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Subject:
Third Quarter 2020 Groundwater Monitoring Report
Chevron Facility #6518040
Former Gulf Oil Terminal
3705 Hampton Road, Oceanside, New York
NYSDEC Site #130165

ENVIRONMENT

Date:
November 19, 2020

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Dear Mr. Scharf:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis of New York, Inc. (Arcadis) has prepared this Third Quarter 2020 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 August 18, 19, and 20, 2020 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 August 18, 2020, 35 monitoring wells (AMW-3, AMW-7R, 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-D1R, MW-27-D2, 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 with a water interface probe.

Monitoring wells were gauged during high tide at the site on August 18, 2020. Measured depth-to-groundwater in the D1 horizon ranged from 2.42 feet below top of inner casing (btic) in MW-29-D1 to 7.13 feet btic in OW-2-D1. Measured

depth-to-groundwater in the D2 horizon ranged from 2.59 feet btlc in MW-29-D2 to 7.71 feet btlc in MW-23-D2R. Measured depth-to-groundwater in the VD horizon ranged from 2.03 feet btlc in MW-29-VD to 7.02 feet btlc 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 northeast and south, the D2 horizon is to the northeast, and for the VD horizon to the northwest. The well gauging data is summarized in **Table 1** and illustrated on **Figures 3, 4, and 5**.

GROUNDWATER SAMPLING

On August 19 and 20, 2020, groundwater samples were collected from HydraSleeves™ that were deployed in 20 monitoring wells (AMW-7R, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-VD, AMW-15-D3, MW-23-D1R, MW-23-D2R, MW-24-D1R, MW-24-D2, MW-24-VDR, MW-26-D1, MW-26-D2, MW-27-D1R, MW-27-D2, MW-28-D1, MW-28-D2R, and MW-29-D1). Due to a Hydrasleeve™ malfunction, MW-18R was unable to be sampled during this third quarter event. The Hydrasleeve™ will attempt to be removed during the fourth quarter event and a Hydrasleeve™ will be deployed in MW-18R. 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) in the samples collected during the August 19 and 20, 2020 sampling event:

- Benzene exceeded the TOGS Water Guidance value of 1 microgram per Liter (µg/L) at monitoring wells AMW-14-D1 (5.40 µg/L), AMW-15-D1 (4.70 µg/L, estimated), MW-24-D1R (10.2 µg/L), MW-26-D1 (6.46 µg/L), MW-27-D1R (3.12 µg/L, estimated), and MW-28-D1 (5.03 µg/L).
- Ethylbenzene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring wells AMW-14-D1 (6.29 µg/L) and MW-24-D1R (6.80 µg/L).

- Total xylenes exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well MW-24-D1R (26.9 µg/L).
- Methyl tert-butyl ether (MTBE) exceeded the TOGS Water Guidance value of 10 µg/L at monitoring wells AMW-14-D1 (181 µg/L), AMW-14-D2 (32.0 µg/L), AMW-15-D1 (94.3 µg/L), AMW-15-D2 (11.0 µg/L), AMW-15-D3 (72.8 µg/L), MW-23-D1R (85.5 µg/L), MW-23-D2R (42.2 µg/L), MW-24-D1R (220 µg/L), MW-24-D2 (76.4 µg/L), MW-26-D1 (97.4 µg/L), MW-26-D2 (64.4 µg/L), MW-27-D1R (26.0 µg/L), MW-28-D1 (16.5 µg/L), and MW-29-D1 (29.5 µg/L).
- Trichloroethene (TCE) exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-15-D3 (8.84 µg/L).
- Vinyl chloride exceeds the TOGS Water Guidance value of 2 µg/L at monitoring wells AMW-14-D1 (4.74 µg/L), MW-26-D1 (39.0 µg/L), and MW-27-D1R (33.6 µg/L).
- Trans-1,2-dichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-14-D1 (10.8 µg/L) and MW-24-D1R (13.2 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 and the higher of the two results were used for reporting and discussion purposes. The analytical results are summarized in **Table 2** and are illustrated on **Figure 5**. 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 20 monitoring wells.

FUTURE SITE ACTIVITIES

The next quarterly sampling event was completed in November 2020. If you have any questions regarding this progress report or require any additional information, please do not hesitate to contact me at 646.760.0584 or at Loretta.Kwong@arcadis.com.

Arcadis of New York, Inc.



Loretta Kwong
Project Manager



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- 3 D1 Horizon Groundwater Contour Map – August 18,,2020
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Attachments

- 1 Groundwater Gauging and Sampling Logs
- 2 Laboratory Analytical Report

TABLES



Table 1
Groundwater Elevation Data – August 18, 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Monitoring Well ID	Date	Well Diameter (in)	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	8/18/2020	2	12.40	9.05	ND	6.60	2.45
AMW-7R	8/18/2020	2	13.89	9.95	ND	7.69	2.26
MW-18R	8/18/2020	2	NM	7.98	ND	6.15	1.83
D1 Horizon Monitoring Wells							
AMW-13-D1	8/18/2020	2	32.92	9.87	ND	6.70	3.17
AMW-14-D1	8/18/2020	2	32.77	9.38	ND	6.32	3.06
AMW-15-D1	8/18/2020	2	36.07	9.74	ND	7.04	2.70
MW-23-D1R	8/18/2020	2	25.40	9.84	ND	6.97	2.87
MW-24-D1R	8/18/2020	2	31.81	9.82	ND	7.04	2.78
MW-26-D1	8/18/2020	2	19.22	9.95	ND	6.93	3.02
MW-27-D1R	8/18/2020	2	32.81	9.01	ND	5.94	3.07
MW-28-D1	8/18/2020	2	29.59	8.25	ND	5.08	3.17
MW-29-D1	8/18/2020	2	23.36	5.21	ND	2.42	2.79
MW-30-D1	8/18/2020	2	29.84	8.74	ND	6.42	2.32
MW-31-D1R	8/18/2020	2	30.05	8.39	ND	5.38	3.01
MW-32D	8/18/2020	2	36.56	8.85	ND	5.75	3.10
OW-2-D1	8/18/2020	2	33.70	9.94	ND	7.13	2.81
D2 Horizon Monitoring Wells							
AMW-13-D2	8/18/2020	2	42.80	9.76	ND	6.80	2.96
AMW-14-D2	8/18/2020	2	43.27	9.37	ND	6.33	3.04
AMW-15-D2	8/18/2020	2	41.45	9.71	ND	6.96	2.75
MW-23-D2R	8/18/2020	2	45.89	10.52	ND	7.71	2.81
MW-24-D2	8/18/2020	2	15.21	10.00	ND	7.21	2.79
MW-26-D2	8/18/2020	2	45.15	9.40	ND	6.39	3.01
MW-27-D2	8/18/2020	2	46.89	9.09	ND	6.02	3.07
MW-28-D2R	8/18/2020	2	47.05	8.40	ND	5.81	2.59
MW-29-D2	8/18/2020	2	39.68	5.38	ND	2.59	2.79
MW-30-D2	8/18/2020	2	40.20	8.72	ND	5.63	3.09
MW-31-D2R	8/18/2020	2	45.90	8.35	ND	5.23	3.12
D3 Horizon Monitoring Wells							
AMW-15-D3	8/18/2020	2	47.71	9.81	ND	6.99	2.82
VD Horizon Monitoring Wells							
AMW-13-VD	8/18/2020	2	70.50	9.77	ND	6.45	3.32
AMW-14-VD	8/18/2020	2	75.24	9.25	ND	6.12	3.13
AMW-15-VD	8/18/2020	2	72.37	9.82	ND	6.75	3.07
MW-24-VDR	8/18/2020	2	72.36	9.72	ND	6.40	3.32
MW-26-VD	8/18/2020	2	67.60	9.99	ND	7.02	2.97
MW-29-VD	8/18/2020	2	59.70	5.27	ND	2.03	3.24
MW-30-VD	8/18/2020	2	82.40	8.70	ND	4.84	3.86

