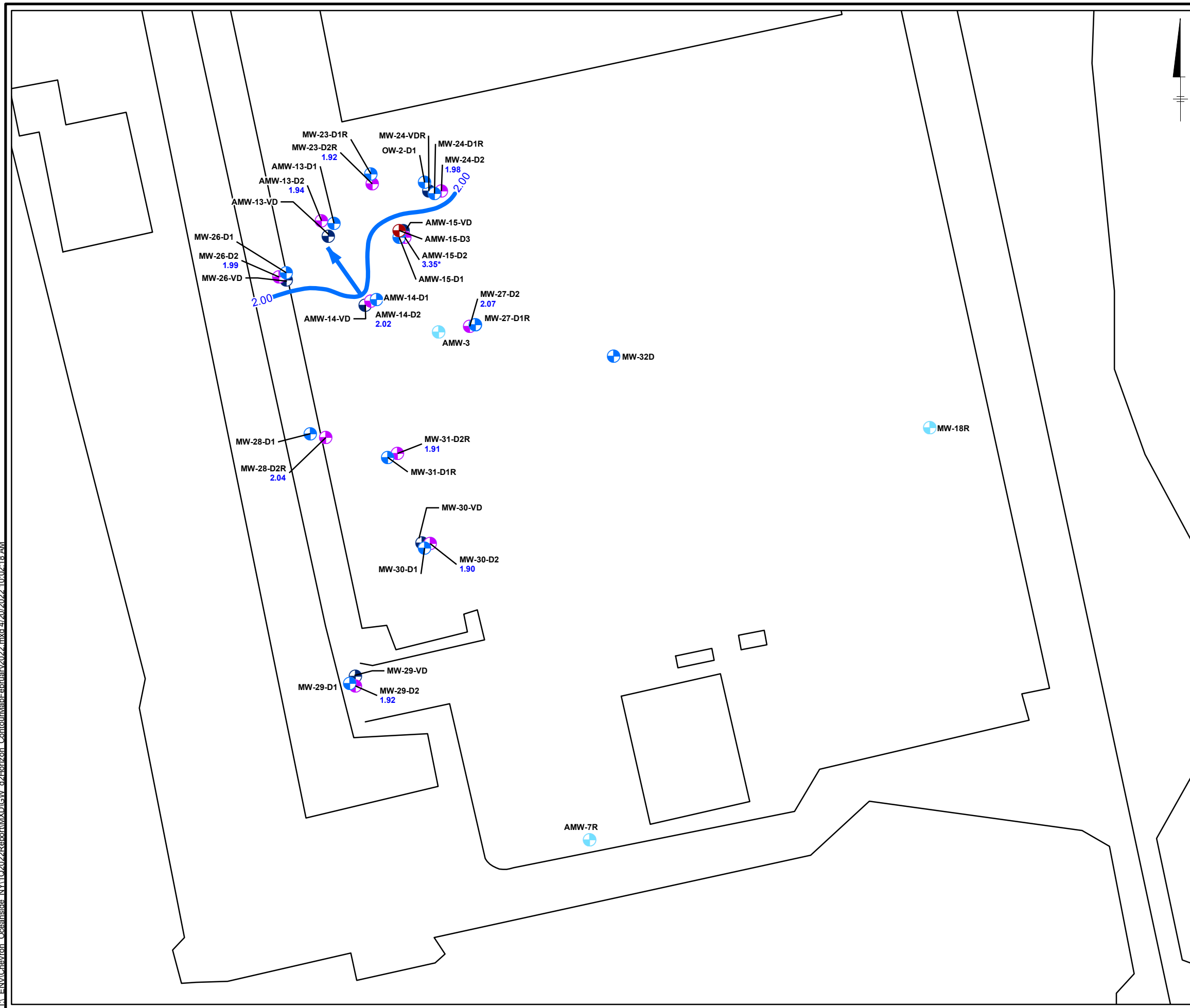
CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**D1 HORIZON GROUNDWATER
CONTOUR MAP
FEBRUARY 01, 2022**

ARCADIS

FIGURE
3

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: av00976
T:\ENV\Chevron_Oceanside_NY\102022\Report\MD\GW_d2\Horizon_ContourMap\February2022.mxd 4/20/2022 10:02:18 AM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- NOT USED TO GENERATE CONTOURS

GRAPHIC SCALE

0 70 140 Feet

NOTE:

- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
- THE WELLS WERE GAUGED DURING HIGH TIDE.

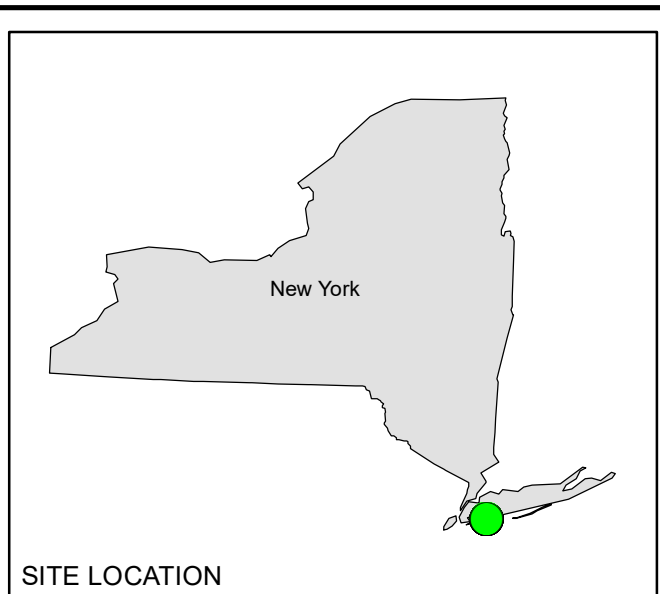
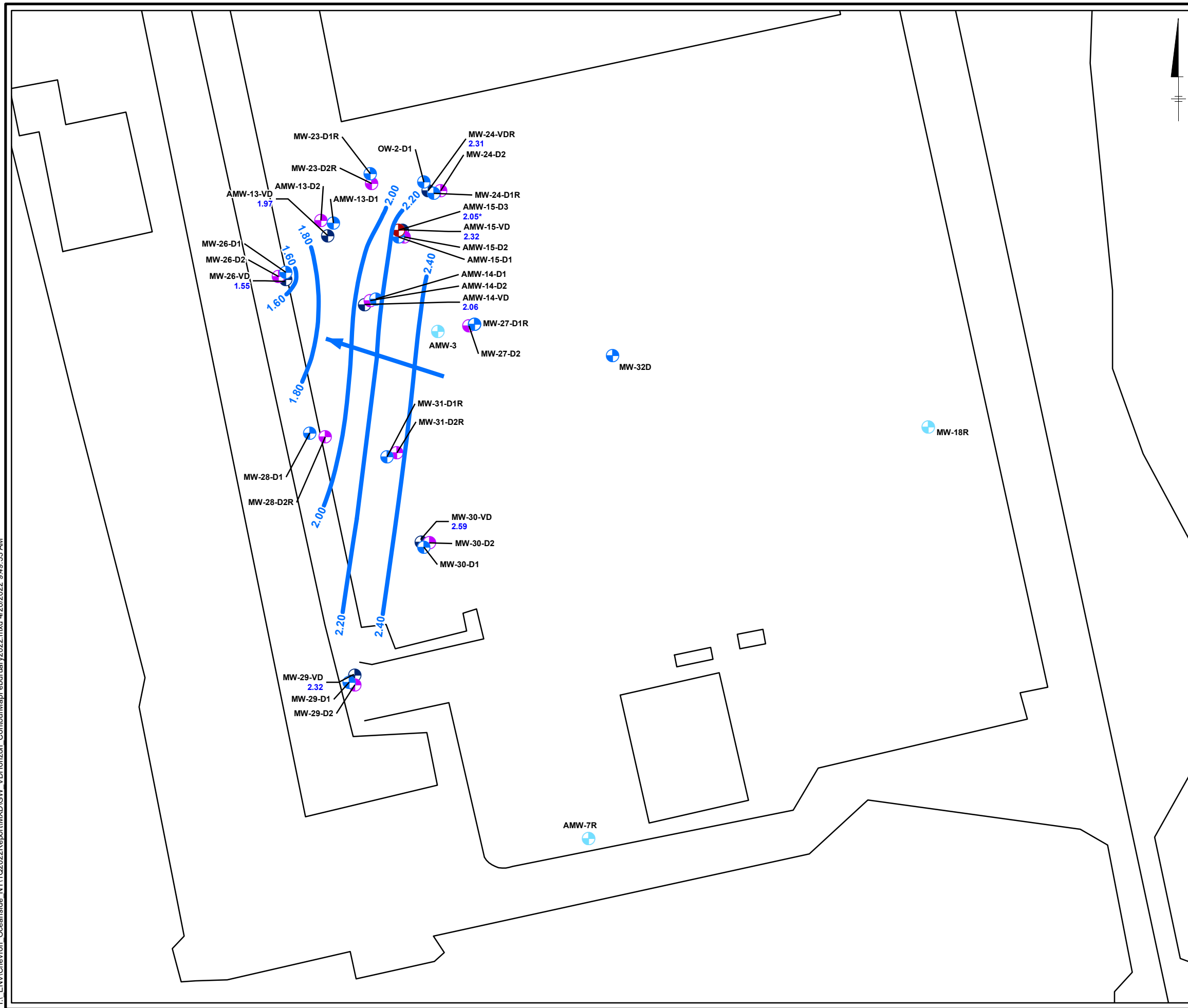
CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**D2 HORIZON GROUNDWATER
CONTOUR MAP
FEBRUARY 01, 2022**

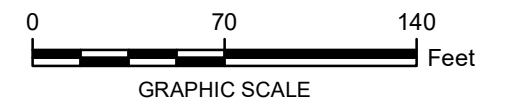
ARCADIS

**FIGURE
4**

City: SYR Div/Group: IMDV Created By: J Rapp Last Saved By: av00976
T:\ENVChevron_Oceanside_NY\102022Report\MXD\GW_VDHorizon_ContourMapFebruary2022.mxd 4/20/2022 9:49:53 AM



- LEGEND:
- SHALLOW FILL UNIT MONITORING WELLS
 - D1 HORIZON MONITORING WELLS
 - D2 HORIZON MONITORING WELLS
 - D3 HORIZON MONITORING WELLS
 - VD HORIZON MONITORING WELLS
 - GROUNDWATER ELEVATION CONTOUR (NAVD 88)
 - APPROXIMATE FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR (NAVD 88)
 - NOT USED TO GENERATE CONTOURS



- NOTE:
- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
 - THE WELLS WERE GAUGED DURING HIGH TIDE.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**VD HORIZON GROUNDWATER
CONTOUR MAP
FEBRUARY 01, 2022**





LEGEND:

-  SHALLOW FILL UNIT MONITORING WELLS
-  D1 HORIZON MONITORING WELLS
-  D2 HORIZON MONITORING WELLS
-  D3 HORIZON MONITORING WELLS
-  VD HORIZON MONITORING WELLS

Parameter Name	NYDEC TOGS 1.1.1
Benzene	1 ug/L
Ethylbenzene	5 ug/L
Methyl t-butyl ether	10 ug/L
trans-1,2-Dichloroethene	5 ug/L
Vinyl Chloride (Chloroethene)	2 ug/L
Xylene (total)	5 ug/L
cis-1,2-Dichloroethene	5 ug/L
Trichloroethene	5 ug/L

NOTES:
2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
CONCENTRATIONS ARE IN MICROGRAMS PER LITER (UG/L)
ID = IDENTIFICATION
NYSDEC = NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
TOGS = NYSDEC TECHNICAL AND OPERATIONAL GUIDANCE
SERIES AMBIENT WATER QUALITY STANDARDS AND
GUIDANCE VALUES OF JUNE 1998
BOLDED VALUES = COMPOUND DETECTED
GREY SHADED CELLS = CONCENTRATION ABOVE THE TOGS
J = ANALYTE DETECTED AT A LEVEL LESS THAN THE
REPORTING LIMIT (RL) AND GREATER THAN OR
EQUAL TO THE METHOD DETECTION LIMIT (MDL).
CONCENTRATIONS WITHIN THIS RANGE ARE ESTIMATED.
[] = DUPLICATE ANALYSIS RESULTS
< = LESS THAN INDICATED REPORTING LIMIT

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

GROUNDWATER ANALYTICAL RESULTS
FEBRUARY 01 AND 02, 2022

 **ARCADIS** | **FIGURE**
6

Attachment 1

Groundwater Gauging and Sampling Logs

TABLE 2
SUMMARY OF GROUNDWATER GAUGING DATA
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NEW YORK

Monitoring Well	Date	Well Diameter (in)	Well Depth (ft btoc)	Top of Casing Elevation (ft)*	Depth to Water (ft btoc)	Depth to Bottom (ft btoc)	VOL
AMW-3	2/1/2022	2	12.42	9.05	6.59	12.35	10.8
AMW-13-D1		2	34.01	9.87	7.79	32.82	0.0
AMW-13-D2		2	43.95	9.76	7.82	42.70	8.6
AMW-13-VD		2	71.82	9.77	7.46	70.29	0.0
OW-2-D1		2	33.95	9.94	7.97	33.60	0.0
MW-26-VD		2	68.25	9.99	8.44	68.57	0.0
MW-29-D2		2	39.82	5.38	3.46	37.62	0.0
MW-29-VD		2	67.22	5.27	2.95	59.60	0.0
MW-30-D1		2	30	8.74	6.88	29.83	0.0
MW-30-D2		2	46.63	8.72	6.87	40.17	0.0
MW-30-VD		4	83.40	8.70	6.11	82.45	0.0
MW-31-D1R		2	30.04	8.39	6.55	29.95	0.0
MW-31-D2R		2	45.15	8.35	6.44	45.88	0.0
MW-32D		2	37.45	8.85	6.84 6.84	35.91	0.0
MW-27-D2		2	46.97	9.09	7.02	46.94	0.0
MW-28-D2R		2	46.69	8.40	6.36	46.84	0.0
MW-24-D2		2	42.20	10.00	8.02	41.60	0.0
MW-24-VDR		2	73.98	9.72	7.41	HydroShear Port.	0.0
AMW-15-VD		2	72.15	9.82	7.50	70.95	0.0
AMW-7R		2	14.42	9.95			
AMW-14-VD		2	75.61	9.25	7.19	75.63	0.0
AMW-14-D2		2	43.17	9.37	7.35	42.62	0.0
MW-28-D1		2	30.38	8.25	6.42	30.21	0.0
MW-26-D2		2	43.76	9.40	7.41	43.42	0.0
MW-23-D2R		2	44.63	10.52	8.40	45.98	0.0
AMW-15-D2		2	36.2	9.71	6.36	40.84	0.0
AMW-15-D3		2	48.6	9.81	7.76	47.91	0.0
MW-23-D1R		2	25.78	9.84	7.37	26.32	0.0
AMW-15-D1		2	36.2	9.74	7.73	35.70	0.0
MW-27-D1R		2	32.99	9.01	6.88	29.62	0.0
MW-26-D1		2	28.8	9.95	7.99	29.67	0.0
MW-29-D1		2	23.45	5.21	3.31	21.72	0.0
MW-18R		2	10.17	7.98	4.73	9.86	0.0
AMW-14-D1		2	33.15	9.38	7.33	33.10	0.0
MW-24-D1R		2	32.23	9.82	7.42	31.39	0.0

Notes:

*Top of casing elevations were surveyed by Borbas Surveying & Mapping, LLC, September 18, 2017 and re-drilled wells on June 1, 2018.

in - inches

ft btoc - Feet below top of casing

ft amsl - Feet above mean sea level

NG - Not gauged

Highlighted **RED Bolded** wells need to be gauged in that order. Highlighted wells should be gauged before red wells and after regular wells, but in no specific order. Regular wells can be gauged in any order so long as they are before highlighted wells

First, any order

second, any order **Last, in specified order**

DTB after Sampling

Project Name: Chevron Oceanside

Field Personnel: ST + AB

Date: 2/1/22 + 2/2/22

Weather:

Well ID	Time	pH	Temp (deg C)	Cond (Ms/cm3)	DO (mg/L)	ORP (mV)	Notes
MW-24-REL	0005	8.64	10.86	6.756	1.44	-308.7	DATE
MW-24-D2	0025	8.22	11.13	8.963	1.40	-290.6	02/02/22 DUP
MW-24-VDR							02/02/22
MW-28-D1	1900	9.14	11.31	0.90	10.73	-4.8	02/02/22
MW-28-D2R	1905	6.84	13.18	18.28	3.16	-142.9	02/02/22
MW-28-D2							no hydrasleeve deployed, missing well cap + needs collar + tether
MW-27-D1R	2250	7.31	14.04	11.52	1.63	-328.6	2/2/22 46.94
MW-27-D2	2230	6.97	12.08	11.36	1.25	-235.0	2/2/22
MW-26-D1	2045	7.52	11.12	7.472	1.30	-298.6	02/02/22
MW-23-D1R	0100	7.87	10.93	4.124	0.68	-168.8	2/2/22
MW-23-D2R	0100	7.77	12.11	7.475	4.26	-219.6	02/02/22
Amw-7R							Cannot Sample, well bolts bent + cant open
Amw-14-VD	2200	7.54	13.48	30.44	2.24	-215.5	2/2/22
Amw-14-D2	2130	7.24	12.21	11.63	0.34	-337.5	02/02/22
Amw-14-D1	2135	7.77	12.52	6.779	6.65	-308.8	2/2/22
Amw-15-D2	2345	7.76	13.22	7.531	3.09	-276.6	02/01/22
Amw-15-D3	2330	12.95	13.34	3.742	0.62	-303.6	2/1/22
Amw-15-D1	2300	7.53	14.26	5.779	5.01	-173.9	2/1/22
Amw-15-VD	2305	8.00	12.85	16.67	4.99	24.4	02/01/22
MW-18R	1945						02/02/22 - hydrasleeve only 1/4 filled, water column ~4 ft VOCs + NO2/NO3

2/3/22 0015 -FB

Attachment 2

Laboratory Analytical Report

Arcadis - Chevron - NY

Sample Delivery Group: L1457681
Samples Received: 02/03/2022
Project Number: 30062947.19.21
Description: POD 4 - Oceanside 6518040
Site: 6518040
Report To: Ryan Merrell
27-01 Queens Plaza North
Suite 800
New York City, NY 11101

Entire Report Reviewed By:



Chris McCord
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.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-23-D1R-W-220202 L1457681-07	24
AMW-15-D1-W-220201 L1457681-08	27
MW-24-D1R-W-220202 L1457681-09	30
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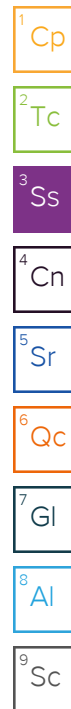
¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

MW-24-D2-W-220202 L1457681-02 GW

Collected by Shannon Torhan Collected date/time 02/02/22 00:25 Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:17	02/09/22 01:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 02:39	02/06/22 02:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:02	02/03/22 18:02	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	5	02/18/22 14:19	02/18/22 14:19	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 02:39	02/06/22 02:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:06	02/03/22 21:06	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 00:35	02/04/22 00:35	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	5	02/04/22 00:22	02/04/22 00:22	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	5	02/05/22 11:54	02/05/22 11:54	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:17	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:40	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:16	02/05/22 11:16	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812947	1	02/04/22 07:56	02/04/22 07:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1814383	10	02/08/22 12:53	02/08/22 12:53	MGF	Mt. Juliet, TN



AMW-15-VD-W-220201 L1457681-03 GW

Collected by Shannon Torhan Collected date/time 02/01/22 23:05 Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:20	02/09/22 01:20	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 02:43	02/06/22 02:43	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	10	02/03/22 18:04	02/03/22 18:04	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	1	02/18/22 14:21	02/18/22 14:21	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 02:43	02/06/22 02:43	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:07	02/03/22 21:07	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 01:14	02/04/22 01:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	500	02/04/22 01:26	02/04/22 01:26	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 12:44	02/05/22 12:44	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:20	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	10	02/08/22 04:22	02/09/22 11:42	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:18	02/05/22 11:18	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812947	1	02/04/22 08:17	02/04/22 08:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1814383	1	02/08/22 12:10	02/08/22 12:10	MGF	Mt. Juliet, TN

MW-23-D2R-W-220202 L1457681-04 GW

Collected by Shannon Torhan Collected date/time 02/02/22 01:00 Received date/time 02/03/22 14:20

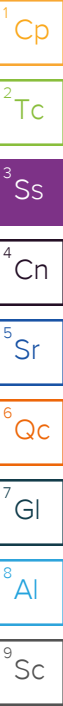
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/25/22 14:34	02/25/22 14:34	TWF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 02:47	02/06/22 02:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1823754	1	02/25/22 14:34	02/25/22 14:34	TWF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:26	02/18/22 14:26	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 02:47	02/06/22 02:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	128	02/03/22 21:08	02/03/22 21:08	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 01:39	02/04/22 01:39	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 01:52	02/04/22 01:52	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 13:20	02/05/22 13:20	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:23	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:45	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:20	02/05/22 11:20	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812947	1	02/04/22 06:55	02/04/22 06:55	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

AMW-15-D2-W-220201 L1457681-05 GW

Collected by Shannon Torhan
Collected date/time 02/01/22 23:45
Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:31	02/09/22 01:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 02:50	02/06/22 02:50	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:05	02/03/22 18:05	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:48	02/18/22 14:48	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 02:50	02/06/22 02:50	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	3200	02/03/22 21:09	02/03/22 21:09	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 02:05	02/04/22 02:05	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 02:18	02/04/22 02:18	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 13:38	02/05/22 13:38	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:31	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:48	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:28	02/05/22 11:28	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812947	1	02/04/22 07:15	02/04/22 07:15	JHH	Mt. Juliet, TN



AMW-15-D3-W-220201 L1457681-06 GW

Collected by Shannon Torhan
Collected date/time 02/01/22 23:30
Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:34	02/09/22 01:34	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 02:54	02/06/22 02:54	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:06	02/03/22 18:06	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:28	02/18/22 14:28	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 02:54	02/06/22 02:54	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:11	02/03/22 21:11	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 02:31	02/04/22 02:31	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 02:44	02/04/22 02:44	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 13:56	02/05/22 13:56	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:34	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:51	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:54	02/05/22 11:54	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812947	1	02/04/22 07:36	02/04/22 07:36	JHH	Mt. Juliet, TN

MW-23-D1R-W-220202 L1457681-07 GW

Collected by Shannon Torhan
Collected date/time 02/02/22 01:00
Received date/time 02/03/22 14:20

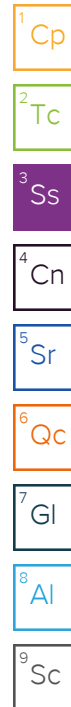
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:37	02/09/22 01:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:00	02/06/22 03:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:07	02/03/22 18:07	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:30	02/18/22 14:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:00	02/06/22 03:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:11	02/03/22 21:11	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 03:09	02/04/22 03:09	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	5	02/04/22 02:57	02/04/22 02:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 14:16	02/05/22 14:16	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:37	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:54	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 11:58	02/05/22 11:58	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 06:43	02/04/22 06:43	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

AMW-15-D1-W-220201 L1457681-08 GW

Collected by Shannon Torhan
Collected date/time 02/01/22 23:00
Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:39	02/09/22 01:39	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:11	02/06/22 03:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:08	02/03/22 18:08	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:31	02/18/22 14:31	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:11	02/06/22 03:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:12	02/03/22 21:12	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 03:48	02/04/22 03:48	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 04:01	02/04/22 04:01	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	5	02/05/22 14:38	02/05/22 14:38	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:39	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 11:57	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 12:03	02/05/22 12:03	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 07:04	02/04/22 07:04	ACG	Mt. Juliet, TN



MW-24-D1R-W-220202 L1457681-09 GW

Collected by Shannon Torhan
Collected date/time 02/02/22 00:05
Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:42	02/09/22 01:42	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:15	02/06/22 03:15	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:08	02/03/22 18:08	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:32	02/18/22 14:32	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:15	02/06/22 03:15	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:12	02/03/22 21:12	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 04:14	02/04/22 04:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 04:27	02/04/22 04:27	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	5	02/05/22 14:55	02/05/22 14:55	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:42	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 12:00	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 12:12	02/05/22 12:12	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 07:26	02/04/22 07:26	ACG	Mt. Juliet, TN

BD-W-220202 L1457681-10 GW

Collected by Shannon Torhan
Collected date/time 02/02/22 00:00
Received date/time 02/03/22 14:20

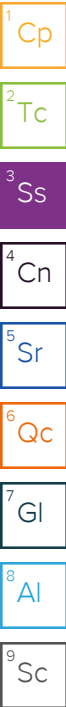
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:45	02/09/22 01:45	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:19	02/06/22 03:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	10	02/03/22 18:10	02/03/22 18:10	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	10	02/18/22 14:33	02/18/22 14:33	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:19	02/06/22 03:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:14	02/03/22 21:14	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	10	02/04/22 04:40	02/04/22 04:40	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	100	02/04/22 04:52	02/04/22 04:52	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	5	02/05/22 15:12	02/05/22 15:12	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:45	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	5	02/08/22 04:22	02/09/22 12:02	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 12:15	02/05/22 12:15	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 07:48	02/04/22 07:48	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

FB-W-220202 L1457681-11 GW

Collected by Shannon Torhan Collected date/time 02/02/22 01:30 Received date/time 02/03/22 14:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813001	1	02/09/22 01:48	02/09/22 01:48	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:23	02/06/22 03:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1812855	1	02/03/22 18:11	02/03/22 18:11	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1817235	1	02/18/22 14:35	02/18/22 14:35	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:23	02/06/22 03:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1812856	1.28	02/03/22 21:14	02/03/22 21:14	SMW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1812905	1	02/04/22 05:05	02/04/22 05:05	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813279	1	02/05/22 15:54	02/05/22 15:54	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813001	1	02/08/22 04:22	02/09/22 01:48	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1812867	1	02/05/22 12:22	02/05/22 12:22	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 02:13	02/04/22 02:13	ACG	Mt. Juliet, TN



TB-W-220202 L1457681-12 GW

Collected by Shannon Torhan Collected date/time 02/02/22 00:00 Received date/time 02/03/22 14:20

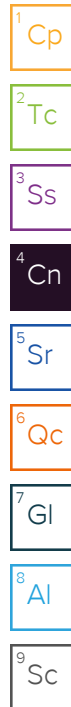
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1812954	1	02/04/22 01:29	02/04/22 01:29	ACG	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Chris McCord
Project Manager



Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1812855	3500Fe B-2011	L1457681-02, 03, 05, 06, 07, 08, 09, 10, 11
WG1813546	4500CO2 D-2011	L1457681-02, 03, 04, 05, 06, 07, 08, 09, 10, 11
WG1823754	3500Fe B-2011	L1457681-04

Wet Chemistry by Method 3500Fe B-2011

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1823754	(MSD) R3763927-5, L1457681-04	Ferrous Iron

Wet Chemistry by Method 353.2

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1817235	(MS) R3761517-5	Nitrate-Nitrite

Wet Chemistry by Method 4500S2 D-2011

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1812856	(LCS) R3756771-2, L1457681-02, 03, 04, 05, 06, 07, 08, 09, 10, 11	Sulfide

Wet Chemistry by Method 9060A

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1813279	TOC (Total Organic Carbon)	L1457681-11

CASE NARRATIVE

Metals (ICP) by Method 6010C

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1813001	Sodium	L1457681-11

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

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1812954	L1457681-07	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene
WG1812954	L1457681-08	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene
WG1812954	L1457681-09	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene
WG1812954	L1457681-10	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene
WG1812954	L1457681-11	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene
WG1812954	L1457681-12	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene

The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

Batch	Lab Sample ID	Analytes
WG1812947	L1457681-06	2-Butanone (MEK)



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	02/09/2022 01:17	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	740000		8450	20000	1	02/06/2022 02:39	WG1813546

Sample Narrative:

L1457681-02 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	978	T8	15.0	50.0	1	02/03/2022 18:02	WG1812855

Sample Narrative:

L1457681-02 WG1812855: Results confirmed with a second analysis.

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	02/18/2022 14:19	WG1817235

Sample Narrative:

L1457681-02 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	22800	T8	20000		1	02/06/2022 02:39	WG1813546

Sample Narrative:

L1457681-02 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U	J4	32.0	64.0	1.28	02/03/2022 21:06	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2720000		37900	100000	100	02/04/2022 00:35	WG1812905
Sulfate	235000		2970	25000	5	02/04/2022 00:22	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	36000		510	5000	5	02/05/2022 11:54	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	355		18.0	100	1	02/09/2022 01:17	WG1813001
Manganese	60.2		0.934	10.0	1	02/09/2022 01:17	WG1813001
Sodium	1680000		2520	15000	5	02/09/2022 11:40	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	350		2.91	10.0	1	02/05/2022 11:16	WG1812867
Ethane	6.08	U	4.07	13.0	1	02/05/2022 11:16	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:16	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 07:56	WG1812947
Benzene	0.259	U	0.0941	1.00	1	02/04/2022 07:56	WG1812947
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:56	WG1812947
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:56	WG1812947
Bromoform	U		0.129	1.00	1	02/04/2022 07:56	WG1812947
Bromomethane	U		0.605	5.00	1	02/04/2022 07:56	WG1812947
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 07:56	WG1812947
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:56	WG1812947
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:56	WG1812947
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:56	WG1812947
Chloroethane	U		0.192	5.00	1	02/04/2022 07:56	WG1812947
Chloroform	U		0.111	5.00	1	02/04/2022 07:56	WG1812947
Chloromethane	U		0.960	2.50	1	02/04/2022 07:56	WG1812947
Cyclohexane	U		0.188	1.00	1	02/04/2022 07:56	WG1812947
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:56	WG1812947
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:56	WG1812947
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:56	WG1812947
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:56	WG1812947
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:56	WG1812947
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:56	WG1812947
1,1-Dichloroethane	0.354	U	0.100	1.00	1	02/04/2022 07:56	WG1812947
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:56	WG1812947
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:56	WG1812947
cis-1,2-Dichloroethene	0.358	U	0.126	1.00	1	02/04/2022 07:56	WG1812947
trans-1,2-Dichloroethene	0.498	U	0.149	1.00	1	02/04/2022 07:56	WG1812947
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:56	WG1812947
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:56	WG1812947
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:56	WG1812947
Ethylbenzene	U		0.137	1.00	1	02/04/2022 07:56	WG1812947
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:56	WG1812947
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 07:56	WG1812947
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 07:56	WG1812947
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:56	WG1812947
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 07:56	WG1812947
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:56	WG1812947
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 07:56	WG1812947
Methyl tert-butyl ether	341		1.01	10.0	10	02/08/2022 12:53	WG1814383
Styrene	U		0.118	1.00	1	02/04/2022 07:56	WG1812947
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:56	WG1812947
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:56	WG1812947
Toluene	U		0.278	1.00	1	02/04/2022 07:56	WG1812947

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/04/2022 07:56	WG1812947
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/04/2022 07:56	WG1812947
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:56	WG1812947
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:56	WG1812947
Trichloroethene	U		0.190	1.00	1	02/04/2022 07:56	WG1812947
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:56	WG1812947
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:56	WG1812947
Vinyl chloride	U		0.234	1.00	1	02/04/2022 07:56	WG1812947
Xylenes, Total	U		0.174	3.00	1	02/04/2022 07:56	WG1812947
(S) Toluene-d8	102			80.0-120		02/04/2022 07:56	WG1812947
(S) Toluene-d8	93.0			80.0-120		02/08/2022 12:53	WG1814383
(S) 4-Bromofluorobenzene	97.8			77.0-126		02/04/2022 07:56	WG1812947
(S) 4-Bromofluorobenzene	100			77.0-126		02/08/2022 12:53	WG1814383
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/04/2022 07:56	WG1812947
(S) 1,2-Dichloroethane-d4	82.6			70.0-130		02/08/2022 12:53	WG1814383

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1150		18.0	100	1	02/09/2022 01:20	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	598000		8450	20000	1	02/06/2022 02:43	WG1813546

Sample Narrative:

L1457681-03 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	5840	T8	150	500	10	02/03/2022 18:04	WG1812855

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	02/18/2022 14:21	WG1817235

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	27600	T8	20000	1	02/06/2022 02:43	WG1813546

Sample Narrative:

L1457681-03 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U	J4	32.0	64.0	1.28	02/03/2022 21:07	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	16800000		190000	500000	500	02/04/2022 01:26	WG1812905
Sulfate	1940000		59400	500000	100	02/04/2022 01:14	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6400		102	1000	1	02/05/2022 12:44	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	6990		18.0	100	1	02/09/2022 01:20	WG1813001
Manganese	264		0.934	10.0	1	02/09/2022 01:20	WG1813001
Sodium	8650000		5040	30000	10	02/09/2022 11:42	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	17.1		2.91	10.0	1	02/05/2022 11:18	WG1812867
Ethane	U		4.07	13.0	1	02/05/2022 11:18	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:18	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 08:17	WG1812947
Benzene	U		0.0941	1.00	1	02/04/2022 08:17	WG1812947
Bromochloromethane	U		0.128	1.00	1	02/04/2022 08:17	WG1812947
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 08:17	WG1812947
Bromoform	U		0.129	1.00	1	02/04/2022 08:17	WG1812947
Bromomethane	U		0.605	5.00	1	02/04/2022 08:17	WG1812947
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 08:17	WG1812947
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 08:17	WG1812947
Chlorobenzene	U		0.116	1.00	1	02/04/2022 08:17	WG1812947
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 08:17	WG1812947
Chloroethane	U		0.192	5.00	1	02/04/2022 08:17	WG1812947
Chloroform	U		0.111	5.00	1	02/04/2022 08:17	WG1812947
Chloromethane	U		0.960	2.50	1	02/04/2022 08:17	WG1812947
Cyclohexane	U		0.188	1.00	1	02/04/2022 08:17	WG1812947
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 08:17	WG1812947
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 08:17	WG1812947
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 08:17	WG1812947
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 08:17	WG1812947
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 08:17	WG1812947
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 08:17	WG1812947
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 08:17	WG1812947
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 08:17	WG1812947
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 08:17	WG1812947
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/04/2022 08:17	WG1812947
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/04/2022 08:17	WG1812947
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 08:17	WG1812947
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 08:17	WG1812947
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 08:17	WG1812947
Ethylbenzene	U		0.137	1.00	1	02/04/2022 08:17	WG1812947
2-Hexanone	U		0.787	10.0	1	02/04/2022 08:17	WG1812947
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 08:17	WG1812947
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 08:17	WG1812947
Methyl Acetate	U		1.29	20.0	1	02/04/2022 08:17	WG1812947
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 08:17	WG1812947
Methylene Chloride	U		0.430	5.00	1	02/04/2022 08:17	WG1812947
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 08:17	WG1812947
Methyl tert-butyl ether	0.380	U	0.101	1.00	1	02/08/2022 12:10	WG1814383
Styrene	U		0.118	1.00	1	02/04/2022 08:17	WG1812947
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 08:17	WG1812947
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 08:17	WG1812947
Toluene	U		0.278	1.00	1	02/04/2022 08:17	WG1812947
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/04/2022 08:17	WG1812947
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/04/2022 08:17	WG1812947
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 08:17	WG1812947
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 08:17	WG1812947
Trichloroethene	U		0.190	1.00	1	02/04/2022 08:17	WG1812947
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 08:17	WG1812947
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 08:17	WG1812947
Vinyl chloride	U		0.234	1.00	1	02/04/2022 08:17	WG1812947



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	02/04/2022 08:17	WG1812947
(S) Toluene-d8	102			80.0-120		02/04/2022 08:17	WG1812947
(S) Toluene-d8	94.6			80.0-120		02/08/2022 12:10	WG1814383
(S) 4-Bromofluorobenzene	96.3			77.0-126		02/04/2022 08:17	WG1812947
(S) 4-Bromofluorobenzene	105			77.0-126		02/08/2022 12:10	WG1814383
(S) 1,2-Dichloroethane-d4	107			70.0-130		02/04/2022 08:17	WG1812947
(S) 1,2-Dichloroethane-d4	84.9			70.0-130		02/08/2022 12:10	WG1814383

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	627		15.0	50.0	1	02/25/2022 14:34	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	529000		8450	20000	1	02/06/2022 02:47	WG1813546

Sample Narrative:

L1457681-04 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	326	J5 T8	15.0	50.0	1	02/25/2022 14:34	WG1823754

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:26	WG1817235

Sample Narrative:

L1457681-04 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	92600	T8	20000	1	02/06/2022 02:47	WG1813546

Sample Narrative:

L1457681-04 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	19000	J4	3200	6400	128	02/03/2022 21:08	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3630000		37900	100000	100	02/04/2022 01:52	WG1812905
Sulfate	232000		5940	50000	10	02/04/2022 01:39	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8750		102	1000	1	02/05/2022 13:20	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	953		18.0	100	1	02/09/2022 01:23	WG1813001
Manganese	1400		0.934	10.0	1	02/09/2022 01:23	WG1813001

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1620000		2520	15000	5	02/09/2022 11:45	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	389		2.91	10.0	1	02/05/2022 11:20	WG1812867
Ethane	U		4.07	13.0	1	02/05/2022 11:20	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:20	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 06:55	WG1812947
Benzene	0.124	U	0.0941	1.00	1	02/04/2022 06:55	WG1812947
Bromochloromethane	U		0.128	1.00	1	02/04/2022 06:55	WG1812947
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 06:55	WG1812947
Bromoform	U		0.129	1.00	1	02/04/2022 06:55	WG1812947
Bromomethane	U		0.605	5.00	1	02/04/2022 06:55	WG1812947
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 06:55	WG1812947
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 06:55	WG1812947
Chlorobenzene	U		0.116	1.00	1	02/04/2022 06:55	WG1812947
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 06:55	WG1812947
Chloroethane	U		0.192	5.00	1	02/04/2022 06:55	WG1812947
Chloroform	U		0.111	5.00	1	02/04/2022 06:55	WG1812947
Chloromethane	U		0.960	2.50	1	02/04/2022 06:55	WG1812947
Cyclohexane	U		0.188	1.00	1	02/04/2022 06:55	WG1812947
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 06:55	WG1812947
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 06:55	WG1812947
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 06:55	WG1812947
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 06:55	WG1812947
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 06:55	WG1812947
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 06:55	WG1812947
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 06:55	WG1812947
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 06:55	WG1812947
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 06:55	WG1812947
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/04/2022 06:55	WG1812947
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/04/2022 06:55	WG1812947
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 06:55	WG1812947
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 06:55	WG1812947
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 06:55	WG1812947
Ethylbenzene	U		0.137	1.00	1	02/04/2022 06:55	WG1812947
2-Hexanone	U		0.787	10.0	1	02/04/2022 06:55	WG1812947
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 06:55	WG1812947
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 06:55	WG1812947
Methyl Acetate	U		1.29	20.0	1	02/04/2022 06:55	WG1812947
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 06:55	WG1812947
Methylene Chloride	U		0.430	5.00	1	02/04/2022 06:55	WG1812947
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 06:55	WG1812947
Methyl tert-butyl ether	40.3		0.101	1.00	1	02/04/2022 06:55	WG1812947
Styrene	U		0.118	1.00	1	02/04/2022 06:55	WG1812947
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 06:55	WG1812947
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 06:55	WG1812947
Toluene	U		0.278	1.00	1	02/04/2022 06:55	WG1812947
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/04/2022 06:55	WG1812947
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/04/2022 06:55	WG1812947