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

NM = not measured

ND = not detected

Table 2
Summary of Groundwater Sampling Results – August 19 and 20, 2020
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	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	mg/L	mg/L	ug/L
AMW-14-D1	8/19/2020	5.40	0.465 J	6.29	4.86	181	1.08	10.8	<1.00	4.74 J0	42,500 T8	8,480	131	1,930,000	678,000	2,950	6.97 T8	<2,000
AMW-14-D2	8/19/2020	<10.0	<10.0	<10.0	<30.0	32.0	<10.0	<10.0	<10.0	<10.0	55,800 T8	17,800	340	2,510,000	832,000	4,380	16.90 T8	<2,000
AMW-14-VD	8/20/2020	<1.00	<1.00	<1.00	<3.00	0.303 J	<1.00	<1.00	<1.00	<1.00	82,100 T8	16,700	389	8,790,000	527,000	17,000	1.82 T8	<100
AMW-7R	8/19/2020	0.566 J	<1.00	0.331 J	0.990 J	<1.00	3.11	<1.00	<1.00	<1.00	46,300 T8	94,900	3,080	113,000	656,000	87	83.60 T8	<500
AMW-15-D1	8/19/2020	4.70 J	<5.00	2.57 J	2.96 J	94.3	<5.00	4.20 J	<5.00	<5.00 J0	<20000 T8	1,320	126	1,460,000	442,000	1,990	0.836 T8	<10,000
AMW-15-D2	8/19/2020	0.102 J	<1.00	<1.00	<3.00	11.0	<1.00	<1.00	<1.00	<1.00 J0	46,600 T8	10,500	150	2,230,000	413,000	2,410	5.04 T8	<2,000
AMW-15-D3	8/19/2020	0.664 J	<1.00	0.161 J	0.376 J	72.8	<1.00	0.226 J	8.84	<1.00 J0	52,200 T8	3,030	871	3,930,000	479,000	8,160	2.80 T8	<500
AMW-15-VD	8/19/2020	<1.00	<1.00	<1.00	<3.00	0.684 J	<1.00	<1.00	<1.00	<1.00 J0	29,500 T8	6,080	230	6,370,000	509,000	17,000	<0.10 T8	<500
MW-23-D1R	8/19/2020	0.312 J	<1.00	<1.00	<3.00	85.5	0.414 J	<1.00	<1.00	<1.00 J0	41,200 T8	6,320	1,260	1,300,000	543,000	2,340	1.44 T8	<2,000
MW-23-D2R	8/19/2020	0.407 J	<1.00	<1.00	<3.00	42.2	<1.00	<1.00	<1.00	<1.00 J0	54,100 T8	46,200	290	2,340,000	505,000	3,710	43.40 T8	<500
MW-24-D1R	8/19/2020	10.2 [9.74]	<5.00 [<5.00]	6.80 [6.57]	26.9 [26.3]	220 [206]	0.712 J [0.681 J]	12.9 [13.2]	<5.00 [<5.00]	<5.00 J0 [<5.00 J0]	47,000 T8 [46,300 T8]	674 [819]	9.41 J [14.6]	14,40,000 [14,70,000]	4,23,000 [4,85,000]	2,360 [2,390]	0.454 T8 [0.576 T8]	<10,000 [<2,000]
MW-24-D2	8/18/2020	0.227 J	<1.00	<1.00	<3.00	76.4	0.141 J	0.359 J	<1.00	<1.00 J0	<20,000 T8	436	33	518,000	235,000	728	<0.050 T8	<500
MW-24-VDR	8/18/2020	<1.00	<1.00	<1.00	<3.00	1.16	<1.00	<1.00	<1.00	<1.00 J0	75,500 T8	44,900	578	8,910,000	332,000	12,800	12.80 T8	<100
MW-26-D1	8/19/2020	6.46	<1.00	1.38	1.02 J	97.4	0.555 J	1.57	<1.00	39.0 J0	34,800 T8	1,340	31	1,370,000	500,000	2,360	1.01 T8	<500
MW-26-D2	8/19/2020	<1.00	<1.00	<1.00	<3.00	64.4	<1.00	<1.00	<1.00	<1.00	47,900 T8	402	100	2,280,000	638,000	4,160	0.242 T8	<500
MW-27-D1R	8/19/2020	3.12 J	<5.00	<5.00	1.12 J	26.0	<5.00	1.52 J	<5.00	33.6 J0	55,300 T8	10,600	156	2,710,000	945,000	5,060	0.178 T8	<2,000
MW-27-D2	8/19/2020	<1.00	<1.00	<1.00	<3.00	1.21	<1.00	<1.00	<1.00	<1.00	75,400 T8	747	199	2,470,000	397,000	3,690	<0.050 T8	<100 J6
MW-28-D1	8/19/2020	5.03	<1.00	0.750 J	1.02 J	16.5	<1.00	<1.00	<1.00	<1.00	23,000 T8	167	58	1,410,000	496,000	2,490	0.0216 J T8	<100
MW-28-D2R	8/19/2020	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	90,300 T8	48,300	855	5,750,000	343,000	9,550	43.80 T8	<100
MW-29-D1	8/19/2020	<1.00	<1.00	<1.00	<3.00	29.5	<1.00	<1.00	<1.00	<1.00	39,600 T8	1,360	172	574,000	256,000	950	1.13 T8	107

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
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.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low
J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
T8 = Sample(s) received past/too close to holding time expiration.
NE = Not established
[] = Duplicate analysis results

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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-Trichlorotri-fluoroethane (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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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	< 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
	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
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
	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
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
	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
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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.180 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.606 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00
	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
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
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
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
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
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
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
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
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
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
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
06/10/2020		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0
08/19/2020		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0
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
	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
	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
	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
	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
	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
	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
	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
	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

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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-Trichlorotri-fluoroethane (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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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.)	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
	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
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00 J0	<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
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
	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
	10/26/2016	< 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
	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
	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
	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
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5 J	< 5.0	< 50	< 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
	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
	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
	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
	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
	08/19/2020	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J0	<25.0 J0	<5.00	<5.00 J0J4	<5.00	<5.00
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
	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
	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
	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
	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
	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
	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
	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
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 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
	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
	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
	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
	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
08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J0	<5.00 J0	<1.00	<1.00 J0J4	<1.00	<1.00	
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
	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
	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
	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
	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
	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
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 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

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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 (cont.)	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
	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
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.187 J	<1.00	<5.00 J0	<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 J0	<5.00 J0	<1.00	<1.00 J0J4	<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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00 J0	<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 J0	<5.00 J0	<1.00	<1.00 J0J4	0.144 J	<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
	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
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
	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
	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
	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
	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
	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
	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
	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
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00 J0	<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	
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
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
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
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
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
MW-18R	06/22/2016	< 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
	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
	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
	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
	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
	06/09/2020	<5.00	<5.00	<5.00	<5.00 J4	<5.00	<5.00	<5.00	<25.0 J0	<5.00	<5.00	<5.00	<5.00