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 06:55	WG1812947
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 06:55	WG1812947
Trichloroethene	U		0.190	1.00	1	02/04/2022 06:55	WG1812947
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 06:55	WG1812947
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 06:55	WG1812947
Vinyl chloride	U		0.234	1.00	1	02/04/2022 06:55	WG1812947
Xylenes, Total	U		0.174	3.00	1	02/04/2022 06:55	WG1812947
(S) Toluene-d8	103			80.0-120		02/04/2022 06:55	WG1812947
(S) 4-Bromofluorobenzene	96.0			77.0-126		02/04/2022 06:55	WG1812947
(S) 1,2-Dichloroethane-d4	108			70.0-130		02/04/2022 06:55	WG1812947

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferric Iron	974		15.0	50.0	1	02/09/2022 01:31	WG1813001

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	616000		8450	20000	1	02/06/2022 02:50	WG1813546

Sample Narrative:

L1457681-05 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferrous Iron	479	T8	15.0	50.0	1	02/03/2022 18:05	WG1812855

Wet Chemistry by Method 353.2

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:48	WG1817235

Sample Narrative:

L1457681-05 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l			
Free Carbon Dioxide	70900	T8	20000	1	02/06/2022 02:50	WG1813546

Sample Narrative:

L1457681-05 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Sulfide	1070000	J4	80000	160000	3200	02/03/2022 21:09	WG1812856

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	3510000		37900	100000	100	02/04/2022 02:18	WG1812905
Sulfate	201000		5940	50000	10	02/04/2022 02:05	WG1812905

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	9600		102	1000	1	02/05/2022 13:38	WG1813279

Metals (ICP) by Method 6010C

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	1450		18.0	100	1	02/09/2022 01:31	WG1813001
Manganese	102		0.934	10.0	1	02/09/2022 01:31	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1880000		2520	15000	5	02/09/2022 11:48	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	118		2.91	10.0	1	02/05/2022 11:28	WG1812867
Ethane	U		4.07	13.0	1	02/05/2022 11:28	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:28	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 07:15	WG1812947
Benzene	0.261	U	0.0941	1.00	1	02/04/2022 07:15	WG1812947
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:15	WG1812947
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:15	WG1812947
Bromoform	U		0.129	1.00	1	02/04/2022 07:15	WG1812947
Bromomethane	U		0.605	5.00	1	02/04/2022 07:15	WG1812947
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 07:15	WG1812947
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:15	WG1812947
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:15	WG1812947
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:15	WG1812947
Chloroethane	U		0.192	5.00	1	02/04/2022 07:15	WG1812947
Chloroform	U		0.111	5.00	1	02/04/2022 07:15	WG1812947
Chloromethane	U		0.960	2.50	1	02/04/2022 07:15	WG1812947
Cyclohexane	U		0.188	1.00	1	02/04/2022 07:15	WG1812947
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:15	WG1812947
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:15	WG1812947
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:15	WG1812947
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:15	WG1812947
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:15	WG1812947
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:15	WG1812947
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 07:15	WG1812947
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:15	WG1812947
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:15	WG1812947
cis-1,2-Dichloroethene	0.194	U	0.126	1.00	1	02/04/2022 07:15	WG1812947
trans-1,2-Dichloroethene	0.189	U	0.149	1.00	1	02/04/2022 07:15	WG1812947
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:15	WG1812947
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:15	WG1812947
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:15	WG1812947
Ethylbenzene	U		0.137	1.00	1	02/04/2022 07:15	WG1812947
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:15	WG1812947
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 07:15	WG1812947
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 07:15	WG1812947
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:15	WG1812947
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 07:15	WG1812947
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:15	WG1812947
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 07:15	WG1812947
Methyl tert-butyl ether	32.6		0.101	1.00	1	02/04/2022 07:15	WG1812947
Styrene	U		0.118	1.00	1	02/04/2022 07:15	WG1812947
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:15	WG1812947
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:15	WG1812947
Toluene	U		0.278	1.00	1	02/04/2022 07:15	WG1812947
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/04/2022 07:15	WG1812947
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/04/2022 07:15	WG1812947

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:15	WG1812947
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:15	WG1812947
Trichloroethene	U		0.190	1.00	1	02/04/2022 07:15	WG1812947
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:15	WG1812947
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:15	WG1812947
Vinyl chloride	U		0.234	1.00	1	02/04/2022 07:15	WG1812947
Xylenes, Total	U		0.174	3.00	1	02/04/2022 07:15	WG1812947
(S) Toluene-d8	104			80.0-120		02/04/2022 07:15	WG1812947
(S) 4-Bromofluorobenzene	95.7			77.0-126		02/04/2022 07:15	WG1812947
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/04/2022 07:15	WG1812947

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	374		15.0	50.0	1	02/09/2022 01:34	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	236000		8450	20000	1	02/06/2022 02:54	WG1813546

Sample Narrative:

L1457681-06 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	66.0	T8	15.0	50.0	1	02/03/2022 18:06	WG1812855

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	628	J	500	1000	10	02/18/2022 14:28	WG1817235

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000		1	02/06/2022 02:54	WG1813546

Sample Narrative:

L1457681-06 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	970	J4	32.0	64.0	1.28	02/03/2022 21:11	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2480000		37900	100000	100	02/04/2022 02:44	WG1812905
Sulfate	182000		5940	50000	10	02/04/2022 02:31	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	9330		102	1000	1	02/05/2022 13:56	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	440		18.0	100	1	02/09/2022 01:34	WG1813001
Manganese	631		0.934	10.0	1	02/09/2022 01:34	WG1813001
Sodium	3100000		2520	15000	5	02/09/2022 11:51	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1340		2.91	10.0	1	02/05/2022 11:54	WG1812867
Ethane	9.91	U	4.07	13.0	1	02/05/2022 11:54	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:54	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	89.0		11.3	50.0	1	02/04/2022 07:36	WG1812947
Benzene	7.72		0.0941	1.00	1	02/04/2022 07:36	WG1812947
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:36	WG1812947
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:36	WG1812947
Bromoform	U		0.129	1.00	1	02/04/2022 07:36	WG1812947
Bromomethane	U		0.605	5.00	1	02/04/2022 07:36	WG1812947
Carbon disulfide	1.89		0.0962	1.00	1	02/04/2022 07:36	WG1812947
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:36	WG1812947
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:36	WG1812947
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:36	WG1812947
Chloroethane	U		0.192	5.00	1	02/04/2022 07:36	WG1812947
Chloroform	U		0.111	5.00	1	02/04/2022 07:36	WG1812947
Chloromethane	U		0.960	2.50	1	02/04/2022 07:36	WG1812947
Cyclohexane	0.705	U	0.188	1.00	1	02/04/2022 07:36	WG1812947
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:36	WG1812947
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:36	WG1812947
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:36	WG1812947
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:36	WG1812947
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:36	WG1812947
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:36	WG1812947
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 07:36	WG1812947
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:36	WG1812947
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:36	WG1812947
cis-1,2-Dichloroethene	8.74		0.126	1.00	1	02/04/2022 07:36	WG1812947
trans-1,2-Dichloroethene	0.366	U	0.149	1.00	1	02/04/2022 07:36	WG1812947
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:36	WG1812947
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:36	WG1812947
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:36	WG1812947
Ethylbenzene	1.02		0.137	1.00	1	02/04/2022 07:36	WG1812947
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:36	WG1812947
Isopropylbenzene	0.332	U	0.105	1.00	1	02/04/2022 07:36	WG1812947
2-Butanone (MEK)	18.6	C5	1.19	10.0	1	02/04/2022 07:36	WG1812947
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:36	WG1812947
Methyl Cyclohexane	0.905	U	0.660	1.00	1	02/04/2022 07:36	WG1812947
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:36	WG1812947
4-Methyl-2-pentanone (MIBK)	0.808	U	0.478	10.0	1	02/04/2022 07:36	WG1812947
Methyl tert-butyl ether	68.8		0.101	1.00	1	02/04/2022 07:36	WG1812947
Styrene	U		0.118	1.00	1	02/04/2022 07:36	WG1812947
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:36	WG1812947
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:36	WG1812947
Toluene	1.38		0.278	1.00	1	02/04/2022 07:36	WG1812947
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/04/2022 07:36	WG1812947
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/04/2022 07:36	WG1812947
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:36	WG1812947
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:36	WG1812947
Trichloroethene	29.9		0.190	1.00	1	02/04/2022 07:36	WG1812947
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:36	WG1812947
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:36	WG1812947
Vinyl chloride	3.72		0.234	1.00	1	02/04/2022 07:36	WG1812947



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	2.43	J	0.174	3.00	1	02/04/2022 07:36	WG1812947
(S) Toluene-d8	100			80.0-120		02/04/2022 07:36	WG1812947
(S) 4-Bromofluorobenzene	99.4			77.0-126		02/04/2022 07:36	WG1812947
(S) 1,2-Dichloroethane-d4	110			70.0-130		02/04/2022 07:36	WG1812947

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferric Iron	10200		15.0	50.0	1	02/09/2022 01:37	WG1813001

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	357000		8450	20000	1	02/06/2022 03:00	WG1813546

Sample Narrative:

L1457681-07 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferrous Iron	1180	T8	15.0	50.0	1	02/03/2022 18:07	WG1812855

Wet Chemistry by Method 353.2

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:30	WG1817235

Sample Narrative:

L1457681-07 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l			
Free Carbon Dioxide	48600	T8	20000	1	02/06/2022 03:00	WG1813546

Sample Narrative:

L1457681-07 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Sulfide	62.7	J J4	32.0	64.0	1.28	02/03/2022 21:11	WG1812856

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	1920000		37900	100000	100	02/04/2022 03:09	WG1812905
Sulfate	118000		2970	25000	5	02/04/2022 02:57	WG1812905

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	15200		102	1000	1	02/05/2022 14:16	WG1813279

Metals (ICP) by Method 6010C

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	11400		18.0	100	1	02/09/2022 01:37	WG1813001
Manganese	1090		0.934	10.0	1	02/09/2022 01:37	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1340000		2520	15000	5	02/09/2022 11:54	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	195		2.91	10.0	1	02/05/2022 11:58	WG1812867
Ethane	U		4.07	13.0	1	02/05/2022 11:58	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 11:58	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 06:43	WG1812954
Benzene	0.110	U	0.0941	1.00	1	02/04/2022 06:43	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 06:43	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 06:43	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 06:43	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 06:43	WG1812954
Carbon disulfide	0.202	U	0.0962	1.00	1	02/04/2022 06:43	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 06:43	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 06:43	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 06:43	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 06:43	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 06:43	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 06:43	WG1812954
Cyclohexane	U		0.188	1.00	1	02/04/2022 06:43	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 06:43	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 06:43	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 06:43	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 06:43	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 06:43	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 06:43	WG1812954
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 06:43	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 06:43	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 06:43	WG1812954
cis-1,2-Dichloroethene	0.388	U	0.126	1.00	1	02/04/2022 06:43	WG1812954
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/04/2022 06:43	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 06:43	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 06:43	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 06:43	WG1812954
Ethylbenzene	U		0.137	1.00	1	02/04/2022 06:43	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 06:43	WG1812954
Isopropylbenzene	0.179	U	0.105	1.00	1	02/04/2022 06:43	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 06:43	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 06:43	WG1812954
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 06:43	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 06:43	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 06:43	WG1812954
Methyl tert-butyl ether	48.2		0.101	1.00	1	02/04/2022 06:43	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 06:43	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 06:43	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 06:43	WG1812954
Toluene	U		0.278	1.00	1	02/04/2022 06:43	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 06:43	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 06:43	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 06:43	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 06:43	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 06:43	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 06:43	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 06:43	WG1812954
Vinyl chloride	U		0.234	1.00	1	02/04/2022 06:43	WG1812954
Xylenes, Total	U		0.174	3.00	1	02/04/2022 06:43	WG1812954
(S) Toluene-d8	104			80.0-120		02/04/2022 06:43	WG1812954
(S) 4-Bromofluorobenzene	94.3			77.0-126		02/04/2022 06:43	WG1812954
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/04/2022 06:43	WG1812954

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	767		15.0	50.0	1	02/09/2022 01:39	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	496000		8450	20000	1	02/06/2022 03:11	WG1813546

Sample Narrative:

L1457681-08 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	381	T8	15.0	50.0	1	02/03/2022 18:08	WG1812855

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:31	WG1817235

Sample Narrative:

L1457681-08 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	23900	T8	20000	1	02/06/2022 03:11	WG1813546

Sample Narrative:

L1457681-08 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	236	J4	32.0	64.0	1.28	02/03/2022 21:12	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2260000		37900	100000	100	02/04/2022 04:01	WG1812905
Sulfate	117000		5940	50000	10	02/04/2022 03:48	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	30300		510	5000	5	02/05/2022 14:38	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1150		18.0	100	1	02/09/2022 01:39	WG1813001
Manganese	26.7		0.934	10.0	1	02/09/2022 01:39	WG1813001

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1280000		2520	15000	5	02/09/2022 11:57	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1510		2.91	10.0	1	02/05/2022 12:03	WG1812867
Ethane	183		4.07	13.0	1	02/05/2022 12:03	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 12:03	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 07:04	WG1812954
Benzene	6.26		0.0941	1.00	1	02/04/2022 07:04	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:04	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:04	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 07:04	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 07:04	WG1812954
Carbon disulfide	0.394	U	0.0962	1.00	1	02/04/2022 07:04	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:04	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:04	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:04	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 07:04	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 07:04	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 07:04	WG1812954
Cyclohexane	1.10		0.188	1.00	1	02/04/2022 07:04	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:04	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:04	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:04	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:04	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:04	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:04	WG1812954
1,1-Dichloroethane	0.657	U	0.100	1.00	1	02/04/2022 07:04	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:04	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:04	WG1812954
cis-1,2-Dichloroethene	0.168	U	0.126	1.00	1	02/04/2022 07:04	WG1812954
trans-1,2-Dichloroethene	3.11		0.149	1.00	1	02/04/2022 07:04	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:04	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:04	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:04	WG1812954
Ethylbenzene	5.05		0.137	1.00	1	02/04/2022 07:04	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:04	WG1812954
Isopropylbenzene	0.614	U	0.105	1.00	1	02/04/2022 07:04	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 07:04	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:04	WG1812954
Methyl Cyclohexane	1.02		0.660	1.00	1	02/04/2022 07:04	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:04	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 07:04	WG1812954
Methyl tert-butyl ether	116		0.101	1.00	1	02/04/2022 07:04	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 07:04	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:04	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:04	WG1812954
Toluene	0.305	U	0.278	1.00	1	02/04/2022 07:04	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 07:04	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 07:04	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:04	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:04	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 07:04	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:04	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:04	WG1812954
Vinyl chloride	U		0.234	1.00	1	02/04/2022 07:04	WG1812954
Xylenes, Total	1.29	<u>J</u>	0.174	3.00	1	02/04/2022 07:04	WG1812954
(S) Toluene-d8	102			80.0-120		02/04/2022 07:04	WG1812954
(S) 4-Bromofluorobenzene	96.4			77.0-126		02/04/2022 07:04	WG1812954
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/04/2022 07:04	WG1812954

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	522		15.0	50.0	1	02/09/2022 01:42	WG1813001

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	298000		8450	20000	1	02/06/2022 03:15	WG1813546

Sample Narrative:

L1457681-09 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1750	T8	15.0	50.0	1	02/03/2022 18:08	WG1812855

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:32	WG1817235

Sample Narrative:

L1457681-09 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	58500	T8	20000	1	02/06/2022 03:15	WG1813546

Sample Narrative:

L1457681-09 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	33.3	J J4	32.0	64.0	1.28	02/03/2022 21:12	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2350000		37900	100000	100	02/04/2022 04:27	WG1812905
Sulfate	337000		5940	50000	10	02/04/2022 04:14	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	38000		510	5000	5	02/05/2022 14:55	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2270		18.0	100	1	02/09/2022 01:42	WG1813001
Manganese	333		0.934	10.0	1	02/09/2022 01:42	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1360000		2520	15000	5	02/09/2022 12:00	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	872		2.91	10.0	1	02/05/2022 12:12	WG1812867
Ethane	38.9		4.07	13.0	1	02/05/2022 12:12	WG1812867
Ethene	12.7	U	4.26	13.0	1	02/05/2022 12:12	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 07:26	WG1812954
Benzene	7.66		0.0941	1.00	1	02/04/2022 07:26	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:26	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:26	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 07:26	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 07:26	WG1812954
Carbon disulfide	1.39		0.0962	1.00	1	02/04/2022 07:26	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:26	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:26	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:26	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 07:26	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 07:26	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 07:26	WG1812954
Cyclohexane	U		0.188	1.00	1	02/04/2022 07:26	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:26	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:26	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:26	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:26	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:26	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:26	WG1812954
1,1-Dichloroethane	0.331	U	0.100	1.00	1	02/04/2022 07:26	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:26	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:26	WG1812954
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/04/2022 07:26	WG1812954
trans-1,2-Dichloroethene	8.30		0.149	1.00	1	02/04/2022 07:26	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:26	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:26	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:26	WG1812954
Ethylbenzene	4.91		0.137	1.00	1	02/04/2022 07:26	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:26	WG1812954
Isopropylbenzene	0.534	U	0.105	1.00	1	02/04/2022 07:26	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 07:26	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:26	WG1812954
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 07:26	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:26	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 07:26	WG1812954
Methyl tert-butyl ether	170		0.101	1.00	1	02/04/2022 07:26	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 07:26	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:26	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:26	WG1812954
Toluene	0.598	U	0.278	1.00	1	02/04/2022 07:26	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 07:26	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 07:26	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:26	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:26	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 07:26	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:26	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:26	WG1812954
Vinyl chloride	0.242	J	0.234	1.00	1	02/04/2022 07:26	WG1812954
Xylenes, Total	8.44		0.174	3.00	1	02/04/2022 07:26	WG1812954
(S) Toluene-d8	101			80.0-120		02/04/2022 07:26	WG1812954
(S) 4-Bromofluorobenzene	96.4			77.0-126		02/04/2022 07:26	WG1812954
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/04/2022 07:26	WG1812954

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferric Iron	998		18.0	100	1	02/09/2022 01:45	WG1813001

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	359000		8450	20000	1	02/06/2022 03:19	WG1813546

Sample Narrative:

L1457681-10 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferrous Iron	5500	T8	150	500	10	02/03/2022 18:10	WG1812855

Wet Chemistry by Method 353.2

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Nitrate-Nitrite	U		500	1000	10	02/18/2022 14:33	WG1817235

Sample Narrative:

L1457681-10 WG1817235: Dilution due to Sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l			
Free Carbon Dioxide	59300	T8	20000	1	02/06/2022 03:19	WG1813546

Sample Narrative:

L1457681-10 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Sulfide	80.6	J4	32.0	64.0	1.28	02/03/2022 21:14	WG1812856

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	2350000		37900	100000	100	02/04/2022 04:52	WG1812905
Sulfate	252000		5940	50000	10	02/04/2022 04:40	WG1812905

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	32100		510	5000	5	02/05/2022 15:12	WG1813279

Metals (ICP) by Method 6010C

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	6490		18.0	100	1	02/09/2022 01:45	WG1813001
Manganese	290		0.934	10.0	1	02/09/2022 01:45	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1390000		2520	15000	5	02/09/2022 12:02	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1030		2.91	10.0	1	02/05/2022 12:15	WG1812867
Ethane	56.8		4.07	13.0	1	02/05/2022 12:15	WG1812867
Ethene	23.0		4.26	13.0	1	02/05/2022 12:15	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 07:48	WG1812954
Benzene	8.31		0.0941	1.00	1	02/04/2022 07:48	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 07:48	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 07:48	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 07:48	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 07:48	WG1812954
Carbon disulfide	1.29		0.0962	1.00	1	02/04/2022 07:48	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 07:48	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 07:48	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 07:48	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 07:48	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 07:48	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 07:48	WG1812954
Cyclohexane	0.265	U	0.188	1.00	1	02/04/2022 07:48	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 07:48	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 07:48	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 07:48	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 07:48	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 07:48	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 07:48	WG1812954
1,1-Dichloroethane	0.363	U	0.100	1.00	1	02/04/2022 07:48	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 07:48	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 07:48	WG1812954
cis-1,2-Dichloroethene	0.131	U	0.126	1.00	1	02/04/2022 07:48	WG1812954
trans-1,2-Dichloroethene	8.83		0.149	1.00	1	02/04/2022 07:48	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 07:48	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 07:48	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 07:48	WG1812954
Ethylbenzene	5.75		0.137	1.00	1	02/04/2022 07:48	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 07:48	WG1812954
Isopropylbenzene	0.604	U	0.105	1.00	1	02/04/2022 07:48	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 07:48	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 07:48	WG1812954
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 07:48	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 07:48	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 07:48	WG1812954
Methyl tert-butyl ether	182		0.101	1.00	1	02/04/2022 07:48	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 07:48	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 07:48	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 07:48	WG1812954
Toluene	0.677	U	0.278	1.00	1	02/04/2022 07:48	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 07:48	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 07:48	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 07:48	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 07:48	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 07:48	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 07:48	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 07:48	WG1812954
Vinyl chloride	U		0.234	1.00	1	02/04/2022 07:48	WG1812954
Xylenes, Total	9.73		0.174	3.00	1	02/04/2022 07:48	WG1812954
(S) Toluene-d8	102			80.0-120		02/04/2022 07:48	WG1812954
(S) 4-Bromofluorobenzene	100			77.0-126		02/04/2022 07:48	WG1812954
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/04/2022 07:48	WG1812954

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	02/09/2022 01:48	WG1813001

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		8450	20000	1	02/06/2022 03:23	WG1813546

Sample Narrative:

L1457681-11 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	66.0	T8	15.0	50.0	1	02/03/2022 18:11	WG1812855

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	02/18/2022 14:35	WG1817235

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	02/06/2022 03:23	WG1813546

Sample Narrative:

L1457681-11 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U	J4	32.0	64.0	1.28	02/03/2022 21:14	WG1812856

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		379	1000	1	02/04/2022 05:05	WG1812905
Sulfate	U		594	5000	1	02/04/2022 05:05	WG1812905

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	409	B J	102	1000	1	02/05/2022 15:54	WG1813279

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	27.2	J	18.0	100	1	02/09/2022 01:48	WG1813001
Manganese	1.17	J	0.934	10.0	1	02/09/2022 01:48	WG1813001
Sodium	3420	B	504	3000	1	02/09/2022 01:48	WG1813001

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		2.91	10.0	1	02/05/2022 12:22	WG1812867
Ethane	U		4.07	13.0	1	02/05/2022 12:22	WG1812867
Ethene	U		4.26	13.0	1	02/05/2022 12:22	WG1812867

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 02:13	WG1812954
Benzene	U		0.0941	1.00	1	02/04/2022 02:13	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 02:13	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 02:13	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 02:13	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 02:13	WG1812954
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 02:13	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 02:13	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 02:13	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 02:13	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 02:13	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 02:13	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 02:13	WG1812954
Cyclohexane	U		0.188	1.00	1	02/04/2022 02:13	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 02:13	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 02:13	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 02:13	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 02:13	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 02:13	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 02:13	WG1812954
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 02:13	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 02:13	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 02:13	WG1812954
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/04/2022 02:13	WG1812954
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/04/2022 02:13	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 02:13	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 02:13	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 02:13	WG1812954
Ethylbenzene	U		0.137	1.00	1	02/04/2022 02:13	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 02:13	WG1812954
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 02:13	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 02:13	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 02:13	WG1812954
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 02:13	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 02:13	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 02:13	WG1812954
Methyl tert-butyl ether	U		0.101	1.00	1	02/04/2022 02:13	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 02:13	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 02:13	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 02:13	WG1812954
Toluene	U		0.278	1.00	1	02/04/2022 02:13	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 02:13	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 02:13	WG1812954
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 02:13	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 02:13	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 02:13	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 02:13	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 02:13	WG1812954
Vinyl chloride	U		0.234	1.00	1	02/04/2022 02:13	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	02/04/2022 02:13	WG1812954
(S) Toluene-d8	102			80.0-120		02/04/2022 02:13	WG1812954
(S) 4-Bromofluorobenzene	97.9			77.0-126		02/04/2022 02:13	WG1812954
(S) 1,2-Dichloroethane-d4	100			70.0-130		02/04/2022 02:13	WG1812954

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/04/2022 01:29	WG1812954
Benzene	U		0.0941	1.00	1	02/04/2022 01:29	WG1812954
Bromochloromethane	U		0.128	1.00	1	02/04/2022 01:29	WG1812954
Bromodichloromethane	U		0.136	1.00	1	02/04/2022 01:29	WG1812954
Bromoform	U		0.129	1.00	1	02/04/2022 01:29	WG1812954
Bromomethane	U		0.605	5.00	1	02/04/2022 01:29	WG1812954
Carbon disulfide	U		0.0962	1.00	1	02/04/2022 01:29	WG1812954
Carbon tetrachloride	U		0.128	1.00	1	02/04/2022 01:29	WG1812954
Chlorobenzene	U		0.116	1.00	1	02/04/2022 01:29	WG1812954
Chlorodibromomethane	U		0.140	1.00	1	02/04/2022 01:29	WG1812954
Chloroethane	U		0.192	5.00	1	02/04/2022 01:29	WG1812954
Chloroform	U		0.111	5.00	1	02/04/2022 01:29	WG1812954
Chloromethane	U		0.960	2.50	1	02/04/2022 01:29	WG1812954
Cyclohexane	U		0.188	1.00	1	02/04/2022 01:29	WG1812954
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/04/2022 01:29	WG1812954
1,2-Dibromoethane	U		0.126	1.00	1	02/04/2022 01:29	WG1812954
1,2-Dichlorobenzene	U		0.107	1.00	1	02/04/2022 01:29	WG1812954
1,3-Dichlorobenzene	U		0.110	1.00	1	02/04/2022 01:29	WG1812954
1,4-Dichlorobenzene	U		0.120	1.00	1	02/04/2022 01:29	WG1812954
Dichlorodifluoromethane	U		0.374	5.00	1	02/04/2022 01:29	WG1812954
1,1-Dichloroethane	U		0.100	1.00	1	02/04/2022 01:29	WG1812954
1,2-Dichloroethane	U		0.0819	1.00	1	02/04/2022 01:29	WG1812954
1,1-Dichloroethene	U		0.188	1.00	1	02/04/2022 01:29	WG1812954
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/04/2022 01:29	WG1812954
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/04/2022 01:29	WG1812954
1,2-Dichloropropane	U		0.149	1.00	1	02/04/2022 01:29	WG1812954
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/04/2022 01:29	WG1812954
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/04/2022 01:29	WG1812954
Ethylbenzene	U		0.137	1.00	1	02/04/2022 01:29	WG1812954
2-Hexanone	U		0.787	10.0	1	02/04/2022 01:29	WG1812954
Isopropylbenzene	U		0.105	1.00	1	02/04/2022 01:29	WG1812954
2-Butanone (MEK)	U		1.19	10.0	1	02/04/2022 01:29	WG1812954
Methyl Acetate	U		1.29	20.0	1	02/04/2022 01:29	WG1812954
Methyl Cyclohexane	U		0.660	1.00	1	02/04/2022 01:29	WG1812954
Methylene Chloride	U		0.430	5.00	1	02/04/2022 01:29	WG1812954
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/04/2022 01:29	WG1812954
Methyl tert-butyl ether	U		0.101	1.00	1	02/04/2022 01:29	WG1812954
Styrene	U		0.118	1.00	1	02/04/2022 01:29	WG1812954
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/04/2022 01:29	WG1812954
Tetrachloroethene	U		0.300	1.00	1	02/04/2022 01:29	WG1812954
Toluene	U		0.278	1.00	1	02/04/2022 01:29	WG1812954
1,2,3-Trichlorobenzene	U	C3	0.230	1.00	1	02/04/2022 01:29	WG1812954
1,2,4-Trichlorobenzene	U	C3	0.481	1.00	1	02/04/2022 01:29	WG1812954
1,1,1-Trichloroethane	U		0.149	1.00	1	02/04/2022 01:29	WG1812954
1,1,2-Trichloroethane	U		0.158	1.00	1	02/04/2022 01:29	WG1812954
Trichloroethene	U		0.190	1.00	1	02/04/2022 01:29	WG1812954
Trichlorofluoromethane	U		0.160	5.00	1	02/04/2022 01:29	WG1812954
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/04/2022 01:29	WG1812954
Vinyl chloride	U		0.234	1.00	1	02/04/2022 01:29	WG1812954
Xylenes, Total	U		0.174	3.00	1	02/04/2022 01:29	WG1812954
(S) Toluene-d8	106			80.0-120		02/04/2022 01:29	WG1812954
(S) 4-Bromofluorobenzene	97.4			77.0-126		02/04/2022 01:29	WG1812954
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		02/04/2022 01:29	WG1812954

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3757339-2 02/06/22 02:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		8450	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1457615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457615-02 02/06/22 02:31 • (DUP) R3757339-4 02/06/22 02:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	293000	294000	1	0.408		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1458030-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-01 02/06/22 03:28 • (DUP) R3757339-6 02/06/22 03:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	333000	334000	1	0.0961		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3757339-1 02/06/22 02:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	99800	99.8	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3756752-1 02/03/22 18:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ferrous Iron	U		15.0	50.0

L1457681-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-09 02/03/22 18:08 • (DUP) R3756752-3 02/03/22 18:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	1750	1760	1	0.742		20

Laboratory Control Sample (LCS)

(LCS) R3756752-2 02/03/22 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	961	96.1	85.0-115	

L1457681-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457681-11 02/03/22 18:11 • (MS) R3756752-4 02/03/22 18:12 • (MSD) R3756752-5 02/03/22 18:12

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ferrous Iron	1000	66.0	1010	958	94.5	89.2	1	80.0-120			5.38	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3763927-1 02/25/22 14:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ferrous Iron	U		15.0	50.0

L1457681-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-02 02/25/22 14:33 • (DUP) R3763927-3 02/25/22 14:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	1040	933	1	10.4		20

Laboratory Control Sample (LCS)

(LCS) R3763927-2 02/25/22 14:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	1110	111	85.0-115	

L1457681-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457681-04 02/25/22 14:34 • (MS) R3763927-4 02/25/22 14:35 • (MSD) R3763927-5 02/25/22 14:35

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ferrous Iron	1000	326	1350	1550	102	122	1	80.0-120		J5	13.9	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3761517-1 02/18/22 13:54

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1457529-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457529-02 02/18/22 13:58 • (DUP) R3761517-3 02/18/22 13:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	1560	1560	1	0.000		20

L1457536-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1457536-01 02/18/22 14:03 • (DUP) R3761517-4 02/18/22 14:04

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	203	206	1	1.47		20

Laboratory Control Sample (LCS)

(LCS) R3761517-2 02/18/22 13:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2330	93.2	90.0-110	

L1457536-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1457536-01 02/18/22 14:03 • (MS) R3761517-5 02/18/22 14:09

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	203	2980	111	1	90.0-110	J5

L1457529-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457529-02 02/18/22 13:58 • (MS) R3761517-6 02/18/22 14:44 • (MSD) R3761517-7 02/18/22 14:45

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	1560	4320	4320	110	110	1	90.0-110			0.000	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3757339-3 02/06/22 02:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Free Carbon Dioxide	U		6670	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1457615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457615-02 02/06/22 02:31 • (DUP) R3757339-5 02/06/22 02:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	24200	23300	1	3.63		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1458030-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-01 02/06/22 03:28 • (DUP) R3757339-7 02/06/22 03:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	134000	129000	1	3.47		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3756771-1 02/03/22 21:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.0	50.0

L1457681-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-02 02/03/22 21:06 • (DUP) R3756771-3 02/03/22 21:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1.28	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3756771-2 02/03/22 21:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	667	133	85.0-115	J4

L1457681-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457681-11 02/03/22 21:14 • (MS) R3756771-4 02/03/22 21:15 • (MSD) R3756771-5 02/03/22 21:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	640	U	680	678	106	106	1.28	80.0-120			0.189	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3756925-1 02/03/22 21:56

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1457607-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1457607-04 02/03/22 23:43 • (DUP) R3756925-3 02/03/22 23:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	47200	47400	1	0.361		15
Sulfate	37400	37500	1	0.388		15

L1457681-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-11 02/04/22 05:05 • (DUP) R3756925-5 02/04/22 05:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3756925-2 02/03/22 22:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	38800	96.9	80.0-120	
Sulfate	40000	39200	98.1	80.0-120	

L1457607-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1457607-04 02/03/22 23:43 • (MS) R3756925-4 02/04/22 00:09

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Chloride	50000	47200	97000	99.5	1	80.0-120	
Sulfate	50000	37400	87200	99.6	1	80.0-120	

L1457681-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457681-11 02/04/22 05:05 • (MS) R3756925-6 02/04/22 05:31 • (MSD) R3756925-7 02/04/22 05:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50000	U	52000	50600	104	101	1	80.0-120			2.83	15
Sulfate	50000	U	52100	50600	104	101	1	80.0-120			2.97	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3757352-2 02/05/22 09:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	509	⬇	102	1000

L1457615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457615-02 02/05/22 11:23 • (DUP) R3757352-5 02/05/22 11:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1470	1420	1	3.59		20

L1457681-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-03 02/05/22 12:44 • (DUP) R3757352-6 02/05/22 13:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	6400	6340	1	0.973		20

Laboratory Control Sample (LCS)

(LCS) R3757352-1 02/05/22 09:03

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	73900	98.5	85.0-115	

L1457588-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457588-03 02/05/22 10:08 • (MS) R3757352-3 02/05/22 10:27 • (MSD) R3757352-4 02/05/22 10:45

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	667	49800	50100	98.2	98.9	1	80.0-120			0.721	20

L1457681-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457681-11 02/05/22 15:54 • (MS) R3757352-7 02/05/22 16:12 • (MSD) R3757352-8 02/05/22 16:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	409	48400	49100	95.9	97.4	1	80.0-120			1.46	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3758239-1 02/09/22 00:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		18.0	100
Manganese	U		0.934	10.0
Sodium	1060	⬇	504	3000

Laboratory Control Sample (LCS)

(LCS) R3758239-2 02/09/22 01:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9590	95.9	80.0-120	
Manganese	1000	956	95.6	80.0-120	
Sodium	10000	10400	104	80.0-120	

L1458241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458241-01 02/09/22 01:04 • (MS) R3758239-4 02/09/22 01:09 • (MSD) R3758239-5 02/09/22 01:12

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 %
Iron	10000	597	10200	10100	96.3	95.4	1	75.0-125			0.958	20
Manganese	1000	1500	2410	2400	91.2	90.0	1	75.0-125			0.494	20
Sodium	10000	41600	49600	49900	80.5	83.6	1	75.0-125			0.627	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3757240-2 02/05/22 10:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1457681-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1457681-05 02/05/22 11:28 • (DUP) R3757240-3 02/05/22 11:31

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	118	133	1	12.0		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1457900-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1457900-03 02/05/22 12:45 • (DUP) R3757240-4 02/05/22 12:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	131	155	1	16.8		20
Ethane	U	U	1	0.000		20
Ethene	10.0	12.0	1	18.2	⬇	20

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

(LCS) R3757240-1 02/05/22 10:47 • (LCSD) R3757240-7 02/05/22 13:09

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 %
Methane	67.8	65.5	77.7	96.6	115	85.0-115			17.0	20
Ethane	129	119	141	92.2	109	85.0-115			16.9	20
Ethene	127	119	141	93.7	111	85.0-115			16.9	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1457484-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457484-04 02/05/22 11:10 • (MS) R3757240-5 02/05/22 12:53 • (MSD) R3757240-6 02/05/22 13:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	U	83.1	81.6	123	120	1	50.0-150			1.82	20
Ethane	129	U	143	141	111	109	1	50.0-150			1.41	20
Ethene	127	U	141	142	111	112	1	50.0-150			0.707	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3756957-4 02/03/22 23:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3756957-4 02/03/22 23:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	99.2			80.0-120
(S) 4-Bromofluorobenzene	95.8			77.0-126
(S) 1,2-Dichloroethane-d4	114			70.0-130

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

(LCS) R3756957-1 02/03/22 21:48 • (LCSD) R3756957-2 02/03/22 22:08

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 %
Acetone	25.0	39.9	39.0	160	156	19.0-160			2.28	27
Benzene	5.00	5.25	4.90	105	98.0	70.0-123			6.90	20
Bromodichloromethane	5.00	5.63	5.58	113	112	75.0-120			0.892	20
Bromochloromethane	5.00	5.46	5.14	109	103	76.0-122			6.04	20
Bromoform	5.00	5.21	5.17	104	103	68.0-132			0.771	20
Bromomethane	5.00	5.29	4.72	106	94.4	10.0-160			11.4	25
Carbon disulfide	5.00	5.69	5.20	114	104	61.0-128			9.00	20
Carbon tetrachloride	5.00	5.70	5.31	114	106	68.0-126			7.08	20
Chlorobenzene	5.00	5.22	4.96	104	99.2	80.0-121			5.11	20
Chlorodibromomethane	5.00	5.40	5.22	108	104	77.0-125			3.39	20
Chloroethane	5.00	5.55	5.32	111	106	47.0-150			4.23	20
Chloroform	5.00	5.83	5.44	117	109	73.0-120			6.92	20
Chloromethane	5.00	5.67	5.27	113	105	41.0-142			7.31	20
Cyclohexane	5.00	5.31	4.90	106	98.0	71.0-124			8.03	20
1,2-Dibromo-3-Chloropropane	5.00	5.60	5.95	112	119	58.0-134			6.06	20
1,2-Dibromoethane	5.00	5.09	5.03	102	101	80.0-122			1.19	20
1,2-Dichlorobenzene	5.00	5.38	5.46	108	109	79.0-121			1.48	20
1,3-Dichlorobenzene	5.00	5.54	5.40	111	108	79.0-120			2.56	20
1,4-Dichlorobenzene	5.00	5.48	5.22	110	104	79.0-120			4.86	20
Dichlorodifluoromethane	5.00	5.66	4.97	113	99.4	51.0-149			13.0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3756957-1 02/03/22 21:48 • (LCSD) R3756957-2 02/03/22 22:08