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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-Trichlorotri-fluoroethane (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	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	
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-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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
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		
08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 JO	<5.00 JO	<1.00	<1.00 JOJ4	<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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	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	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 JO	<5.00 JO	<1.00	<1.00 JOJ4	<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
		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
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	
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	
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	
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	
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	
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	
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]	
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]	
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]	
06/09/2020		<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]	<5.00 [<5.00]	<25.0 [<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 [<5.00]	<5.00 [<5.00]	<5.00 [<5.00]	<5.00 JO [<5.00 JO]	<25.0 JO [<25.0 JO]	<5.00 [<5.00]	<5.00 JOJ4 [<5.00 JOJ4]	<5.00 [<5.00]	<5.00 [<5.00]		
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	
	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	
	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	
	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	
	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	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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-24-D2 (cont.)	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
	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
	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
	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
	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
	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
	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
	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
	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
06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.293 J	<1.00	<5.00 J0	<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 J0	<5.00 J0	<1.00	<1.00 J0J4	<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
	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
	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
	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
	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
	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
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00 J0	<1.00	<1.00	<1.00	<1.00
	08/18/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J0	<5.00 J0	<1.00	<1.00 J0J4	<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
	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
	10/25/2016	< 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
	07/05/2017	< 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
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	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
	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
	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
	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
	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
	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
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	
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
	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
	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
	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
	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
	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
	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
	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
	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

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Former Gulf Oil Terminal
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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-Trichlorotri-fluoroethane (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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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-26-D2 (cont.)	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
	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
	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
	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
	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
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
	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
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
	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
	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
	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
	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
	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
	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
	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
	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
	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
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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.430 J	<1.00	<5.00 J0	<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
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
	07/28/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	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
	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
	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
	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
	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
	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
	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
	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
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.209 J	<1.00	<5.00 J0	<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

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
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-Trichlorotri-fluoroethane (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
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1
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	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
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	
06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.155 J	<1.00	<1.00	<5.00 J0	<1.00	0.205 J	<1.00	<1.00
08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.186 J	<1.00	<1.00	<5.00	<1.00	0.251 J	<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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	<5.00 J0	<1.00	<1.00	<1.00	
08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<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
	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
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
	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
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
	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
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
	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
	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
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
	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
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
	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
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
	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

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics												
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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	< 5.0	< 5.0	< 50	< 25	< 25	25 J	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
AMW-13-D1	06/24/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	6.5 J	< 1.0	0.99 J	3.4	< 1.0	2.7	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.4 J	4.5	< 1.0	1.1	< 1.0	2.8	< 1.0	
AMW-13-D2	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	3.3 J	3.2 J	< 1.0	0.97 J	4.2	< 1.0	0.66 J	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	4.8 J	< 1.0	< 1.0	0.62 J	< 1.0	12	< 1.0	
AMW-13-VD	06/23/2016	< 1.0	< 1.0	3.2 J	< 5.0	< 5.0	18	< 1.0	< 1.0	3.1	< 1.0	1.5	< 1.0	
	07/27/2016	< 1.0	< 1.0	5.8 J	< 5.0	2.4 J	46	< 1.0	< 1.0	< 1.0	< 1.0	7.9	< 1.0	
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	4.6 J	< 1.0	0.85 J	2.5	< 1.0	2.6	< 1.0	
	07/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.9 J	4.3	< 1.0	< 1.0	< 1.0	2.8	< 1.0	
	07/05/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	2.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	4.7	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	
	07/12/2018	< 8.0	< 8.0	< 80	< 40	< 40	< 80	5.3 J	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	0.98 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 50	< 50	< 50	< 50	7.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 50	< 50	< 50	< 50	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 50	< 50	< 50	< 50	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 50	< 50	< 50	< 50	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	0.533 J	<1.00	<1.00	<5.00	0.294 J	<1.00	
	08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	5.40	<1.00	<1.00	<5.00	0.615 J	<1.00	
	AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	3.2 J	3.3 J	< 1.0	0.99 J	4.6	< 1.0	5.5	< 1.0
		07/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.1 J	0.88 J	< 1.0	1.3	< 1.0	12	< 1.0
07/27/2016		< 1.0	< 1.0	< 10	< 5.0	< 5.0	9.6 J	< 1.0	< 1.0	< 1.0	< 1.0	8.4	< 1.0	
08/27/2017		< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 1.0	
10/11/2017		< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	
07/12/2018		< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
10/17/2018		< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
05/10/2019		< 1.0	< 1.0	< 50	< 50	< 50	< 50	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	
09/13/2019		< 1.0	< 1.0	< 50	< 50	< 50	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/05/2019		< 1.0	< 1.0	< 50	< 50	< 50	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
02/12/2020		< 1.0	< 1.0	< 50	< 50	< 50	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/10/2020		<10.0	<10.0	<100	<100	<100	<500	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	
08/19/2020		<10.0 J4	<10.0 J4	<100	<100	<100	<500 J0	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	
AMW-14-VD		06/23/2016	< 1.0	< 1.0	3.9 J	< 5.0	2.1 J	22	< 1.0	0.87 J	3	< 1.0	0.63 J	< 1.0
		07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	8.9 J	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 1.0
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.7 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	
	07/12/2018	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/13/2019	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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.)	12/05/2019	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	02/12/2020	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
	08/20/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
AMW-15-D1	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	2.1 J	4.2 J	0.48 J	< 1.0	2.2	< 1.0	0.46 J	< 1.0
	07/27/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	3.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	10/26/2016	< 10	< 10	< 100	< 50	< 50	< 100	11	< 10	< 10	< 10	< 10	< 10
	10/26/2016	< 4.0	< 4.0	< 40	< 20	< 20	< 40	5.1	< 4.0	< 4.0	< 4.0	1.7 J	< 4.0
	07/05/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	2.7 J	< 4.0
	10/11/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	11	< 2.0	< 2.0	< 2.0	2	< 2.0
	10/17/2018	< 5.0	< 5.0	< 250	< 50	< 50	< 130	12	< 5.0	< 5.0	< 5.0	1.7 J	< 5.0
	05/09/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	6.3	< 1.0	< 1.0	< 1.0	1.3	< 1.0
	09/13/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	6.2	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	6.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<5.00	<5.00	<50.0	<50.0	<50.0	<250	6.35	<5.00	<5.00	<25.0	<5.00	<5.00
	08/19/2020	<5.00	<5.00	<50.0	<50.0 J0	<50.0	<250 J0	4.70 J	<5.00	<5.00	<25.0 J0	6.45	<5.00
AMW-15-D2	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	9.3 J	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0
	06/23/2016	< 1.0	< 1.0	1.3 J	< 5.0	< 5.0	11	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
	07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	13	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	5.1 J	0.47 J	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0
	07/05/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	9.8	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0
	05/10/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	0.123 J	<1.00	<1.00	<5.00	<1.00	<1.00
08/19/2020	<1.00	<1.00	<10.0	<10.0 J0	<10.0	<50.0 J0	0.102 J	<1.00	<1.00	<5.00 J0	2.33	<1.00	
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	6.9 J	< 1.0	< 1.0	< 1.0	< 1.0	4.4	< 1.0
	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	7.3 J	< 1.0	< 1.0	< 1.0	< 1.0	4.6	< 1.0
	07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.6 J	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	36 J	3.7 J	< 4.0	< 4.0	< 4.0	1.8 J	< 4.0
	10/11/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	< 20	< 10	< 10	16 J	< 2.0	< 2.0	< 2.0	< 2.0	0.70 J	< 2.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0
	05/10/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0
09/13/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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-15-D3 (cont.)	12/05/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.318 J	<1.00
	08/19/2020	<1.00	<1.00	<10.0	<10.0 JO	<10.0	<50.0 JO	0.664 J	<1.00	<1.00	<5.00 JO	1.93	<1.00
AMW-15-VD	06/23/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	8.3 J	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/13/2018	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
	08/19/2020	<1.00	<1.00	<10.0	<10.0 JO	<10.0	<50.0 JO	<1.00	<1.00	<1.00	<5.00 JO	<1.00	<1.00
AMW-3	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	280	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	3.4 J	< 5.0	< 5.0	21	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	< 1.0
AMW-7R	01/12/2016	< 5.0	< 5.0	< 50	< 25	< 25	30 J	5.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	6.2 J	1.1	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0
	07/11/2018	< 2.0	< 2.0	< 20	< 10	< 10	< 20	0.82 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	8.1 J	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	<5.0	<5.0	<5.0	<5.0	0.82 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	0.926 J	<1.00	<1.00	<5.00	<1.00	<1.00
	08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 JO	0.566 J	<1.00	<1.00	<5.00	<1.00	<1.00
ASB-2	06/06/2016	< 1.0	< 1.0	< 10	< 5.0	6	20	1.8	1.9	< 1.0	< 1.0	1.1	< 1.0
ASB-3	06/08/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	5.5 J	< 1.0	0.75 J	2.4	< 1.0	0.27 J	< 1.0
ASB-4	06/07/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	3.0 J	< 5.0	< 5.0	< 5.0	0.95 J	< 5.0
ASB-5	06/02/2016	< 1.0	< 1.0	1.4 J	< 5.0	5	12	< 1.0	1.5	< 1.0	< 1.0	0.53 J	< 1.0
ASB-7	06/02/2016	< 2.0	< 2.0	< 20	< 10	5.3 J	< 20	< 2.0	3.3	< 2.0	< 2.0	1.1 J	< 2.0
MW-18R	06/22/2016	< 10	< 10	< 100	< 50	< 50	< 100	310	< 10	< 10	< 10	< 10	< 10
	07/11/2018	< 20	< 20	74 J	< 100	< 100	330	48	< 20	< 20	< 20	6.2 J	< 20
	10/17/2018	< 5.0	< 5.0	70 J	< 50	< 50	230	69	< 5.0	< 5.0	< 5.0	2.4 J	< 5.0
	09/14/2019	< 1.0	< 1.0	10	< 5.0	2.2 J	47	85	< 1.0	< 1.0	< 1.0	3.2	< 1.0
	12/05/2019	< 1.0	< 1.0	33	3.7 J	2.9 J	130	74	< 1.0	< 1.0	< 1.0	2	< 1.0
	02/12/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	19	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<5.00	<5.00	10.7 J	<50.0	<50.0	<250	27.0	<5.00	<5.00	<25.0	1.26 J	<5.00