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 %
1,1-Dichloroethane	5.00	5.61	5.09	112	102	70.0-126			9.72	20
1,2-Dichloroethane	5.00	5.77	5.60	115	112	70.0-128			2.99	20
1,1-Dichloroethene	5.00	5.20	4.72	104	94.4	71.0-124			9.68	20
cis-1,2-Dichloroethene	5.00	5.04	4.91	101	98.2	73.0-120			2.61	20
trans-1,2-Dichloroethene	5.00	5.60	4.85	112	97.0	73.0-120			14.4	20
1,2-Dichloropropane	5.00	5.96	5.31	119	106	77.0-125			11.5	20
cis-1,3-Dichloropropene	5.00	5.73	5.83	115	117	80.0-123			1.73	20
trans-1,3-Dichloropropene	5.00	5.36	5.27	107	105	78.0-124			1.69	20
Ethylbenzene	5.00	4.99	4.83	99.8	96.6	79.0-123			3.26	20
2-Hexanone	25.0	26.1	27.0	104	108	67.0-149			3.39	20
Isopropylbenzene	5.00	5.18	4.98	104	99.6	76.0-127			3.94	20
2-Butanone (MEK)	25.0	32.8	33.4	131	134	44.0-160			1.81	20
Methyl Acetate	25.0	34.6	34.2	138	137	57.0-148			1.16	20
Methyl Cyclohexane	5.00	5.12	4.79	102	95.8	68.0-126			6.66	20
Methylene Chloride	5.00	5.59	5.24	112	105	67.0-120			6.46	20
4-Methyl-2-pentanone (MIBK)	25.0	29.6	30.0	118	120	68.0-142			1.34	20
Methyl tert-butyl ether	5.00	5.96	5.79	119	116	68.0-125			2.89	20
Styrene	5.00	4.72	4.42	94.4	88.4	73.0-130			6.56	20
1,1,2,2-Tetrachloroethane	5.00	5.61	5.33	112	107	65.0-130			5.12	20
Tetrachloroethene	5.00	4.99	4.92	99.8	98.4	72.0-132			1.41	20
Toluene	5.00	5.25	5.00	105	100	79.0-120			4.88	20
1,1,2-Trichlorotrifluoroethane	5.00	5.14	4.94	103	98.8	69.0-132			3.97	20
1,2,3-Trichlorobenzene	5.00	4.52	4.66	90.4	93.2	50.0-138			3.05	20
1,2,4-Trichlorobenzene	5.00	5.42	4.90	108	98.0	57.0-137			10.1	20
1,1,1-Trichloroethane	5.00	5.71	5.27	114	105	73.0-124			8.01	20
1,1,2-Trichloroethane	5.00	5.12	5.19	102	104	80.0-120			1.36	20
Trichloroethene	5.00	5.53	5.08	111	102	78.0-124			8.48	20
Trichlorofluoromethane	5.00	5.31	4.67	106	93.4	59.0-147			12.8	20
Vinyl chloride	5.00	4.95	4.65	99.0	93.0	67.0-131			6.25	20
Xylenes, Total	15.0	15.3	14.8	102	98.7	79.0-123			3.32	20
(S) Toluene-d8				96.8	98.3	80.0-120				
(S) 4-Bromofluorobenzene				98.1	98.1	77.0-126				
(S) 1,2-Dichloroethane-d4				113	112	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3757919-2 02/03/22 23:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3757919-2 02/03/22 23:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	98.1			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3757919-1 02/03/22 23:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	25.9	104	19.0-160	
Benzene	5.00	4.44	88.8	70.0-123	
Bromodichloromethane	5.00	4.70	94.0	75.0-120	
Bromochloromethane	5.00	4.70	94.0	76.0-122	
Bromoform	5.00	4.18	83.6	68.0-132	
Bromomethane	5.00	4.59	91.8	10.0-160	
Carbon disulfide	5.00	4.87	97.4	61.0-128	
Carbon tetrachloride	5.00	4.53	90.6	68.0-126	
Chlorobenzene	5.00	4.81	96.2	80.0-121	
Chlorodibromomethane	5.00	4.75	95.0	77.0-125	
Chloroethane	5.00	5.19	104	47.0-150	
Chloroform	5.00	4.86	97.2	73.0-120	
Chloromethane	5.00	4.55	91.0	41.0-142	
Cyclohexane	5.00	4.74	94.8	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.08	81.6	58.0-134	
1,2-Dibromoethane	5.00	4.75	95.0	80.0-122	
1,2-Dichlorobenzene	5.00	4.80	96.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.85	97.0	79.0-120	
1,4-Dichlorobenzene	5.00	4.98	99.6	79.0-120	
Dichlorodifluoromethane	5.00	4.62	92.4	51.0-149	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3757919-1 02/03/22 23:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,1-Dichloroethane	5.00	4.54	90.8	70.0-126	
1,2-Dichloroethane	5.00	4.67	93.4	70.0-128	
1,1-Dichloroethene	5.00	4.68	93.6	71.0-124	
cis-1,2-Dichloroethene	5.00	4.63	92.6	73.0-120	
trans-1,2-Dichloroethene	5.00	4.88	97.6	73.0-120	
1,2-Dichloropropane	5.00	5.05	101	77.0-125	
cis-1,3-Dichloropropene	5.00	4.52	90.4	80.0-123	
trans-1,3-Dichloropropene	5.00	4.89	97.8	78.0-124	
Ethylbenzene	5.00	4.65	93.0	79.0-123	
2-Hexanone	25.0	24.3	97.2	67.0-149	
Isopropylbenzene	5.00	4.66	93.2	76.0-127	
2-Butanone (MEK)	25.0	26.4	106	44.0-160	
Methyl Acetate	25.0	27.8	111	57.0-148	
Methyl Cyclohexane	5.00	4.67	93.4	68.0-126	
Methylene Chloride	5.00	4.88	97.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.9	108	68.0-142	
Methyl tert-butyl ether	5.00	4.72	94.4	68.0-125	
Styrene	5.00	4.22	84.4	73.0-130	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	65.0-130	
Tetrachloroethene	5.00	4.71	94.2	72.0-132	
Toluene	5.00	4.74	94.8	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.65	93.0	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.81	76.2	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.09	81.8	57.0-137	
1,1,1-Trichloroethane	5.00	4.66	93.2	73.0-124	
1,1,2-Trichloroethane	5.00	5.04	101	80.0-120	
Trichloroethene	5.00	4.62	92.4	78.0-124	
Trichlorofluoromethane	5.00	4.70	94.0	59.0-147	
Vinyl chloride	5.00	4.68	93.6	67.0-131	
Xylenes, Total	15.0	14.5	96.7	79.0-123	
(S) Toluene-d8			100	80.0-120	
(S) 4-Bromofluorobenzene			97.1	77.0-126	
(S) 1,2-Dichloroethane-d4			101	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3758024-2 02/08/22 10:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methyl tert-butyl ether	U		0.101	1.00
(S) Toluene-d8	93.0			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	83.0			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3758024-1 02/08/22 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Methyl tert-butyl ether	5.00	5.94	119	68.0-125	
(S) Toluene-d8			90.3	80.0-120	
(S) 4-Bromofluorobenzene			102	77.0-126	
(S) 1,2-Dichloroethane-d4			86.8	70.0-130	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

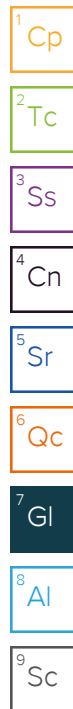
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	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
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

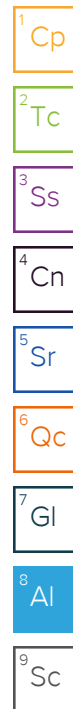
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

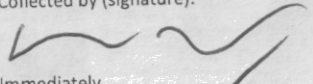
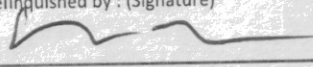
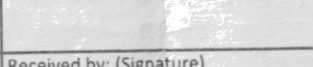
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Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina 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	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
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

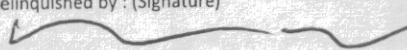
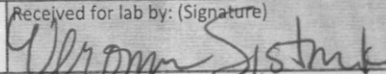
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Ryan Merrell				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>3</u>	
				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.com																 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Project Description: POD 4 - Oceanside 6518040				City/State Collected: <u>Oceanside NY</u>		Please Circle: PT MT CT ET															
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040																	
Collected by (print): <u>Shannon Torhan</u>		Site/Facility ID # 6518040		P.O. # <u>30062947</u>																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # <u>Standard TAT</u>																	
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed <u>Standard TAT</u>																	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs														
MW-27-D2-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
MW-28-D2R-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
MW-24-D2-W-2202 <u>D2</u>		<u>6</u>	GW		<u>2/2/22</u>	<u>0025</u>	11	X	X	X	X	X	X	X	X	X		<u>01</u>			
MW-24-VDR-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-15-VD-W-2202 <u>01</u>		<u>6</u>	GW		<u>2/1/22</u>	<u>2305</u>	11	X	X	X	X	X	X	X	X	X		<u>02</u>			
AMW-7R-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-14-VD-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-14-D2-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
MW-28-D1-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
MW-26-D2-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N											
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Tracking # <u>5433 8387 1473</u>																			
Relinquished by: (Signature) 		Date: <u>2/2/22</u>	Time: <u>1500</u>	Received by: (Signature) 		Trip Blank Received: ☒ Yes ☐ No HCL / MeOH TBR															
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: _____ °C Bottles Received: <u>NSA2 1.0 + 0 = 1.0 110</u>		If preservation required by Login: Date/Time													
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>Veronica Sisti</u>		Date: <u>2/3/22</u> Time: <u>1420</u>		Hold:										Condition: NCF / ☒ OK			

[illegible]

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Ryan Merrell				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page 3 of 3	
				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.				 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf											
Project Description: POD 4 - Oceanside 6518040				City/State Collected: Oceanside NY		Please Circle: PT MT CT ET													
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040															
Collected by (print): Shannon Torhan		Site/Facility ID # 6518040		P.O. # 30062947															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # Standard TAG															
Immediately Packed on Ice N ☐ Y ☐				Date Results Needed Standard TAG															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
MW-18R-W-2202			GW				11	X	X	X	X	X	X	X	X				
BD-W-2202 02		6	GW		2/2/22		11	X	X	X	X	X	X	X	X			-09	
FB-W-2202 02		6	GW		2/2/22 0130		11	X	X	X	X	X	X	X	X			-10	
FB-W-2202			GW				11	X	X	X	X	X	X	X	X				
FB-W-2202			GW				11	X	X	X	X	X	X	X	X				
			GW				11	X	X	X	X	X	X	X	X				
			GW				11	X	X	X	X	X	X	X	X				
TB-W-2202 02		6	GW		2/2/22		1									X		-11	
TB-W-2202			GW				1									X			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 m/hr: ☒ Y ☐ N					
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Tracking # 5433 8387 1473										Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR							
Relinquished by: (Signature) 		Date: 2/2/22	Time: 1500	Received by: (Signature)		Temp: 1 °C Bottles Received: NSA2-1.0+0=1.0 110		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	Hold:	Condition: NCF / OK									
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: 2/3/22		Time: 1420											

L1457681'

<u>Tracking Numbers</u>		<u>Temperature</u>		
5433	8387	1473	NSA2	1.04.0-1.0
"	"	1484	NSA2	4.74.0-4.6

Arcadis - Chevron - NY

Sample Delivery Group: L1458030
Samples Received: 02/05/2022
Project Number: 30062947.19.21
Description: POD 4 - Oceanside 6518040
Site: 6518040
Report To: Ryan Merrell
27-01 Queens Plaza North
Suite 800
New York City, NY 11101

Entire Report Reviewed By:



Chris McCord
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.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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

SAMPLE SUMMARY

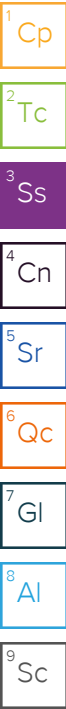
MW-27-D2-W-220202 L1458030-01 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 22:30

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:13	02/09/22 00:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:28	02/06/22 03:28	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	25	02/06/22 11:11	02/06/22 11:11	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819074	1	02/17/22 03:32	02/17/22 03:32	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:28	02/06/22 03:28	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:51	02/06/22 11:51	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 20:29	02/06/22 20:29	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813833	1	02/07/22 23:44	02/07/22 23:44	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:13	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:05	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 15:40	02/09/22 15:40	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 16:10	02/05/22 16:10	ACG	Mt. Juliet, TN



AMW-14-VD-W-220202 L1458030-02 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 22:00

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:16	02/09/22 00:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:34	02/06/22 03:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	25	02/06/22 11:12	02/06/22 11:12	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819074	5	02/17/22 03:33	02/17/22 03:33	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:34	02/06/22 03:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:51	02/06/22 11:51	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 20:42	02/06/22 20:42	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	500	02/06/22 20:54	02/06/22 20:54	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813833	1	02/08/22 00:01	02/08/22 00:01	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:16	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	10	02/07/22 18:16	02/09/22 12:22	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 15:47	02/09/22 15:47	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 16:30	02/05/22 16:30	ACG	Mt. Juliet, TN

AMW-14-D2-W-220202 L1458030-03 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 21:30

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:19	02/09/22 00:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:37	02/06/22 03:37	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	2	02/06/22 11:13	02/06/22 11:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819074	20	02/17/22 03:34	02/17/22 03:34	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:37	02/06/22 03:37	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	10	02/06/22 11:52	02/06/22 11:52	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	10	02/06/22 21:06	02/06/22 21:06	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 21:44	02/06/22 21:44	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813833	1	02/08/22 00:54	02/08/22 00:54	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:19	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:25	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 15:50	02/09/22 15:50	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 16:50	02/05/22 16:50	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

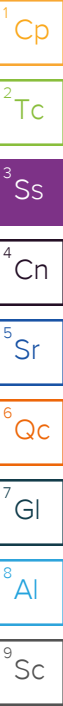
MW-27-D1R-W-220202 L1458030-04 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 22:50

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:22	02/09/22 00:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:41	02/06/22 03:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	1	02/06/22 11:13	02/06/22 11:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819074	20	02/17/22 03:36	02/17/22 03:36	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:41	02/06/22 03:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	10	02/06/22 11:53	02/06/22 11:53	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	10	02/06/22 21:56	02/06/22 21:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 22:09	02/06/22 22:09	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813833	5	02/08/22 01:11	02/08/22 01:11	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:22	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:28	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 15:55	02/09/22 15:55	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 17:11	02/05/22 17:11	ACG	Mt. Juliet, TN



AMW-14-D1-W-220202 L1458030-05 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 21:35

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:30	02/09/22 00:30	KMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:53	02/06/22 03:53	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	1	02/06/22 11:14	02/06/22 11:14	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819881	5	02/21/22 23:59	02/21/22 23:59	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:53	02/06/22 03:53	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	25	02/06/22 11:53	02/06/22 11:53	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	10	02/06/22 22:21	02/06/22 22:21	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 22:34	02/06/22 22:34	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1813833	5	02/08/22 01:34	02/08/22 01:34	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:30	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:31	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:18	02/09/22 16:18	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 17:31	02/05/22 17:31	ACG	Mt. Juliet, TN

TB-W-220203 L1458030-06 GW

Collected by
Avidana Bell

Collected date/time
02/03/22 00:00

Received date/time
02/05/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 15:30	02/05/22 15:30	ACG	Mt. Juliet, TN

MW-28-D2R-W-220202 L1458030-07 GW

Collected by
Avidana Bell

Collected date/time
02/02/22 19:05

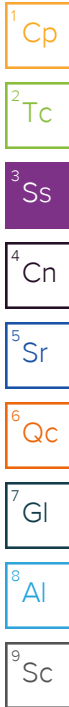
Received date/time
02/05/22 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:33	02/09/22 00:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 03:57	02/06/22 03:57	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	10	02/06/22 11:14	02/06/22 11:14	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819881	1	02/22/22 00:04	02/22/22 00:04	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 03:57	02/06/22 03:57	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:55	02/06/22 11:55	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 22:46	02/06/22 22:46	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1814325	1	02/08/22 12:02	02/08/22 12:02	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:33	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:33	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:26	02/09/22 16:26	CMS	Mt. Juliet, TN

SAMPLE SUMMARY

MW-28-D2R-W-220202 L1458030-07 GW

				Collected by Avidana Bell	Collected date/time 02/02/22 19:05	Received date/time 02/05/22 12:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 17:52	02/05/22 17:52	ACG	Mt. Juliet, TN



MW-28-D1-W-220202 L1458030-08 GW

				Collected by Avidana Bell	Collected date/time 02/02/22 19:00	Received date/time 02/05/22 12:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:35	02/09/22 00:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 04:00	02/06/22 04:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	1	02/06/22 11:15	02/06/22 11:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819881	1	02/22/22 00:06	02/22/22 00:06	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 04:00	02/06/22 04:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:55	02/06/22 11:55	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	5	02/06/22 22:58	02/06/22 22:58	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1814325	1	02/08/22 12:30	02/08/22 12:30	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:35	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:32	02/09/22 16:32	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 18:13	02/05/22 18:13	ACG	Mt. Juliet, TN

MW-26-D1-W-220202 L1458030-09 GW

				Collected by Avidana Bell	Collected date/time 02/02/22 20:45	Received date/time 02/05/22 12:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813769	1	02/09/22 00:38	02/09/22 00:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 04:04	02/06/22 04:04	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	1	02/06/22 11:15	02/06/22 11:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819881	5	02/22/22 00:07	02/22/22 00:07	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 04:04	02/06/22 04:04	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:56	02/06/22 11:56	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	10	02/06/22 23:11	02/06/22 23:11	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	100	02/06/22 23:23	02/06/22 23:23	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1814325	5	02/08/22 12:48	02/08/22 12:48	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	1	02/07/22 18:16	02/09/22 00:38	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813769	5	02/07/22 18:16	02/09/22 12:36	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:36	02/09/22 16:36	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813448	1	02/05/22 18:33	02/05/22 18:33	ACG	Mt. Juliet, TN

MW-18R-W-220202 L1458030-10 GW

				Collected by Avidana Bell	Collected date/time 02/02/22 19:45	Received date/time 02/05/22 12:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG1819881	5	02/22/22 00:08	02/22/22 00:08	CAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:46	02/09/22 16:46	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813590	1	02/06/22 11:55	02/06/22 11:55	JAH	Mt. Juliet, TN

FB-W-220203 L1458030-11 GW

				Collected by Avidana Bell	Collected date/time 02/03/22 00:15	Received date/time 02/05/22 12:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1813773	1	02/09/22 10:23	02/09/22 10:23	KMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1813546	1	02/06/22 04:08	02/06/22 04:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1813576	1	02/06/22 11:15	02/06/22 11:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1819881	1	02/22/22 00:09	02/22/22 00:09	CAT	Mt. Juliet, TN

SAMPLE SUMMARY

FB-W-220203 L1458030-11 GW

Collected by
Avidana Bell

Collected date/time
02/03/22 00:15

Received date/time
02/05/22 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CO2 D-2011	WG1813546	1	02/06/22 04:08	02/06/22 04:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1813575	1	02/06/22 11:56	02/06/22 11:56	PSN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1813740	1	02/06/22 23:36	02/06/22 23:36	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1814325	1	02/08/22 13:03	02/08/22 13:03	RMR	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1813773	1	02/07/22 17:24	02/09/22 10:23	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1815365	1	02/09/22 16:49	02/09/22 16:49	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1813590	1	02/06/22 11:34	02/06/22 11:34	JAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

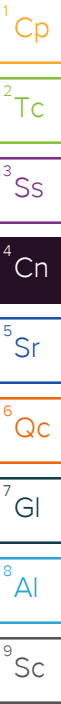
⁹Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Chris McCord
Project Manager



Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1813546	4500CO2 D-2011	L1458030-01, 02, 03, 04, 05, 07, 08, 09, 11
WG1813576	3500Fe B-2011	L1458030-01, 02, 03, 04, 05, 07, 08, 09, 11

Wet Chemistry by Method 4500S2 D-2011

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1813575	(MS) R3757363-5, (MSD) R3757363-6	Sulfide

Wet Chemistry by Method 9060A

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1814325	TOC (Total Organic Carbon)	L1458030-11

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1813833	(MS) R3757827-3, (MSD) R3757827-4	TOC (Total Organic Carbon)

Metals (ICP) by Method 6010C

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1813769	Iron	L1458030-08, 09

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1813769	(MS) R3758238-4, (MSD) R3758238-5	Sodium

CASE NARRATIVE

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

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1813448	L1458030-01	Bromomethane
WG1813448	L1458030-02	Bromomethane
WG1813448	L1458030-03	Bromomethane
WG1813448	L1458030-04	Bromomethane
WG1813448	L1458030-05	Bromomethane
WG1813448	L1458030-06	Bromomethane
WG1813448	L1458030-07	Bromomethane
WG1813448	L1458030-08	Bromomethane
WG1813448	L1458030-09	Bromomethane

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1813448	(LCS) R3757593-1, (LCSD) R3757593-3, L1458030-01, 02, 03, 04, 05, 06, 07, 08, 09	1,2-Dichloropropane and Acetone

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1813448	(LCSD) R3757593-3, L1458030-01, 02, 03, 04, 05, 06, 07, 08, 09	Chloromethane

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	02/09/2022 00:13	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	333000		8450	20000	1	02/06/2022 03:28	WG1813546

Sample Narrative:

L1458030-01 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	16800	T8	375	1250	25	02/06/2022 11:11	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	02/17/2022 03:32	WG1819074