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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-D1R	10/26/2016	< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	0.53 J	< 2.0
	10/26/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	01/12/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/20/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	6.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/05/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/12/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/12/2018	< 4.0	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	3.8	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	0.408 J	<1.00	<1.00	<5.00	<1.00	<1.00	
08/19/2020	<1.00	<1.00	<10.0	<10.0 JO	<10.0	<50.0 JO	0.312 J	<1.00	<1.00	<5.00 JO	0.671 J	<1.00	
MW-23-D2R	01/12/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/20/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	23	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	4.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/12/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	< 1.0
	07/12/2018	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
08/19/2020	<1.00	<1.00	<10.0	<10.0 JO	<10.0	<50.0 JO	0.407 J	<1.00	<1.00	<5.00 JO	0.253 J	<1.00	
MW-24-D1R	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 4.0	< 4.0	< 40	< 20	< 20	< 40	5.4	< 4.0	< 4.0	< 4.0	1.6 J	< 4.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	4.1	< 1.0	< 1.0	< 1.0	1.7	< 1.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	4.9	< 1.0	< 1.0	< 1.0	1.3	< 1.0
	10/26/2016	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/12/2018	< 8.0	< 8.0	< 80	< 40	< 40	< 80	11	< 8.0	< 8.0	< 8.0	2.1 J	< 8.0
	10/16/2018	< 5.0	< 5.0	< 250	< 50	< 50	< 130	8.3	< 5.0	< 5.0	< 5.0	1.4 J	< 5.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0
	09/13/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 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]
	12/05/2019	< 1.0 [<1.0]	< 1.0 [<1.0]	< 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]
	02/11/2020	< 1.0 [<1.0]	< 1.0 [<1.0]	<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]
	06/09/2020	<5.00 [<5.00]	<5.00 [<5.00]	<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]
08/19/2020	<5.00 [<5.00]	<5.00 [<5.00]	<50.0 [<50.0]	<50.0 JO [$<50.0 JO$]	<50.0 [<50.0]	<250 JO [$<250 JO$]	10.2 [9.74]	<5.00 [<5.00]	<5.00 [<5.00]	<25.0 JO [$<25.0 JO$]	8.28 [3.68 J]	<5.00 [<5.00]	
MW-24-D2	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	3.3 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	3.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	0.97 J	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0
	10/25/2016	< 4.0	< 4.0	< 40	< 20	< 20	62	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/25/2016	< 5.0	< 5.0	< 50	< 25	< 25	56	3.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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-24-D2 (cont.)	07/05/2017	< 8.0	< 8.0	< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
	08/27/2017	< 8.0	< 8.0	< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
	10/11/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/12/2018	< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	2.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	5.2	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	0.367 J	<1.00	<1.00	<5.00	0.167 J	<1.00	
08/18/2020	<1.00	<1.00	<10.0	<10.0 J0	<10.0	<50.0 J0	0.227 J	<1.00	<1.00	<5.00 J0	0.266 J	<1.00	
MW-24-VDR	07/12/2018	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.64 J	< 1.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	5.5	7.2	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.347 J	<1.00
	08/18/2020	<1.00	<1.00	<10.0	<10.0 J0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00 J0	0.394 J	<1.00
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	9.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/22/2016	< 4.0	< 4.0	< 40	< 20	< 20	< 40	9.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/25/2016	< 10	< 10	< 100	< 50	< 50	< 100	8.6 J	< 10	< 10	< 10	< 10	< 10
	10/25/2016	< 4.0	< 4.0	< 40	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/05/2017	< 10	< 10	< 100	< 50	< 50	< 100	8.7 J	< 10	< 10	< 10	< 10	< 10
	08/27/2017	< 10	< 10	< 100	< 50	< 50	< 100	9.5 J	< 10	< 10	< 10	< 10	< 10
	10/11/2017	< 2.0	< 2.0	< 20	< 10	< 10	6.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	< 20	< 10	< 10	< 20	17	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	4.9	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	7.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	8.93	<1.00	<1.00	<5.00	0.773 J	<1.00	
08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	6.46	<1.00	<1.00	<5.00	0.360 J	<1.00	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0
	10/25/2016	< 2.0	< 2.0	< 20	< 10	< 10	9.4 J	< 2.0	< 2.0	< 2.0	< 2.0	0.60 J	< 2.0
	10/25/2016	< 2.0	< 2.0	< 20	< 10	< 10	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0
	08/27/2017	< 8.0	< 8.0	< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
	10/11/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.79 J	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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-26-D2 (cont.)	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
	08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00	0.204 J	<1.00
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	170	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	53	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	1.7 J	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	0.66 J	< 1.0
	07/05/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	08/27/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	< 20	< 10	< 10	< 20	7.8	< 2.0	< 2.0	< 2.0	0.64 J	< 2.0
	10/18/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	3.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/19/2020	<5.00 J4	<5.00 J4	<50.0	<50.0	<50.0	<250 J0	3.12 J	<5.00	<5.00	<25.0	0.852 J	<5.00
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 4.0	< 4.0	8.2 J	< 20	< 20	38 J	160	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/12/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/13/2018	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/18/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.133 J	<1.00
	08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
MW-28-D1	06/24/2016	< 1.0	< 1.0	2.3 J	< 5.0	< 5.0	45	2.1	< 1.0	< 1.0	< 1.0	1	< 1.0
	07/28/2016	< 10	< 10	< 100	< 50	< 50	280	< 10	< 10	< 10	< 10	< 10	< 10
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	8.9	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	3.7 J	< 4.0	< 4.0	< 4.0	4.9	< 4.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	9.3 J	5.6	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	17.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	9.35	<1.00	<1.00	<5.00	<1.00	<1.00
08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	5.03	<1.00	<1.00	<5.00	<1.00	<1.00	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride
NYSDEC TOGS 1.1.1		3	3	50	50	NE	50	1	50	50	5	60	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	06/24/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	3.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/28/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	4.4 J	< 1.0	1.2	5.6	< 1.0	0.52 J	< 1.0
	07/05/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0
	08/27/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/11/2017	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.95 J	< 1.0
	07/13/2018	< 4.0	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	1.0 J	< 4.0
	10/17/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/09/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50 J	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0
	09/13/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
02/11/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/09/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.781 J	<1.00	
08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00	0.404 J	<1.00	
MW-29-D1	01/14/2016	< 5.0	< 5.0	< 50	< 25	< 25	25 J	81	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	9.5 J	6.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/26/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	5.5	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0
	07/05/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	9.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	08/27/2017	< 2.0	< 2.0	< 20	< 10	< 10	< 20	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	10/12/2017	< 4.0	< 4.0	< 40	< 20	< 20	< 40	4.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	07/13/2018	< 4.0	< 4.0	< 40	9.1 J	< 20	< 40	5.2	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	10/18/2018	< 1.0	< 1.0	< 50	< 10	< 10	< 25	3.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/06/2019	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
06/10/2020	<1.00	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.307 J	<1.00	
08/19/2020	<1.00 J4	<1.00 J4	<10.0	<10.0	<10.0	<50.0 J0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/21/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0
MW-29-VD	01/14/2016	< 10	< 10	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10
	06/21/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	01/14/2016	< 2.0	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30-VD	01/14/2016	< 10	< 10	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	5.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-31-D1R	01/14/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	11	1.1	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/22/2016	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics												
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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	
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE	
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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0	24	< 13	
AMW-13-D1	06/24/2016	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 2.5	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	1.8	< 1.0	< 2.5	
AMW-13-D2	06/23/2016	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	< 2.5	
AMW-13-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 2.5	
	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	< 2.5	
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	< 2.5	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	1.9	< 1.0	< 1.0	3.6	< 1.0	< 2.5	
	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	< 10	
	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	< 10	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	7.2	< 2.0	< 5.0	
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	7.5 J	< 8.0	< 20	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1	< 1.0	< 10	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	5.9	1.0	< 5.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 5.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 5.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	0.3 J	< 1.0 *	0.88 J	< 1.0 *	< 1.0	2.7	0.44 J	< 5.0	
	06/10/2020	< 1.00	< 5.00	< 5.00	< 2.50	0.427 J	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	0.486 J	0.172 J	< 20.0
	08/19/2020	< 1.00	< 5.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	6.29	1.08	< 20.0
AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	< 2.5	
	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	< 2.5	
	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	< 2.5	
	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	< 2.5	
	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	< 5.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0*	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	
	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	< 5.0	
	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	< 5.0	
	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	< 5.0	
	06/10/2020	< 10.0	< 50.0	< 50.0	< 25.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200
	08/19/2020	< 10.0	< 50.0	< 50.0	< 25.0	2.50 J	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200
AMW-14-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	2	< 1.0	< 1.0	< 1.0	< 2.5	
	07/27/2016	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	
	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	< 2.5	
	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	< 2.5	
	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	< 2.5	
	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	< 2.5	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	
	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	< 5.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE
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.)	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	<5.0
	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	<5.0
	06/10/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
	08/20/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
AMW-15-D1	06/23/2016	<1.0	<1.0	0.51 J	<1.0	20	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<2.5
	07/27/2016	<5.0	<5.0	<5.0	<5.0	220	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<13
	10/26/2016	<10	<10	<10	<10	81	<10	<10	<10	<10	<10	<10	<25
	10/26/2016	<4.0	<4.0	<4.0	<4.0	38	<4.0	2.0 J	<4.0	<4.0	<4.0	<4.0	<10
	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	<10
	08/27/2017	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	<4.0	<4.0	<4.0	4.1	<4.0	<10
	10/11/2017	<2.0	<2.0	<2.0	<2.0	1.6 J	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	<5.0
	10/17/2018	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.8 J	<5.0	<5.0	5	<5.0	<50
	05/09/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.79 J	<1.0	<1.0	2.6	<1.0	<5.0
	09/13/2019	<1.0	<1.0	<1.0	<1.0	0.36 J	<1.0	0.66 J	<1.0	<1.0	2.3	<1.0	<5.0
	12/05/2019	<1.0	<1.0	<1.0	<1.0	0.63 J	<1.0	0.77 J	<1.0	<1.0	2.8	<1.0	<5.0
	02/11/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 *	0.33 J	<1.0 *	<1.0	0.99 J	<1.0	<5.0
	06/10/2020	<5.00	<25.0	<25.0	<12.5	<5.00	<5.00	<5.00	<5.00	<25.0	4.05 J	0.535 J	<100
	08/19/2020	<5.00	<25.0 J0	<25.0	<12.5	<5.00	<5.00	<5.00	<5.00	<25.0	2.57 J	<5.00	<100
AMW-15-D2	06/23/2016	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5
	06/23/2016	<1.0	<1.0	<1.0	<1.0	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5
	07/27/2016	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5
	10/26/2016	<1.0	<1.0	<1.0	<1.0	0.86 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5
	10/26/2016	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5
	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	<10
	08/27/2017	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	<10
	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	<10
	10/17/2018	<1.0	<1.0	<1.0	<1.0	0.26 J	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10
	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	<5.0
	09/13/2019	<1.0	<1.0	<1.0	<1.0	0.34 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
	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	<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	<5.0
	06/09/2020	<1.00	<5.00	<5.00	<2.50	0.310 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
08/19/2020	<1.00	<5.00 J0	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	
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	<2.5
	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	<2.5
	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	<2.5
	08/27/2017	<4.0	<4.0	<4.0	<4.0	19	<4.0	<4.0	<4.0	<4.0	3.4 J	<4.0	<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	<5.0
	07/13/2018	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0
	10/17/2018	<1.0	<1.0	<1.0	<1.0	0.44 J	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10
	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	<5.0
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	<5.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE
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 (cont.)	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	<5.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	0.99 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0
	06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
	08/19/2020	<1.00	<5.00 J0	<5.00	<2.50	1.73	<1.00	<1.00	<1.00	<5.00	0.161 J	<1.00	<20.0
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	< 2.5
	07/27/2016	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 2.5
	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	< 2.5
	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	< 2.5
	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	< 2.5
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	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	< 5.0
	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	< 5.0
	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	< 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	< 5.0
	06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
	08/19/2020	<1.00	<5.00 J0	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
AMW-3	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	57	< 5.0	< 5.0	29	65	< 13
	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	< 2.5
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	< 13
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18	< 1.0	< 1.0	< 1.0	2.8	< 2.5
	07/11/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	16	< 2.0	< 2.0	< 2.0	7.1	< 5.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	29	< 1.0	< 1.0	0.19 J	4.9	< 10
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	19	< 1.0	< 1.0	0.39 J	4.2	<5.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	4.4	<5.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	0.49 J	1.9	<5.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *	17	< 1.0	< 1.0	0.49 J	3.9	< 5.0
	06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	13.5	<1.00	<5.00	0.805 J	4	<20.0
08/19/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	14.6	<1.00	<5.00	0.331 J	3.11	<20.0	
ASB-2	06/06/2016	< 1.0	< 1.0	14	< 1.0	5.6	< 1.0	< 1.0	0.35 J	< 1.0	< 1.0	< 1.0	< 2.5
ASB-3	06/08/2016	< 1.0	< 1.0	0.92 J	< 1.0	2.8	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 2.5
ASB-4	06/07/2016	< 5.0	< 5.0	< 5.0	< 5.0	1600 E	< 5.0	5	< 5.0	< 5.0	6.7	< 5.0	< 13
ASB-5	06/02/2016	< 1.0	< 1.0	19	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5
ASB-7	06/02/2016	< 2.0	< 2.0	21	< 2.0	67	< 2.0	< 2.0	0.65 J	< 2.0	< 2.0	< 2.0	< 5.0
MW-18R	06/22/2016	< 10	< 10	< 10	< 10	14	< 10	20	< 10	< 10	< 10	14	< 25
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	8.3 J	< 5.0	< 5.0	1.2 J	6.8	< 50
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	6.7	< 1.0	< 1.0	1.4	7.4	< 5.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	7.2	< 1.0	< 1.0	1.6	4.8	< 5.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *	0.66 J	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0
	06/09/2020	<5.00 J4	<25.0	<25.0	<12.5	<5.00	<5.00	2.51 J	<5.00	<25.0	1.27 J	4.03 J	<100