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	134000	T8	20000	1	02/06/2022 03:28	WG1813546

Sample Narrative:

L1458030-01 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:51	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	7580000		37900	100000	100	02/06/2022 20:29	WG1813740
Sulfate	1020000		59400	500000	100	02/06/2022 20:29	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5720		102	1000	1	02/07/2022 23:44	WG1813833

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	12200		18.0	100	1	02/09/2022 00:13	WG1813769
Manganese	1680		0.934	10.0	1	02/09/2022 00:13	WG1813769
Sodium	4350000		2520	15000	5	02/09/2022 12:05	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	104		2.91	10.0	1	02/09/2022 15:40	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 15:40	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 15:40	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 16:10	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 16:10	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 16:10	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 16:10	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 16:10	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 16:10	WG1813448
Carbon disulfide	U		0.0962	1.00	1	02/05/2022 16:10	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 16:10	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 16:10	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 16:10	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 16:10	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 16:10	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 16:10	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 16:10	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 16:10	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 16:10	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 16:10	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 16:10	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 16:10	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 16:10	WG1813448
1,1-Dichloroethane	0.282	J	0.100	1.00	1	02/05/2022 16:10	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 16:10	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 16:10	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 16:10	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 16:10	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 16:10	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 16:10	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 16:10	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 16:10	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 16:10	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 16:10	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 16:10	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 16:10	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 16:10	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 16:10	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 16:10	WG1813448
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2022 16:10	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 16:10	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 16:10	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 16:10	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 16:10	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 16:10	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 16:10	WG1813448
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 16:10	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 16:10	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 16:10	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 16:10	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 16:10	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 16:10	WG1813448



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	02/05/2022 16:10	WG1813448
(S) Toluene-d8	96.4			80.0-120		02/05/2022 16:10	WG1813448
(S) 4-Bromofluorobenzene	99.1			77.0-126		02/05/2022 16:10	WG1813448
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		02/05/2022 16:10	WG1813448

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	02/09/2022 00:16	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	518000		8450	20000	1	02/06/2022 03:34	WG1813546

Sample Narrative:

L1458030-02 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	20600	T8	375	1250	25	02/06/2022 11:12	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	02/17/2022 03:33	WG1819074

Sample Narrative:

L1458030-02 WG1819074: Dilution due to sulfide hit and treatment for iron.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	138000	T8	20000	1	02/06/2022 03:34	WG1813546

Sample Narrative:

L1458030-02 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:51	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	16100000		190000	500000	500	02/06/2022 20:54	WG1813740
Sulfate	1880000		59400	500000	100	02/06/2022 20:42	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7000		102	1000	1	02/08/2022 00:01	WG1813833

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	18200		18.0	100	1	02/09/2022 00:16	WG1813769
Manganese	411		0.934	10.0	1	02/09/2022 00:16	WG1813769

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	8690000		5040	30000	10	02/09/2022 12:22	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	9.62	J	2.91	10.0	1	02/09/2022 15:47	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 15:47	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 15:47	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 16:30	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 16:30	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 16:30	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 16:30	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 16:30	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 16:30	WG1813448
Carbon disulfide	U		0.0962	1.00	1	02/05/2022 16:30	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 16:30	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 16:30	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 16:30	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 16:30	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 16:30	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 16:30	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 16:30	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 16:30	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 16:30	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 16:30	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 16:30	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 16:30	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 16:30	WG1813448
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2022 16:30	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 16:30	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 16:30	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 16:30	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 16:30	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 16:30	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 16:30	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 16:30	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 16:30	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 16:30	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 16:30	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 16:30	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 16:30	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 16:30	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 16:30	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 16:30	WG1813448
Methyl tert-butyl ether	0.263	J	0.101	1.00	1	02/05/2022 16:30	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 16:30	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 16:30	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 16:30	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 16:30	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 16:30	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 16:30	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 16:30	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 16:30	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 16:30	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 16:30	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 16:30	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 16:30	WG1813448
Xylenes, Total	U		0.174	3.00	1	02/05/2022 16:30	WG1813448
(S) Toluene-d8	98.4			80.0-120		02/05/2022 16:30	WG1813448
(S) 4-Bromofluorobenzene	98.0			77.0-126		02/05/2022 16:30	WG1813448
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		02/05/2022 16:30	WG1813448

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	02/09/2022 00:19	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	816000		8450	20000	1	02/06/2022 03:37	WG1813546

Sample Narrative:

L1458030-03 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	4620	T8	30.0	100	2	02/06/2022 11:13	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	02/17/2022 03:34	WG1819074

Sample Narrative:

L1458030-03 WG1819074: Dilution due to sulfide hit and treatment for iron

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	103000	T8	20000	1	02/06/2022 03:37	WG1813546

Sample Narrative:

L1458030-03 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	4040		250	500	10	02/06/2022 11:52	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4690000		37900	100000	100	02/06/2022 21:44	WG1813740
Sulfate	221000		5940	50000	10	02/06/2022 21:06	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15700		102	1000	1	02/08/2022 00:54	WG1813833

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3310		18.0	100	1	02/09/2022 00:19	WG1813769
Manganese	122		0.934	10.0	1	02/09/2022 00:19	WG1813769

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2260000		2520	15000	5	02/09/2022 12:25	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	326		2.91	10.0	1	02/09/2022 15:50	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 15:50	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 15:50	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 16:50	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 16:50	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 16:50	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 16:50	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 16:50	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 16:50	WG1813448
Carbon disulfide	U		0.0962	1.00	1	02/05/2022 16:50	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 16:50	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 16:50	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 16:50	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 16:50	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 16:50	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 16:50	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 16:50	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 16:50	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 16:50	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 16:50	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 16:50	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 16:50	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 16:50	WG1813448
1,1-Dichloroethane	0.105	J	0.100	1.00	1	02/05/2022 16:50	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 16:50	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 16:50	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 16:50	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 16:50	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 16:50	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 16:50	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 16:50	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 16:50	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 16:50	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 16:50	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 16:50	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 16:50	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 16:50	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 16:50	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 16:50	WG1813448
Methyl tert-butyl ether	29.1		0.101	1.00	1	02/05/2022 16:50	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 16:50	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 16:50	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 16:50	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 16:50	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 16:50	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 16:50	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 16:50	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 16:50	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 16:50	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 16:50	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 16:50	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 16:50	WG1813448
Xylenes, Total	U		0.174	3.00	1	02/05/2022 16:50	WG1813448
(S) Toluene-d8	97.3			80.0-120		02/05/2022 16:50	WG1813448
(S) 4-Bromofluorobenzene	99.4			77.0-126		02/05/2022 16:50	WG1813448
(S) 1,2-Dichloroethane-d4	99.5			70.0-130		02/05/2022 16:50	WG1813448

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	3020		15.0	50.0	1	02/09/2022 00:22	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	675000		8450	20000	1	02/06/2022 03:41	WG1813546

Sample Narrative:

L1458030-04 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	751	T8	15.0	50.0	1	02/06/2022 11:13	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	02/17/2022 03:36	WG1819074

Sample Narrative:

L1458030-04 WG1819074: Dilution due to sulfide hit and treatment for iron

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	109000	T8	20000	1	02/06/2022 03:41	WG1813546

Sample Narrative:

L1458030-04 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	4520		250	500	10	02/06/2022 11:53	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4100000		37900	100000	100	02/06/2022 22:09	WG1813740
Sulfate	177000		5940	50000	10	02/06/2022 21:56	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14400		510	5000	5	02/08/2022 01:11	WG1813833

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3770		18.0	100	1	02/09/2022 00:22	WG1813769
Manganese	100		0.934	10.0	1	02/09/2022 00:22	WG1813769

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2150000		2520	15000	5	02/09/2022 12:28	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	376		2.91	10.0	1	02/09/2022 15:55	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 15:55	WG1815365
Ethene	6.14	<u>J</u>	4.26	13.0	1	02/09/2022 15:55	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>J4</u>	11.3	50.0	1	02/05/2022 17:11	WG1813448
Benzene	2.42		0.0941	1.00	1	02/05/2022 17:11	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 17:11	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 17:11	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 17:11	WG1813448
Bromomethane	U	<u>C3</u>	0.605	5.00	1	02/05/2022 17:11	WG1813448
Carbon disulfide	1.27		0.0962	1.00	1	02/05/2022 17:11	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 17:11	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 17:11	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 17:11	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 17:11	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 17:11	WG1813448
Chloromethane	U	<u>J3</u>	0.960	2.50	1	02/05/2022 17:11	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 17:11	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 17:11	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 17:11	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 17:11	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 17:11	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 17:11	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 17:11	WG1813448
1,1-Dichloroethane	0.325	<u>J</u>	0.100	1.00	1	02/05/2022 17:11	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 17:11	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 17:11	WG1813448
cis-1,2-Dichloroethene	0.712	<u>J</u>	0.126	1.00	1	02/05/2022 17:11	WG1813448
trans-1,2-Dichloroethene	1.80		0.149	1.00	1	02/05/2022 17:11	WG1813448
1,2-Dichloropropane	U	<u>J4</u>	0.149	1.00	1	02/05/2022 17:11	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 17:11	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 17:11	WG1813448
Ethylbenzene	0.165	<u>J</u>	0.137	1.00	1	02/05/2022 17:11	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 17:11	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 17:11	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 17:11	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 17:11	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 17:11	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 17:11	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 17:11	WG1813448
Methyl tert-butyl ether	18.8		0.101	1.00	1	02/05/2022 17:11	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 17:11	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 17:11	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 17:11	WG1813448
Toluene	0.297	<u>J</u>	0.278	1.00	1	02/05/2022 17:11	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 17:11	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 17:11	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 17:11	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 17:11	WG1813448
Trichloroethene	0.208	U	0.190	1.00	1	02/05/2022 17:11	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 17:11	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 17:11	WG1813448
Vinyl chloride	27.1		0.234	1.00	1	02/05/2022 17:11	WG1813448
Xylenes, Total	0.515	U	0.174	3.00	1	02/05/2022 17:11	WG1813448
(S) Toluene-d8	99.5			80.0-120		02/05/2022 17:11	WG1813448
(S) 4-Bromofluorobenzene	99.7			77.0-126		02/05/2022 17:11	WG1813448
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/05/2022 17:11	WG1813448

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	3840		15.0	50.0	1	02/09/2022 00:30	WG1813769

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	541000		8450	20000	1	02/06/2022 03:53	WG1813546

Sample Narrative:

L1458030-05 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1380	T8	15.0	50.0	1	02/06/2022 11:14	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	02/21/2022 23:59	WG1819881

Sample Narrative:

L1458030-05 WG1819881: Dilution due to sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	40800	T8	20000	1	02/06/2022 03:53	WG1813546

Sample Narrative:

L1458030-05 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	11000		625	1250	25	02/06/2022 11:53	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3090000		37900	100000	100	02/06/2022 22:34	WG1813740
Sulfate	114000		5940	50000	10	02/06/2022 22:21	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	34000		510	5000	5	02/08/2022 01:34	WG1813833

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5220		18.0	100	1	02/09/2022 00:30	WG1813769
Manganese	94.9		0.934	10.0	1	02/09/2022 00:30	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1900000		2520	15000	5	02/09/2022 12:31	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1020		2.91	10.0	1	02/09/2022 16:18	WG1815365
Ethane	93.6		4.07	13.0	1	02/09/2022 16:18	WG1815365
Ethene	16.8		4.26	13.0	1	02/09/2022 16:18	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 17:31	WG1813448
Benzene	4.61		0.0941	1.00	1	02/05/2022 17:31	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 17:31	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 17:31	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 17:31	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 17:31	WG1813448
Carbon disulfide	1.77		0.0962	1.00	1	02/05/2022 17:31	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 17:31	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 17:31	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 17:31	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 17:31	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 17:31	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 17:31	WG1813448
Cyclohexane	1.61		0.188	1.00	1	02/05/2022 17:31	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 17:31	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 17:31	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 17:31	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 17:31	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 17:31	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 17:31	WG1813448
1,1-Dichloroethane	0.517	J	0.100	1.00	1	02/05/2022 17:31	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 17:31	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 17:31	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 17:31	WG1813448
trans-1,2-Dichloroethene	11.9		0.149	1.00	1	02/05/2022 17:31	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 17:31	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 17:31	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 17:31	WG1813448
Ethylbenzene	4.70		0.137	1.00	1	02/05/2022 17:31	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 17:31	WG1813448
Isopropylbenzene	0.893	J	0.105	1.00	1	02/05/2022 17:31	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 17:31	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 17:31	WG1813448
Methyl Cyclohexane	3.71		0.660	1.00	1	02/05/2022 17:31	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 17:31	WG1813448
4-Methyl-2-pentanone (MIBK)	0.952	J	0.478	10.0	1	02/05/2022 17:31	WG1813448
Methyl tert-butyl ether	127		0.101	1.00	1	02/05/2022 17:31	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 17:31	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 17:31	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 17:31	WG1813448
Toluene	0.320	J	0.278	1.00	1	02/05/2022 17:31	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 17:31	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 17:31	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 17:31	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 17:31	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 17:31	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 17:31	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 17:31	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 17:31	WG1813448
Xylenes, Total	1.38	J	0.174	3.00	1	02/05/2022 17:31	WG1813448
(S) Toluene-d8	98.0			80.0-120		02/05/2022 17:31	WG1813448
(S) 4-Bromofluorobenzene	101			77.0-126		02/05/2022 17:31	WG1813448
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/05/2022 17:31	WG1813448

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 15:30	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 15:30	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 15:30	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 15:30	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 15:30	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 15:30	WG1813448
Carbon disulfide	U		0.0962	1.00	1	02/05/2022 15:30	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 15:30	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 15:30	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 15:30	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 15:30	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 15:30	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 15:30	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 15:30	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 15:30	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 15:30	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 15:30	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 15:30	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 15:30	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 15:30	WG1813448
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2022 15:30	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 15:30	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 15:30	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 15:30	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 15:30	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 15:30	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 15:30	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 15:30	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 15:30	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 15:30	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 15:30	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 15:30	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 15:30	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 15:30	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 15:30	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 15:30	WG1813448
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2022 15:30	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 15:30	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 15:30	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 15:30	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 15:30	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 15:30	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 15:30	WG1813448
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 15:30	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 15:30	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 15:30	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 15:30	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 15:30	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 15:30	WG1813448
Xylenes, Total	U		0.174	3.00	1	02/05/2022 15:30	WG1813448
(S) Toluene-d8	98.6			80.0-120		02/05/2022 15:30	WG1813448
(S) 4-Bromofluorobenzene	99.5			77.0-126		02/05/2022 15:30	WG1813448
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		02/05/2022 15:30	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	02/09/2022 00:33	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	337000		8450	20000	1	02/06/2022 03:57	WG1813546

Sample Narrative:

L1458030-07 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	10700	T8	150	500	10	02/06/2022 11:14	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	91.6	J	50.0	100	1	02/22/2022 00:04	WG1819881

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	153000	T8	20000		1	02/06/2022 03:57	WG1813546

Sample Narrative:

L1458030-07 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:55	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	9970000		37900	100000	100	02/06/2022 22:46	WG1813740
Sulfate	1310000		59400	500000	100	02/06/2022 22:46	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5570		102	1000	1	02/08/2022 12:02	WG1814325

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5270		18.0	100	1	02/09/2022 00:33	WG1813769
Manganese	2120		0.934	10.0	1	02/09/2022 00:33	WG1813769
Sodium	4370000		2520	15000	5	02/09/2022 12:33	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		2.91	10.0	1	02/09/2022 16:26	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 16:26	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 16:26	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 17:52	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 17:52	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 17:52	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 17:52	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 17:52	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 17:52	WG1813448
Carbon disulfide	1.12		0.0962	1.00	1	02/05/2022 17:52	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 17:52	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 17:52	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 17:52	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 17:52	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 17:52	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 17:52	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 17:52	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 17:52	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 17:52	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 17:52	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 17:52	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 17:52	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 17:52	WG1813448
1,1-Dichloroethane	0.256	J	0.100	1.00	1	02/05/2022 17:52	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 17:52	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 17:52	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 17:52	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 17:52	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 17:52	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 17:52	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 17:52	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 17:52	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 17:52	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 17:52	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 17:52	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 17:52	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 17:52	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 17:52	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 17:52	WG1813448
Methyl tert-butyl ether	0.131	J	0.101	1.00	1	02/05/2022 17:52	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 17:52	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 17:52	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 17:52	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 17:52	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 17:52	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 17:52	WG1813448
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 17:52	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 17:52	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 17:52	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 17:52	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 17:52	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 17:52	WG1813448



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	02/05/2022 17:52	WG1813448
(S) Toluene-d8	98.6			80.0-120		02/05/2022 17:52	WG1813448
(S) 4-Bromofluorobenzene	98.3			77.0-126		02/05/2022 17:52	WG1813448
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/05/2022 17:52	WG1813448

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	52.2		15.0	50.0	1	02/09/2022 00:35	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	125000		8450	20000	1	02/06/2022 04:00	WG1813546

Sample Narrative:

L1458030-08 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	188	T8	15.0	50.0	1	02/06/2022 11:15	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1010		50.0	100	1	02/22/2022 00:06	WG1819881

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	J T8		20000	1	02/06/2022 04:00	WG1813546

Sample Narrative:

L1458030-08 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:55	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	157000		1900	5000	5	02/06/2022 22:58	WG1813740
Sulfate	228000		2970	25000	5	02/06/2022 22:58	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	24200		102	1000	1	02/08/2022 12:30	WG1814325

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	240	B	18.0	100	1	02/09/2022 00:35	WG1813769
Manganese	14.3		0.934	10.0	1	02/09/2022 00:35	WG1813769
Sodium	129000		504	3000	1	02/09/2022 00:35	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	805		2.91	10.0	1	02/09/2022 16:32	WG1815365
Ethane	5.09	J	4.07	13.0	1	02/09/2022 16:32	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 16:32	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 18:13	WG1813448
Benzene	U		0.0941	1.00	1	02/05/2022 18:13	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 18:13	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 18:13	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 18:13	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 18:13	WG1813448
Carbon disulfide	U		0.0962	1.00	1	02/05/2022 18:13	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 18:13	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 18:13	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 18:13	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 18:13	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 18:13	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 18:13	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 18:13	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 18:13	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 18:13	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 18:13	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 18:13	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 18:13	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 18:13	WG1813448
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2022 18:13	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 18:13	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 18:13	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 18:13	WG1813448
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2022 18:13	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 18:13	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 18:13	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 18:13	WG1813448
Ethylbenzene	U		0.137	1.00	1	02/05/2022 18:13	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 18:13	WG1813448
Isopropylbenzene	U		0.105	1.00	1	02/05/2022 18:13	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 18:13	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 18:13	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 18:13	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 18:13	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 18:13	WG1813448
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2022 18:13	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 18:13	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 18:13	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 18:13	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 18:13	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 18:13	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 18:13	WG1813448
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 18:13	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 18:13	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 18:13	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 18:13	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 18:13	WG1813448
Vinyl chloride	U		0.234	1.00	1	02/05/2022 18:13	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	02/05/2022 18:13	WG1813448
(S) Toluene-d8	98.2			80.0-120		02/05/2022 18:13	WG1813448
(S) 4-Bromofluorobenzene	98.6			77.0-126		02/05/2022 18:13	WG1813448
(S) 1,2-Dichloroethane-d4	99.8			70.0-130		02/05/2022 18:13	WG1813448

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	42.2	J	15.0	50.0	1	02/09/2022 00:38	WG1813769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	411000		8450	20000	1	02/06/2022 04:04	WG1813546

Sample Narrative:

L1458030-09 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	110	T8	15.0	50.0	1	02/06/2022 11:15	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	02/22/2022 00:07	WG1819881

Sample Narrative:

L1458030-09 WG1819881: Dilution due to sulfide interference.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	53800	T8	20000	1	02/06/2022 04:04	WG1813546

Sample Narrative:

L1458030-09 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:56	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2500000		37900	100000	100	02/06/2022 23:23	WG1813740
Sulfate	297000		5940	50000	10	02/06/2022 23:11	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	31800		510	5000	5	02/08/2022 12:48	WG1814325

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	152	B	18.0	100	1	02/09/2022 00:38	WG1813769
Manganese	15.9		0.934	10.0	1	02/09/2022 00:38	WG1813769

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1340000		2520	15000	5	02/09/2022 12:36	WG1813769

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1430		2.91	10.0	1	02/09/2022 16:36	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 16:36	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 16:36	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/05/2022 18:33	WG1813448
Benzene	4.30		0.0941	1.00	1	02/05/2022 18:33	WG1813448
Bromochloromethane	U		0.128	1.00	1	02/05/2022 18:33	WG1813448
Bromodichloromethane	U		0.136	1.00	1	02/05/2022 18:33	WG1813448
Bromoform	U		0.129	1.00	1	02/05/2022 18:33	WG1813448
Bromomethane	U	C3	0.605	5.00	1	02/05/2022 18:33	WG1813448
Carbon disulfide	0.625	J	0.0962	1.00	1	02/05/2022 18:33	WG1813448
Carbon tetrachloride	U		0.128	1.00	1	02/05/2022 18:33	WG1813448
Chlorobenzene	U		0.116	1.00	1	02/05/2022 18:33	WG1813448
Chlorodibromomethane	U		0.140	1.00	1	02/05/2022 18:33	WG1813448
Chloroethane	U		0.192	5.00	1	02/05/2022 18:33	WG1813448
Chloroform	U		0.111	5.00	1	02/05/2022 18:33	WG1813448
Chloromethane	U	J3	0.960	2.50	1	02/05/2022 18:33	WG1813448
Cyclohexane	U		0.188	1.00	1	02/05/2022 18:33	WG1813448
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2022 18:33	WG1813448
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2022 18:33	WG1813448
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2022 18:33	WG1813448
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2022 18:33	WG1813448
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2022 18:33	WG1813448
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2022 18:33	WG1813448
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2022 18:33	WG1813448
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2022 18:33	WG1813448
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2022 18:33	WG1813448
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2022 18:33	WG1813448
trans-1,2-Dichloroethene	0.670	J	0.149	1.00	1	02/05/2022 18:33	WG1813448
1,2-Dichloropropane	U	J4	0.149	1.00	1	02/05/2022 18:33	WG1813448
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2022 18:33	WG1813448
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2022 18:33	WG1813448
Ethylbenzene	0.657	J	0.137	1.00	1	02/05/2022 18:33	WG1813448
2-Hexanone	U		0.787	10.0	1	02/05/2022 18:33	WG1813448
Isopropylbenzene	0.281	J	0.105	1.00	1	02/05/2022 18:33	WG1813448
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2022 18:33	WG1813448
Methyl Acetate	U		1.29	20.0	1	02/05/2022 18:33	WG1813448
Methyl Cyclohexane	U		0.660	1.00	1	02/05/2022 18:33	WG1813448
Methylene Chloride	U		0.430	5.00	1	02/05/2022 18:33	WG1813448
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2022 18:33	WG1813448
Methyl tert-butyl ether	69.0		0.101	1.00	1	02/05/2022 18:33	WG1813448
Styrene	U		0.118	1.00	1	02/05/2022 18:33	WG1813448
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2022 18:33	WG1813448
Tetrachloroethene	U		0.300	1.00	1	02/05/2022 18:33	WG1813448
Toluene	U		0.278	1.00	1	02/05/2022 18:33	WG1813448
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2022 18:33	WG1813448
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2022 18:33	WG1813448

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2022 18:33	WG1813448
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2022 18:33	WG1813448
Trichloroethene	U		0.190	1.00	1	02/05/2022 18:33	WG1813448
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2022 18:33	WG1813448
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2022 18:33	WG1813448
Vinyl chloride	2.66		0.234	1.00	1	02/05/2022 18:33	WG1813448
Xylenes, Total	1.13	J	0.174	3.00	1	02/05/2022 18:33	WG1813448
(S) Toluene-d8	97.8			80.0-120		02/05/2022 18:33	WG1813448
(S) 4-Bromofluorobenzene	99.6			77.0-126		02/05/2022 18:33	WG1813448
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/05/2022 18:33	WG1813448

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		250	500	5	02/22/2022 00:08	WG1819881

Sample Narrative:

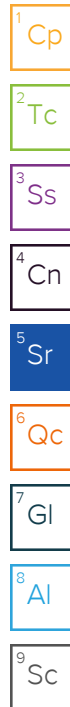
L1458030-10 WG1819881: Dilution due to color.

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1630		2.91	10.0	1	02/09/2022 16:46	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 16:46	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 16:46	WG1815365

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	17.3	J	11.3	50.0	1	02/06/2022 11:55	WG1813590
Benzene	7.11		0.0941	1.00	1	02/06/2022 11:55	WG1813590
Bromochloromethane	U		0.128	1.00	1	02/06/2022 11:55	WG1813590
Bromodichloromethane	U		0.136	1.00	1	02/06/2022 11:55	WG1813590
Bromoform	U		0.129	1.00	1	02/06/2022 11:55	WG1813590
Bromomethane	U		0.605	5.00	1	02/06/2022 11:55	WG1813590
Carbon disulfide	1.21		0.0962	1.00	1	02/06/2022 11:55	WG1813590
Carbon tetrachloride	U		0.128	1.00	1	02/06/2022 11:55	WG1813590
Chlorobenzene	U		0.116	1.00	1	02/06/2022 11:55	WG1813590
Chlorodibromomethane	U		0.140	1.00	1	02/06/2022 11:55	WG1813590
Chloroethane	U		0.192	5.00	1	02/06/2022 11:55	WG1813590
Chloroform	U		0.111	5.00	1	02/06/2022 11:55	WG1813590
Chloromethane	U		0.960	2.50	1	02/06/2022 11:55	WG1813590
Cyclohexane	2.95		0.188	1.00	1	02/06/2022 11:55	WG1813590
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/06/2022 11:55	WG1813590
1,2-Dibromoethane	U		0.126	1.00	1	02/06/2022 11:55	WG1813590
1,2-Dichlorobenzene	U		0.107	1.00	1	02/06/2022 11:55	WG1813590
1,3-Dichlorobenzene	U		0.110	1.00	1	02/06/2022 11:55	WG1813590
1,4-Dichlorobenzene	U		0.120	1.00	1	02/06/2022 11:55	WG1813590
Dichlorodifluoromethane	U		0.374	5.00	1	02/06/2022 11:55	WG1813590
1,1-Dichloroethane	U		0.100	1.00	1	02/06/2022 11:55	WG1813590
1,2-Dichloroethane	U		0.0819	1.00	1	02/06/2022 11:55	WG1813590
1,1-Dichloroethene	U		0.188	1.00	1	02/06/2022 11:55	WG1813590
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/06/2022 11:55	WG1813590
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/06/2022 11:55	WG1813590
1,2-Dichloropropane	U		0.149	1.00	1	02/06/2022 11:55	WG1813590
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/06/2022 11:55	WG1813590
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/06/2022 11:55	WG1813590
Ethylbenzene	0.658	J	0.137	1.00	1	02/06/2022 11:55	WG1813590
2-Hexanone	U		0.787	10.0	1	02/06/2022 11:55	WG1813590
Isopropylbenzene	3.09		0.105	1.00	1	02/06/2022 11:55	WG1813590
2-Butanone (MEK)	6.33	J	1.19	10.0	1	02/06/2022 11:55	WG1813590
Methyl Acetate	U		1.29	20.0	1	02/06/2022 11:55	WG1813590
Methyl Cyclohexane	2.86		0.660	1.00	1	02/06/2022 11:55	WG1813590
Methylene Chloride	U		0.430	5.00	1	02/06/2022 11:55	WG1813590
4-Methyl-2-pentanone (MIBK)	1.05	J	0.478	10.0	1	02/06/2022 11:55	WG1813590
Methyl tert-butyl ether	0.870	J	0.101	1.00	1	02/06/2022 11:55	WG1813590
Styrene	U		0.118	1.00	1	02/06/2022 11:55	WG1813590
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/06/2022 11:55	WG1813590
Tetrachloroethene	U		0.300	1.00	1	02/06/2022 11:55	WG1813590



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Toluene	1.87		0.278	1.00	1	02/06/2022 11:55	WG1813590
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/06/2022 11:55	WG1813590
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/06/2022 11:55	WG1813590
1,1,1-Trichloroethane	U		0.149	1.00	1	02/06/2022 11:55	WG1813590
1,1,2-Trichloroethane	U		0.158	1.00	1	02/06/2022 11:55	WG1813590
Trichloroethene	U		0.190	1.00	1	02/06/2022 11:55	WG1813590
Trichlorofluoromethane	U		0.160	5.00	1	02/06/2022 11:55	WG1813590
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/06/2022 11:55	WG1813590
Vinyl chloride	U		0.234	1.00	1	02/06/2022 11:55	WG1813590
Xylenes, Total	3.73		0.174	3.00	1	02/06/2022 11:55	WG1813590
(S) Toluene-d8	99.4			80.0-120		02/06/2022 11:55	WG1813590
(S) 4-Bromofluorobenzene	99.4			77.0-126		02/06/2022 11:55	WG1813590
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/06/2022 11:55	WG1813590

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	02/09/2022 10:23	WG1813773

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		8450	20000	1	02/06/2022 04:08	WG1813546

Sample Narrative:

L1458030-11 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	U	T8	15.0	50.0	1	02/06/2022 11:15	WG1813576

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	02/22/2022 00:09	WG1819881

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	02/06/2022 04:08	WG1813546

Sample Narrative:

L1458030-11 WG1813546: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	02/06/2022 11:56	WG1813575

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		379	1000	1	02/06/2022 23:36	WG1813740
Sulfate	U		594	5000	1	02/06/2022 23:36	WG1813740

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	351	B J	102	1000	1	02/08/2022 13:03	WG1814325

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		18.0	100	1	02/09/2022 10:23	WG1813773
Manganese	U		0.934	10.0	1	02/09/2022 10:23	WG1813773
Sodium	U		504	3000	1	02/09/2022 10:23	WG1813773

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		2.91	10.0	1	02/09/2022 16:49	WG1815365
Ethane	U		4.07	13.0	1	02/09/2022 16:49	WG1815365
Ethene	U		4.26	13.0	1	02/09/2022 16:49	WG1815365

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/06/2022 11:34	WG1813590
Benzene	U		0.0941	1.00	1	02/06/2022 11:34	WG1813590
Bromochloromethane	U		0.128	1.00	1	02/06/2022 11:34	WG1813590
Bromodichloromethane	U		0.136	1.00	1	02/06/2022 11:34	WG1813590
Bromoform	U		0.129	1.00	1	02/06/2022 11:34	WG1813590
Bromomethane	U		0.605	5.00	1	02/06/2022 11:34	WG1813590
Carbon disulfide	U		0.0962	1.00	1	02/06/2022 11:34	WG1813590
Carbon tetrachloride	U		0.128	1.00	1	02/06/2022 11:34	WG1813590
Chlorobenzene	U		0.116	1.00	1	02/06/2022 11:34	WG1813590
Chlorodibromomethane	U		0.140	1.00	1	02/06/2022 11:34	WG1813590
Chloroethane	U		0.192	5.00	1	02/06/2022 11:34	WG1813590
Chloroform	U		0.111	5.00	1	02/06/2022 11:34	WG1813590
Chloromethane	U		0.960	2.50	1	02/06/2022 11:34	WG1813590
Cyclohexane	U		0.188	1.00	1	02/06/2022 11:34	WG1813590
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/06/2022 11:34	WG1813590
1,2-Dibromoethane	U		0.126	1.00	1	02/06/2022 11:34	WG1813590
1,2-Dichlorobenzene	U		0.107	1.00	1	02/06/2022 11:34	WG1813590
1,3-Dichlorobenzene	U		0.110	1.00	1	02/06/2022 11:34	WG1813590
1,4-Dichlorobenzene	U		0.120	1.00	1	02/06/2022 11:34	WG1813590
Dichlorodifluoromethane	U		0.374	5.00	1	02/06/2022 11:34	WG1813590
1,1-Dichloroethane	U		0.100	1.00	1	02/06/2022 11:34	WG1813590
1,2-Dichloroethane	U		0.0819	1.00	1	02/06/2022 11:34	WG1813590
1,1-Dichloroethene	U		0.188	1.00	1	02/06/2022 11:34	WG1813590
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/06/2022 11:34	WG1813590
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/06/2022 11:34	WG1813590
1,2-Dichloropropane	U		0.149	1.00	1	02/06/2022 11:34	WG1813590
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/06/2022 11:34	WG1813590
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/06/2022 11:34	WG1813590
Ethylbenzene	U		0.137	1.00	1	02/06/2022 11:34	WG1813590
2-Hexanone	U		0.787	10.0	1	02/06/2022 11:34	WG1813590
Isopropylbenzene	U		0.105	1.00	1	02/06/2022 11:34	WG1813590
2-Butanone (MEK)	U		1.19	10.0	1	02/06/2022 11:34	WG1813590
Methyl Acetate	U		1.29	20.0	1	02/06/2022 11:34	WG1813590
Methyl Cyclohexane	U		0.660	1.00	1	02/06/2022 11:34	WG1813590
Methylene Chloride	U		0.430	5.00	1	02/06/2022 11:34	WG1813590
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/06/2022 11:34	WG1813590
Methyl tert-butyl ether	U		0.101	1.00	1	02/06/2022 11:34	WG1813590
Styrene	U		0.118	1.00	1	02/06/2022 11:34	WG1813590
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/06/2022 11:34	WG1813590
Tetrachloroethene	U		0.300	1.00	1	02/06/2022 11:34	WG1813590
Toluene	U		0.278	1.00	1	02/06/2022 11:34	WG1813590
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/06/2022 11:34	WG1813590
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/06/2022 11:34	WG1813590
1,1,1-Trichloroethane	U		0.149	1.00	1	02/06/2022 11:34	WG1813590
1,1,2-Trichloroethane	U		0.158	1.00	1	02/06/2022 11:34	WG1813590
Trichloroethene	0.442	U	0.190	1.00	1	02/06/2022 11:34	WG1813590
Trichlorofluoromethane	U		0.160	5.00	1	02/06/2022 11:34	WG1813590
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/06/2022 11:34	WG1813590
Vinyl chloride	U		0.234	1.00	1	02/06/2022 11:34	WG1813590



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	02/06/2022 11:34	WG1813590
(S) Toluene-d8	101			80.0-120		02/06/2022 11:34	WG1813590
(S) 4-Bromofluorobenzene	91.9			77.0-126		02/06/2022 11:34	WG1813590
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/06/2022 11:34	WG1813590

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3757339-2 02/06/22 02:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		8450	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1457615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457615-02 02/06/22 02:31 • (DUP) R3757339-4 02/06/22 02:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	293000	294000	1	0.408		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1458030-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-01 02/06/22 03:28 • (DUP) R3757339-6 02/06/22 03:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	333000	334000	1	0.0961		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3757339-1 02/06/22 02:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	99800	99.8	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3757354-1 02/06/22 11:06

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ferrous Iron	U		15.0	50.0

L1457896-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1457896-03 02/06/22 11:07 • (DUP) R3757354-3 02/06/22 11:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	573	568	1	0.876		20

L1458030-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-03 02/06/22 11:13 • (DUP) R3757354-6 02/06/22 11:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	4620	4560	2	1.50		20

Laboratory Control Sample (LCS)

(LCS) R3757354-2 02/06/22 11:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	1050	105	85.0-115	

L1457978-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457978-08 02/06/22 11:11 • (MS) R3757354-4 02/06/22 11:11 • (MSD) R3757354-5 02/06/22 11:11

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ferrous Iron	1000	548	1540	1520	98.9	97.1	1	80.0-120			1.18	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3760878-1 02/17/22 03:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1458912-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458912-01 02/17/22 03:37 • (DUP) R3760878-3 02/17/22 03:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	177	159	1	10.7		20

L1460744-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1460744-01 02/17/22 04:00 • (DUP) R3760878-5 02/17/22 04:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	7850	8000	5	1.89		20

Laboratory Control Sample (LCS)

(LCS) R3760878-2 02/17/22 03:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2570	103	90.0-110	

L1458912-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1458912-01 02/17/22 03:37 • (MS) R3760878-4 02/17/22 03:43

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	177	2830	106	1	90.0-110	

L1460744-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1460744-01 02/17/22 04:00 • (MS) R3760878-6 02/17/22 04:02 • (MSD) R3760878-7 02/17/22 04:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	7850	10500	10400	106	104	5	90.0-110			0.477	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3762254-1 02/21/22 23:49

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1457824-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1457824-01 02/21/22 23:53 • (DUP) R3762254-3 02/21/22 23:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	725	718	1	0.970		20

L1458568-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458568-01 02/22/22 00:22 • (DUP) R3762254-6 02/22/22 00:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	360	379	1	5.14		20

Laboratory Control Sample (LCS)

(LCS) R3762254-2 02/21/22 23:50

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2570	103	90.0-110	

L1457824-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457824-01 02/21/22 23:53 • (MS) R3762254-4 02/21/22 23:55 • (MSD) R3762254-5 02/21/22 23:57

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	725	3310	3400	103	107	1	90.0-110			2.68	20

L1458568-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1458568-01 02/22/22 00:22 • (MS) R3762254-7 02/22/22 00:25

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	360	2990	105	1	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3757339-3 02/06/22 02:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Free Carbon Dioxide	U		6670	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1457615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1457615-02 02/06/22 02:31 • (DUP) R3757339-5 02/06/22 02:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	24200	23300	1	3.63		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1458030-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-01 02/06/22 03:28 • (DUP) R3757339-7 02/06/22 03:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	134000	129000	1	3.47		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3757363-1 02/06/22 11:50

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.0	50.0

L1458030-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-11 02/06/22 11:56 • (DUP) R3757363-3 02/06/22 11:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

L1458076-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458076-01 02/06/22 11:57 • (DUP) R3757363-4 02/06/22 11:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3757363-2 02/06/22 11:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	486	97.2	85.0-115	

L1458076-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458076-02 02/06/22 11:58 • (MS) R3757363-5 02/06/22 12:00 • (MSD) R3757363-6 02/06/22 12:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	279	280	55.8	56.0	1	80.0-120	J6	J6	0.358	20

Sample Narrative:

- MS: Matrix spike failure due to matrix interference.
- MSD: Matrix spike failure due to matrix interference.