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

Location ID	Date Sampled	Volatile Organics												
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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	
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE	
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-D1R	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.40 J	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	
	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	< 13	
	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	< 13	
	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	< 2.5	
	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	< 10	
	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	< 10	
	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	< 10	
	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	< 10	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	0.56 J	< 10	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.72 J	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	0.44 J	< 5.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 1.0 *	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 5.0	
06/10/2020	<1.00	<5.00	<5.00	<2.50	0.382 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.439 J	<20.0		
08/19/2020	<1.00	<5.00 J0	<5.00	<2.50	0.517 J	<1.00	0.267 J	<1.00	<5.00	<1.00	0.414 J	<20.0		
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	< 13	
	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	< 2.5	
	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	< 2.5	
	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	< 10	
	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	< 2.5	
	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	<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	< 5.0	
	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	< 5.0	
	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	< 5.0	
	08/19/2020	<1.00	<5.00 J0	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	
	MW-24-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13
		06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	4.9	< 4.0	1.9 J	< 4.0	< 4.0	3.1 J	< 4.0	< 10
10/26/2016		< 1.0	< 1.0	< 1.0	< 1.0	4	< 1.0	1.6	< 1.0	< 1.0	2.3	< 1.0	< 2.5	
10/26/2016		< 1.0	< 1.0	< 1.0	< 1.0	6.1	< 1.0	1.4	< 1.0	< 1.0	2.2	< 1.0	< 2.5	
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	< 10	
07/12/2018		< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	7.1 J	< 8.0	< 20	
10/16/2018		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	6.1	< 5.0	< 50	
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	< 5.0	
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]	1.1	< 1.0 [<1.0]	< 1.0 [<1.0]	7.9 [7.2]	0.97 J [0.86 J]	<5.0 [<5.0]	
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 [0.99 J]	< 1.0 [<1.0]	< 1.0 [<1.0]	2.4 [7.2]	1.0	<5.0 [<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]	0.65 J [1.]	< 1.0 * [<1.0]	< 1.0 [<1.0]	5.7 [8.9]	0.61 J [1.0]	<5.0 [<5.0]	
06/09/2020		<5.00 [<5.00]	<25.0 [<25.0]	<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]	
08/19/2020	<5.00 [<5.00]	<25.0 J0 [<25.0 J0]	<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]		
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	< 13	
	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	< 13	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	0.84 J	< 1.0	< 2.5	
	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	< 10	
	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	< 13	

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Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE
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-24-D2 (cont.)	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	< 20
	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	< 20
	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	< 5.0
	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	< 5.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	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	< 5.0
	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	< 5.0
	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	< 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	5.0 U
06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	0.467 J	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	
08/18/2020	<1.00	<5.00 J0	<5.00	<2.50	0.364 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.141 J	<20.0	
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	< 10
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	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	< 5.0
	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	< 5.0
	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	< 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	< 5.0
	06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	0.206 J	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
	08/18/2020	<1.00	<5.00 J0	<5.00	<2.50	0.140 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
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	< 13
	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	< 10
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	3.0 J	< 4.0	< 10
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	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	< 5.0
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 5.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 5.0	< 1.0	< 1.0	0.95 J	0.43 J	< 10
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	1.8	0.73 J	< 5.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.56 J	< 5.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0 *	< 1.0	< 1.0 *	< 1.0	1.3	0.67 J	< 5.0
	06/10/2020	<1.00	<5.00	<5.00	<2.50	3.28	<1.00	<1.00	<1.00	<5.00	2.47	1.06	<20.0
08/19/2020	<1.00	<5.00	<5.00	<2.50	1.45	<1.00	<1.00	<1.00	<5.00	1.38	0.555 J	<20.0	
MW-26-D2	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	< 13
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5
	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	< 5.0
	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	< 5.0
	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	< 2.5
	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	< 20
	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	< 2.5
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.39 J	< 1.0	< 10
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.44 J	< 1.0	< 5.0

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE
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-26-D2 (cont.)	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	< 5.0
	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	< 5.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
	06/10/2020	<1.00	<5.00	<5.00	<2.50	0.254 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
	08/19/2020	<1.00	<5.00	<5.00	<2.50	0.398 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
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	< 2.5
	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	< 2.5
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	< 13
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 5.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.95 J	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 5.0
	08/19/2020	<5.00	<25.0	<25.0	<12.5	0.855 J	<5.00	<5.00	<5.00	<25.0	<5.00	<5.00	<100
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	< 13
	06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	22 J	< 4.0	< 4.0	92	38	< 10
	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	< 2.5
	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	< 2.5
	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	< 2.5
	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	< 10
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	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	< 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	< 5.0
	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	< 5.0
	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	< 5.0
	06/10/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
	08/19/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
MW-28-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	< 2.5
	07/28/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 2.5
	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	< 10
	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	< 10
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.4	0.33 J	< 10
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.49 J	< 1.0	< 5.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	0.56 J	< 5.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.0 U	5.0 U
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	2.1	0.34 J	< 5.0
	06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	0.164 J	<1.00	<1.00	<1.00	<5.00	2.5	0.440 J	<20.0
08/19/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	0.750 J	<1.00	<20.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Chlorobenzene	Chloroethane	Chloroform	Chloro-methane (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
NYSDEC TOGS 1.1.1		5	5	7	5	5	0.4	NE	50	5	5	5	NE
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	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	< 2.5
	07/28/2016	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	< 1.0	< 2.5
	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	< 2.5
	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	< 10
	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	< 2.5
	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	< 10
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10
	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	< 5.0
	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	< 5.0
	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	< 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	< 5.0	
06/09/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0
08/19/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0
MW-29-D1	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0	< 5.0	< 5.0	24	< 13
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8	< 1.0	< 1.0	< 1.0	5.4	< 2.5
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	21	< 1.0	< 1.0	< 1.0	16	< 2.5
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	6.4	< 2.5
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	7.6	< 2.0	< 2.0	< 2.0	7.7	< 5.0
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	12	< 2.0	< 2.0	< 2.0	9.3	< 5.0
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	5.4	< 4.0	< 4.0	< 4.0	5.8	< 10
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	24	< 4.0	< 4.0	< 4.0	19	< 10
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	20	< 1.0	< 1.0	0.31 J	16	< 10
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	24	< 1.0	< 1.0*	0.34 J	18	< 5.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	2.2	< 5.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
	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	< 5.0
06/10/2020	<1.00 J4	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	0.107 J	<20.0	
08/19/2020	<1.00	<5.00	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	
MW-29-D2	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	< 2.5
	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	< 2.5
MW-29-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	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	< 2.5
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5
MW-30-D2	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	< 13
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	< 2.5
MW-30-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25
	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	< 2.5
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	< 2.5
	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	< 2.5
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	< 2.5
	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	< 2.5

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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	32	5.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
AMW-13-D1	06/24/2016	10	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 2.0
	07/27/2016	63 F1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 2.0
AMW-13-D2	06/23/2016	3.5	< 1.0	< 1.0	< 1.0	0.57 J	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/27/2016	41	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
AMW-13-VD	06/23/2016	5	< 1.0	< 1.0	< 1.0	1.5	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/27/2016	3.4	< 1.0	< 1.0	< 1.0	1	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
AMW-14-D1	06/24/2016	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 2.0
	07/26/2016	140 E	0.97 J	< 1.0	< 1.0	< 1.0	7.1	7.8	< 1.0	< 1.0	< 1.0	1600 E	11
	07/05/2017	170	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	78	3.2 J
	08/27/2017	170	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	7.6	< 8.0
	10/11/2017	170	2.4	0.95 J	< 2.0	< 2.0	1.0 J	13	< 2.0	< 2.0	< 2.0	3.2	20
	07/12/2018	160	1.7 J	< 8.0	< 8.0	< 8.0	< 8.0	8.6	< 8.0	< 8.0	< 8.0	< 8.0	16
	10/17/2018	120	0.40 J	< 5.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	32	1.6 J
	05/10/2019	250	3.0	< 1.0	< 1.0	< 1.0	0.84 J	11	< 1.0	< 1.0	< 1.0*	2.1	16
	09/13/2019	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 1.0	9	< 2.0
	12/05/2019	94	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	9.0	< 1.0	0.44 J	< 1.0	22	1.8 J
	02/12/2020	130	1.2	< 1.0	< 1.0	< 1.0	0.58 J	12.0	< 1.0	0.46 J	< 1.0	40	5.7
	06/10/2020	37.6	<1.00	<5.00	<1.00	<1.00	<1.00	3.79	<1.00	0.218 J	<5.00	5.59	0.780 J
	08/19/2020	181	3.18	<5.00	<1.00	<1.00	0.465 J	10.8	<1.00	<1.00	<5.00	4.74 J0	4.86
AMW-14-D2	06/23/2016	3.1	< 1.0	< 1.0	< 1.0	< 1.0	0.81 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/26/2016	24	< 1.0	< 1.0	< 1.0	< 1.0	0.64 J	0.90 J	< 1.0	< 1.0	< 1.0	3.6	< 2.0
	07/27/2016	0.58 J	< 1.0	< 1.0	< 1.0	0.38 J	7.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	14	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/11/2017	48	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/12/2018	62	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	10/17/2018	44	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	05/10/2019	33	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.85 J	< 1.0	< 1.0	< 1.0	0.32 J	<2.0
	09/13/2019	37	< 1.0	0.59 J	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	0.65 J	<2.0
	12/05/2019	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	<2.0
	02/12/2020	36	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	<2.0
	06/10/2020	33.2	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	4.00 J
	08/19/2020	32.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<30.0
AMW-14-VD	06/23/2016	0.91 J	0.36 J	< 1.0	< 1.0	0.59 J	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J
	07/27/2016	0.59 J	< 1.0	< 1.0	< 1.0	0.41 J	8.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/05/2017	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/11/2017	0.65 J	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2
	07/12/2018	0.49 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/17/2018	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	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	< 2.0
09/13/2019	0.54 J	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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.)	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	<2.0
	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	<2.0
	06/10/2020	0.317 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00
	08/20/2020	0.303 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00
AMW-15-D1	06/23/2016	29	< 1.0	9.9	< 1.0	0.43 J	3	< 1.0	< 1.0	5.5	< 1.0	70	< 2.0
	07/27/2016	51	< 5.0	140	< 5.0	< 5.0	7.5	< 5.0	< 5.0	73	< 5.0	410	6.5 J
	10/26/2016	110	3.3 J	8.9 J	< 10	< 10	18	< 10	< 10	48	< 10	600 F1	15 J
	10/26/2016	180	0.87 J	4.1	< 4.0	< 4.0	6.6	< 4.0	< 4.0	18	< 4.0	240	5.5 J
	07/05/2017	170	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	10	< 8.0
	08/27/2017	200	< 4.0	2.2 J	< 4.0	< 4.0	17	28	< 4.0	< 4.0	< 4.0	76	17
	10/11/2017	300 E	< 2.0	< 2.0	< 2.0	< 2.0	5.9	13	< 2.0	< 2.0	< 2.0	24	12
	10/17/2018	170	1.2 J	< 25	< 5.0	< 5.0	1.5 J	21	< 5.0	< 5.0	< 5.0	< 5.0	19
	05/09/2019	120	0.50 J	< 1.0	< 1.0	< 1.0	< 1.0	7.4	< 1.0	< 1.0	< 1.0*	1.1	6.3
	09/13/2019	100	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	6.7	< 1.0	< 1.0	< 1.0	2	5.1
	12/05/2019	120	< 1.0	0.41 J	< 1.0	< 1.0	0.43 J	7.1	< 1.0	< 1.0	< 1.0	2.2	5.8
	02/11/2020	37	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	1.6 J
	06/10/2020	171	<5.00	<25.0	<5.00	<5.00	<5.00	5.47	<5.00	<5.00	<25.0	<5.00	6.20 J
	08/19/2020	94.3	<5.00	<25.0	<5.00	<5.00	<5.00	4.20 J	<5.00	<5.00	<25.0	<5.00 J0	2.96 J
AMW-15-D2	06/23/2016	68	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 2.0
	06/23/2016	66	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 2.0
	07/27/2016	43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 2.0
	10/26/2016	42	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.7	< 2.0
	10/26/2016	110 E	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	30	< 2.0
	07/05/2017	120	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	08/27/2017	350	< 4.0	< 4.0	< 4.0	< 4.0	7.8	5.5	< 4.0	< 4.0	< 4.0	300	12
	10/11/2017	160	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	25	< 8.0
	10/17/2018	120	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	05/10/2019	61	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	09/13/2019	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 2.0
	12/05/2019	96	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	02/11/2020	91	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/09/2020	126	<1.00	<5.00	<1.00	<1.00	<1.00	0.209 J	<1.00	<1.00	<5.00	<1.00	0.225 J
08/19/2020	11.0	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J0	<3.00	
AMW-15-D3	06/23/2016	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/23/2016	2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/27/2016	23	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	64	< 4.0	2.4 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	140	< 4.0	16	17
	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	< 4.0
	07/13/2018	22	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	20	< 2.0	< 2.0	< 4.0
	10/17/2018	10	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 3.0
	05/10/2019	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 2.0
09/13/2019	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 2.0	