Method Blank (MB)

(MB) R3757972-1 02/06/22 17:48

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Sulfate	U		594	5000

L1458173-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1458173-05 02/07/22 01:15 • (DUP) R3757972-6 02/07/22 01:28

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	4360	4240	1	2.97		15
Sulfate	5160	4870	1	5.71	J	15

Laboratory Control Sample (LCS)

(LCS) R3757972-2 02/06/22 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40100	100	80.0-120	
Sulfate	40000	42600	106	80.0-120	

L1458173-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1458173-05 02/07/22 01:15 • (MS) R3757972-7 02/07/22 01:40

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>
Analyte	ug/l	ug/l	ug/l	%		%	
Chloride	50000	4360	53000	97.2	1	80.0-120	
Sulfate	50000	5160	55800	101	1	80.0-120	

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3757827-2 02/07/22 10:48

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	243	⬇	102	1000

L1457901-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1457901-19 02/07/22 17:39 • (DUP) R3757827-5 02/07/22 17:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	4590	4620	1	0.695		20

L1458030-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-02 02/08/22 00:01 • (DUP) R3757827-8 02/08/22 00:26

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	7000	7510	1	7.13		20

Laboratory Control Sample (LCS)

(LCS) R3757827-1 02/07/22 10:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	77700	104	85.0-115	

L1457811-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457811-10 02/07/22 16:30 • (MS) R3757827-3 02/07/22 16:55 • (MSD) R3757827-4 02/07/22 17:26

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	21500	60300	61100	77.5	79.1	1	80.0-120	J6	J6	1.33	20

L1457905-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457905-06 02/07/22 19:48 • (MS) R3757827-6 02/07/22 20:13 • (MSD) R3757827-7 02/07/22 20:38

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	8260	59900	59300	103	102	1	80.0-120			1.09	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3758241-2 02/08/22 09:54

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	267	⬇	102	1000

L1458055-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1458055-04 02/08/22 15:56 • (DUP) R3758241-5 02/08/22 16:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	5280	5090	1	3.59		20

L1458167-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1458167-05 02/08/22 20:08 • (DUP) R3758241-8 02/08/22 20:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	4630	4580	1	0.978		20

Laboratory Control Sample (LCS)

(LCS) R3758241-1 02/08/22 09:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	77600	103	85.0-115	

L1458055-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458055-02 02/08/22 13:49 • (MS) R3758241-3 02/08/22 14:16 • (MSD) R3758241-4 02/08/22 15:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	7070	60700	61900	107	110	1	80.0-120			2.04	20

L1458167-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458167-04 02/08/22 19:01 • (MS) R3758241-6 02/08/22 19:23 • (MSD) R3758241-7 02/08/22 19:51

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	5130	58600	58300	107	106	1	80.0-120			0.462	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3758238-1 02/08/22 23:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	26.8	⬇	18.0	100
Manganese	U		0.934	10.0
Sodium	U		504	3000

Laboratory Control Sample (LCS)

(LCS) R3758238-2 02/08/22 23:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9840	98.4	80.0-120	
Manganese	1000	986	98.6	80.0-120	
Sodium	10000	10100	101	80.0-120	

L1457802-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457802-03 02/08/22 23:28 • (MS) R3758238-4 02/08/22 23:33 • (MSD) R3758238-5 02/08/22 23:36

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 %
Iron	10000	221	9880	9880	96.6	96.6	1	75.0-125			0.0430	20
Sodium	10000	78600	85400	85400	67.9	67.8	1	75.0-125	⬇	⬇	0.00960	20

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Method Blank (MB)

(MB) R3758627-1 02/09/22 10:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		18.0	100
Manganese	U		0.934	10.0
Sodium	U		504	3000

Laboratory Control Sample (LCS)

(LCS) R3758627-2 02/09/22 10:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9450	94.5	80.0-120	
Manganese	1000	888	88.8	80.0-120	
Sodium	10000	9520	95.2	80.0-120	

L1458169-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458169-01 02/09/22 10:12 • (MS) R3758627-4 02/09/22 10:17 • (MSD) R3758627-5 02/09/22 10:20

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 %
Iron	10000	6350	15900	16000	95.7	96.1	1	75.0-125			0.215	20
Manganese	1000	1070	1930	1930	86.0	85.5	1	75.0-125			0.237	20
Sodium	10000	77600	86100	85700	85.4	81.3	1	75.0-125			0.475	20

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Method Blank (MB)

(MB) R3758582-2 02/09/22 13:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1458030-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458030-01 02/09/22 15:40 • (DUP) R3758582-3 02/09/22 15:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Methane	104	113	1	8.29	20
Ethane	U	U	1	0.000	20
Ethene	U	U	1	0.000	20

L1458891-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1458891-05 02/09/22 16:52 • (DUP) R3758582-4 02/09/22 16:55

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Methane	U	U	1	0.000	20
Ethane	U	U	1	0.000	20
Ethene	U	U	1	0.000	20

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

(LCS) R3758582-1 02/09/22 13:53 • (LCSD) R3758582-5 02/09/22 16:58

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 %
Methane	67.8	69.3	65.9	102	97.2	85.0-115			5.03	20
Ethane	129	122	120	94.6	93.0	85.0-115			1.65	20
Ethene	127	123	121	96.9	95.3	85.0-115			1.64	20

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Cp

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Tc

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Qc

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Al

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Sc

Method Blank (MB)

(MB) R3757593-2 02/05/22 13:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3757593-2 02/05/22 13:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	100			80.0-120
(S) 4-Bromofluorobenzene	98.6			77.0-126
(S) 1,2-Dichloroethane-d4	99.9			70.0-130

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

(LCS) R3757593-1 02/05/22 11:24 • (LCSD) R3757593-3 02/05/22 14:48

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 %
Acetone	25.0	39.7	41.3	159	165	19.0-160		J4	3.95	27
Benzene	5.00	5.38	5.09	108	102	70.0-123			5.54	20
Bromodichloromethane	5.00	5.82	5.23	116	105	75.0-120			10.7	20
Bromochloromethane	5.00	5.55	5.42	111	108	76.0-122			2.37	20
Bromoform	5.00	5.10	4.54	102	90.8	68.0-132			11.6	20
Bromomethane	5.00	3.67	4.69	73.4	93.8	10.0-160			24.4	25
Carbon disulfide	5.00	5.45	5.38	109	108	61.0-128			1.29	20
Carbon tetrachloride	5.00	5.98	5.45	120	109	68.0-126			9.27	20
Chlorobenzene	5.00	4.95	4.39	99.0	87.8	80.0-121			12.0	20
Chlorodibromomethane	5.00	5.30	4.90	106	98.0	77.0-125			7.84	20
Chloroethane	5.00	6.09	5.19	122	104	47.0-150			16.0	20
Chloroform	5.00	5.66	5.56	113	111	73.0-120			1.78	20
Chloromethane	5.00	5.86	4.75	117	95.0	41.0-142		J3	20.9	20
Cyclohexane	5.00	5.70	5.20	114	104	71.0-124			9.17	20
1,2-Dibromo-3-Chloropropane	5.00	5.12	4.78	102	95.6	58.0-134			6.87	20
1,2-Dibromoethane	5.00	5.08	4.62	102	92.4	80.0-122			9.48	20
1,2-Dichlorobenzene	5.00	4.72	4.26	94.4	85.2	79.0-121			10.2	20
1,3-Dichlorobenzene	5.00	4.92	4.16	98.4	83.2	79.0-120			16.7	20
1,4-Dichlorobenzene	5.00	4.95	4.31	99.0	86.2	79.0-120			13.8	20
Dichlorodifluoromethane	5.00	5.37	5.05	107	101	51.0-149			6.14	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3757593-1 02/05/22 11:24 • (LCSD) R3757593-3 02/05/22 14:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,1-Dichloroethane	5.00	5.62	5.12	112	102	70.0-126			9.31	20
1,2-Dichloroethane	5.00	5.69	5.26	114	105	70.0-128			7.85	20
1,1-Dichloroethene	5.00	5.58	5.37	112	107	71.0-124			3.84	20
cis-1,2-Dichloroethene	5.00	5.48	5.15	110	103	73.0-120			6.21	20
trans-1,2-Dichloroethene	5.00	5.47	5.27	109	105	73.0-120			3.72	20
1,2-Dichloropropane	5.00	6.58	5.75	132	115	77.0-125	J4		13.5	20
cis-1,3-Dichloropropene	5.00	6.00	5.34	120	107	80.0-123			11.6	20
trans-1,3-Dichloropropene	5.00	5.10	4.66	102	93.2	78.0-124			9.02	20
Ethylbenzene	5.00	4.82	4.31	96.4	86.2	79.0-123			11.2	20
2-Hexanone	25.0	27.9	26.8	112	107	67.0-149			4.02	20
Isopropylbenzene	5.00	4.88	4.28	97.6	85.6	76.0-127			13.1	20
2-Butanone (MEK)	25.0	35.3	33.6	141	134	44.0-160			4.93	20
Methyl Acetate	25.0	32.4	30.9	130	124	57.0-148			4.74	20
Methyl Cyclohexane	5.00	5.48	5.18	110	104	68.0-126			5.63	20
Methylene Chloride	5.00	5.87	5.67	117	113	67.0-120			3.47	20
4-Methyl-2-pentanone (MIBK)	25.0	28.0	26.6	112	106	68.0-142			5.13	20
Methyl tert-butyl ether	5.00	5.71	5.48	114	110	68.0-125			4.11	20
Styrene	5.00	4.35	3.72	87.0	74.4	73.0-130			15.6	20
1,1,2,2-Tetrachloroethane	5.00	4.78	4.43	95.6	88.6	65.0-130			7.60	20
Tetrachloroethene	5.00	4.94	4.37	98.8	87.4	72.0-132			12.2	20
Toluene	5.00	4.72	4.47	94.4	89.4	79.0-120			5.44	20
1,1,2-Trichlorotrifluoroethane	5.00	5.54	4.86	111	97.2	69.0-132			13.1	20
1,2,3-Trichlorobenzene	5.00	4.24	4.77	84.8	95.4	50.0-138			11.8	20
1,2,4-Trichlorobenzene	5.00	4.30	4.78	86.0	95.6	57.0-137			10.6	20
1,1,1-Trichloroethane	5.00	5.54	5.36	111	107	73.0-124			3.30	20
1,1,2-Trichloroethane	5.00	5.00	4.56	100	91.2	80.0-120			9.21	20
Trichloroethene	5.00	5.87	5.32	117	106	78.0-124			9.83	20
Trichlorofluoromethane	5.00	4.89	5.22	97.8	104	59.0-147			6.53	20
Vinyl chloride	5.00	5.24	4.67	105	93.4	67.0-131			11.5	20
Xylenes, Total	15.0	14.4	12.8	96.0	85.3	79.0-123			11.8	20
(S) Toluene-d8				97.4	95.9	80.0-120				
(S) 4-Bromofluorobenzene				100	99.8	77.0-126				
(S) 1,2-Dichloroethane-d4				101	101	70.0-130				

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3757610-2 02/06/22 10:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

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Cp

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Ss

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Cn

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Al

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Sc

Method Blank (MB)

(MB) R3757610-2 02/06/22 10:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	94.5			77.0-126
(S) 1,2-Dichloroethane-d4	121			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3757610-1 02/06/22 09:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	34.7	139	19.0-160	
Benzene	5.00	4.79	95.8	70.0-123	
Bromodichloromethane	5.00	5.89	118	75.0-120	
Bromochloromethane	5.00	5.62	112	76.0-122	
Bromoform	5.00	5.70	114	68.0-132	
Bromomethane	5.00	4.60	92.0	10.0-160	
Carbon disulfide	5.00	4.34	86.8	61.0-128	
Carbon tetrachloride	5.00	5.24	105	68.0-126	
Chlorobenzene	5.00	5.24	105	80.0-121	
Chlorodibromomethane	5.00	5.57	111	77.0-125	
Chloroethane	5.00	4.87	97.4	47.0-150	
Chloroform	5.00	5.83	117	73.0-120	
Chloromethane	5.00	5.20	104	41.0-142	
Cyclohexane	5.00	4.28	85.6	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	6.66	133	58.0-134	
1,2-Dibromoethane	5.00	5.28	106	80.0-122	
1,2-Dichlorobenzene	5.00	5.61	112	79.0-121	
1,3-Dichlorobenzene	5.00	5.48	110	79.0-120	
1,4-Dichlorobenzene	5.00	5.31	106	79.0-120	
Dichlorodifluoromethane	5.00	4.42	88.4	51.0-149	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3757610-1 02/06/22 09:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,1-Dichloroethane	5.00	5.22	104	70.0-126	
1,2-Dichloroethane	5.00	5.92	118	70.0-128	
1,1-Dichloroethene	5.00	4.46	89.2	71.0-124	
cis-1,2-Dichloroethene	5.00	4.88	97.6	73.0-120	
trans-1,2-Dichloroethene	5.00	4.95	99.0	73.0-120	
1,2-Dichloropropane	5.00	5.55	111	77.0-125	
cis-1,3-Dichloropropene	5.00	5.69	114	80.0-123	
trans-1,3-Dichloropropene	5.00	5.52	110	78.0-124	
Ethylbenzene	5.00	4.81	96.2	79.0-123	
2-Hexanone	25.0	26.3	105	67.0-149	
Isopropylbenzene	5.00	4.84	96.8	76.0-127	
2-Butanone (MEK)	25.0	32.6	130	44.0-160	
Methyl Acetate	25.0	31.1	124	57.0-148	
Methyl Cyclohexane	5.00	4.27	85.4	68.0-126	
Methylene Chloride	5.00	5.32	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	30.7	123	68.0-142	
Methyl tert-butyl ether	5.00	6.00	120	68.0-125	
Styrene	5.00	4.41	88.2	73.0-130	
1,1,2,2-Tetrachloroethane	5.00	5.42	108	65.0-130	
Tetrachloroethene	5.00	5.00	100	72.0-132	
Toluene	5.00	5.05	101	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.63	92.6	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.51	90.2	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.97	99.4	57.0-137	
1,1,1-Trichloroethane	5.00	5.50	110	73.0-124	
1,1,2-Trichloroethane	5.00	5.52	110	80.0-120	
Trichloroethene	5.00	5.14	103	78.0-124	
Trichlorofluoromethane	5.00	4.93	98.6	59.0-147	
Vinyl chloride	5.00	4.38	87.6	67.0-131	
Xylenes, Total	15.0	14.6	97.3	79.0-123	
(S) Toluene-d8			100	80.0-120	
(S) 4-Bromofluorobenzene			99.2	77.0-126	
(S) 1,2-Dichloroethane-d4			118	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

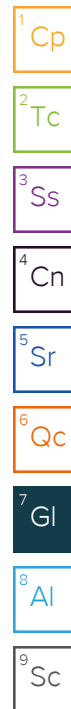
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	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
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

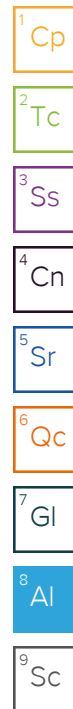
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
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	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
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

* 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 Analytical.



Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 3	
				Report to: Ryan Merrell				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.com													
Project Description: POD 4 - Oceanside 6518040				City/State Collected: Oceanside, NY		Please Circle: PT MT CT ET															
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040																	
Collected by (print): Avidana Bell		Site/Facility ID # 6518040		P.O. #																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																	
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed Standard TAT		No. of Cntrs															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time															
MW-27-D2-W-2202 <u>02</u>		G	GW		02/02/22	2230	11	X	X	X	X	X	X	X	X	X					
MW-28-D2R-W-2202 <u>02</u>		G	GW		02/02/22	1905	11	X	X	X	X	X	X	X	X	X					
MW-24-D2-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
MW-24-VDR-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-15-VD-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-7R-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
AMW-14-VD-W-2202 <u>02</u>		G	GW		02/02/22	2200	11	X	X	X	X	X	X	X	X	X	-02				
AMW-14-D2-W-2202 <u>02</u>		G	GW		02/02/22	2130	11	X	X	X	X	X	X	X	X	X	-03				
MW-28-D1-W-2202 <u>02</u>		G	GW		02/02/22	1900	11	X	X	X	X	X	X	X	X	X	-08				
MW-26-D2-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: 5489 4020 8058 NS474.15-0=4.1				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ N COC Signed/Accurate: ☒ ☐ N Bottles arrive intact: ☒ ☐ N Correct bottles used: ☒ ☐ N Sufficient volume sent: ☒ ☐ N If Applicable VOA Zero Headspace: ☒ ☐ N Preservation Correct/Checked: ☒ ☐ N RAD Screen <0.5 mR/hr: ☒ ☐ N											
Relinquished by: (Signature) 		Date: 02/03/22		Time: 1415		Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐ HCL/MeOH TBR													
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: NS47°C 3.0±0.3 55		Bottles Received:		If preservation required by Login: Date/Time									
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 2-5-22		Time: 10 ⁰⁰		Hold:		Condition: NSF OK							

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Ryan Merrell				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page 2 of 3	
				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.														 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf	
Project Description: POD 4 - Oceanside 6518040				City/State Collected: Oceanside, NY		Please Circle: PT MT CT ET													
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040															
Collected by (print): Aridana Bell		Site/Facility ID # 6518040		P.O. #															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #															
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed Standard TAT		No. of Cntrs													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time													
MW-23-D2R-W-2202			GW				11	X	X	X	X	X	X	X	X				
AMW-15-D2-W-2202			GW				11	X	X	X	X	X	X	X	X				
AMW-15-D3-W-2202			GW				11	X	X	X	X	X	X	X	X				
MW-23-D1R-W-2202			GW				11	X	X	X	X	X	X	X	X				
AMW-15-D1-W-2202			GW				11	X	X	X	X	X	X	X	X				
MW-27-D1R-W-2202 02		G	GW		02/02/22	2250	11	X	X	X	X	X	X	X	X		-04		
MW-26-D1-W-2202 02		G	GW		02/02/22	2045	11	X	X	X	X	X	X	X	X		-09		
MW-29-D1-W-2202		G	GW		02/02/22	2135	11	X	X	X	X	X	X	X	X				
AMW-14-D1-W-2202 02		G	GW		02/02/22	2135	11	X	X	X	X	X	X	X	X		-05		
MW-24-D1R-W-2202			GW				11	X	X	X	X	X	X	X	X				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		Samples returned via: ☐ UPS ☐ FedEx ☒ Courier		Tracking #										pH _____ Temp _____ Flow _____ Other _____			
Relinquished by : (Signature) 		Date: 02/03/22		Time: 1415		Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR								Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ N COC Signed/Accurate: ☒ ☐ N Bottles arrive intact: ☒ ☐ N Correct bottles used: ☒ ☐ N Sufficient volume sent: ☒ ☐ N If Applicable VOA Zero Headspace: ☒ ☐ N Preservation Correct/Checked: ☒ ☐ N RAD Screen <0.5 mR/hr: ☒ ☐ N			
Relinquished by : (Signature)		Date:		Time:		Received by: (Signature)		Temp: 13.4°C Bottles Received:								If preservation required by Login: Date/Time			
Relinquished by : (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 2-5-22 Time: 1000								Hold: Condition: NCF ☒ OK ☐			

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Ryan Merrell Project Description: POD 4 - Oceanside 6518040				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129 Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 5 of 3 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf	
City/State Collected: Oceanside, NY Please Circle: PT MT CT ET				ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres FEICP,MNICP,NAICP 250mlHDPE-HNO3 FERUSFE,FERICFE 250mlAmb-HCl NO2NO3 250mlHDPE-H2SO4 RSK175 40mlAmb HCl SULFIDE 250mlAmb-S-NaOH+ZnAc TOC 250mlHDPE-HCl V8260TCLC 40mlAmb-HCl V8260TCLC-TripBlank 40mlAmb-HCl-Blk																	
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040																	
Collected by (print): Avidana Bell		Site/Facility ID # 6518040		P.O. #																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																	
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed Standard TAT		No. of Cntrs																	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time															
MW-18R-W-2202 02		G	GW		02/02/22	1945	11	X	X	X	X	X	X	X	X	X	Only RSK175, V8260TCLC, NO2NO3 -10				
BD-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
FB-W-2202 03		G	GW		02/03/22	0015	11	X	X	X	X	X	X	X	X	X	-11				
FB-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
FB-W-2202			GW				11	X	X	X	X	X	X	X	X	X					
			GW				11	X	X	X	X	X	X	X	X	X					
			GW				11	X	X	X	X	X	X	X	X	X					
TB-W-2202 03			GW		02/03/22	-	1										X	-06			
TB-W-2202			GW				1										X				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Samples returned via: ☐ UPS ☐ FedEx ☒ Courier						Tracking #						pH _____ Temp _____ Flow _____ Other _____							
Relinquished by: (Signature) 		Date: 02/03/22		Time: 1945		Received by: (Signature) 		Trip Blank Received: Yes / No HCL / MeOH TBR						Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ N COC Signed/Accurate: ☒ N ☐ N Bottles arrive intact: ☒ N ☐ N Correct bottles used: ☒ N ☐ N Sufficient volume sent: ☒ N ☐ N If Applicable VOA Zero Headspace: ☒ N ☐ N Preservation Correct/Checked: ☒ N ☐ N RAD Screen <0.5 mR/hr: ☒ N ☐ N							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: NSAT °C 3.0 ± 0.30						Bottles Received:						If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 2-5-22 Time: 1000						Hold:						Condition: ☒ NCF ☒ OK	