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Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloromethane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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-15-D3 (cont.)	12/05/2019	7.7	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0
	02/11/2020	51	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	0.57 J	<2.0
	06/09/2020	10.1	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00
	08/19/2020	72.8	<1.00	<5.00	<1.00	<1.00	<1.00	0.226 J	<1.00	8.84	<5.00	<1.00 J0	0.376 J
AMW-15-VD	06/23/2016	1.1	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/11/2017	0.94 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3
	07/13/2018	0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/17/2018	1.3	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	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	<2.0
	09/13/2019	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0
	12/05/2019	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0
	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	<2.0
	06/09/2020	0.856 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00
	08/19/2020	0.684 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J0	<3.00
AMW-3	01/13/2016	< 5.0	27	15	< 5.0	< 5.0	6.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20
	06/21/2016	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
AMW-7R	01/12/2016	1.4 J	1.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	06/21/2016	0.23 J	9.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J
	07/11/2018	< 2.0	29	1.1 J	< 2.0	< 2.0	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	10/17/2018	< 1.0	50	< 5.0	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J
	05/10/2019	< 1.0	31	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3 J
	09/14/2019	< 1.0	29	0.53 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	12/06/2019	< 1.0	7.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J
	02/12/2020	< 1.0	24	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J
	06/09/2020	<1.00	14.9	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	1.66 J
08/19/2020	<1.00	25.1	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.990 J	
ASB-2	06/06/2016	55	< 1.0	< 1.0	< 1.0	1.4	0.87 J	< 1.0	< 1.0	4.4	< 1.0	6	< 2.0
ASB-3	06/08/2016	8.5	< 1.0	0.60 J	< 1.0	1.3	< 1.0	< 1.0	< 1.0	1.2	< 1.0	81	< 2.0
ASB-4	06/07/2016	13	4.5 J	330	< 5.0	6.7	9	13	< 5.0	1500 E	< 5.0	400	36
ASB-5	06/02/2016	4.6	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	4.8	< 1.0	11	0.89 J
ASB-7	06/02/2016	5.5	< 2.0	< 2.0	< 2.0	1.2 J	< 2.0	< 2.0	< 2.0	1.7 J	< 2.0	31	< 4.0
MW-18R	06/22/2016	65	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
	07/11/2018	11 J	5.1 J	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40
	10/17/2018	28	6.2 J	< 25	< 5.0	< 5.0	4.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.2 J
	09/14/2019	40	5.6	0.68 J	< 1.0	< 1.0	4.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.1
	12/05/2019	14	3.3	0.62 J	< 1.0	< 1.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2
	02/12/2020	< 1.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/09/2020	3.42 J	<5.00	<25.0	<5.00	<5.00 J4	3.31 J	<5.00	<5.00	<5.00 J4	<25.0	<5.00	5.52 J

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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-D1R	10/26/2016	140	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	10/26/2016	180	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	01/12/2016	210	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	06/20/2016	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/05/2017	140	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	08/27/2017	130	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/12/2017	150	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	07/12/2018	91	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/17/2018	94	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1	< 3.0
	09/13/2019	92	< 1.0	0.53 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 2.0
	12/05/2019	83	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	02/11/2020	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/10/2020	106	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.190 J
08/19/2020	85.5	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J0	<3.00	
MW-23-D2R	01/12/2016	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	06/20/2016	26	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/05/2017	8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	72	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/12/2017	150 E	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 2.0
	07/12/2018	8.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	05/09/2019	8.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	09/13/2019	63	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	12/05/2019	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/19/2020	42.2	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J0	<3.00
MW-24-D1R	01/13/2016	220	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	99	< 10
	06/21/2016	160	1.3 J	< 4.0	< 4.0	< 4.0	< 4.0	11	< 4.0	< 4.0	< 4.0	35	9.3
	10/26/2016	140 E	0.64 J	< 1.0	< 1.0	< 1.0	0.68 J	6.5	< 1.0	< 1.0	< 1.0	33	7.2
	10/26/2016	120 E	0.66 J	< 1.0	< 1.0	< 1.0	0.64 J	6.8	< 1.0	< 1.0	< 1.0	15	6.6
	10/26/2016	81	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	07/12/2018	290	< 8.0	< 8.0	< 8.0	< 8.0	23	22	< 8.0	< 8.0	< 8.0	160	29
	10/16/2018	270	< 25	< 25	< 5.0	< 5.0	17	12	< 5.0	< 5.0	< 5.0	22	25
	05/09/2019	65	< 1.0	< 1.0	< 1.0	< 1.0	1.5	2.0	< 1.0	< 1.0	< 1.0	1.5	3.6
	09/13/2019	210 [200]	0.63 J [0.57 J]	< 1.0 [1.0]	< 1.0 [1.0]	< 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]
	12/05/2019	180 [210]	1.0	< 1.0 [1.0]	< 1.0 [1.0]	< 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]
	02/11/2020	210 [220]	< 1.0 [0.57 J]	< 1.0 [1.0]	< 1.0 [1.0]	< 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]
	06/09/2020	195 [255]	<5.00 [5.00]	<25.0 [25.0]	<5.00 [5.00]	<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]
	08/19/2020	220 [206]	<5.00 [5.00]	<25.0 [25.0]	<5.00 [5.00]	<5.00 [5.00]	<5.00 [5.00]	12.9 [13.2]	<5.00	<5.00 [5.00]	<25.0 [25.0]	<5.00 J0 [5.00 J0]	26.9 [26.3]
	MW-24-D2	01/13/2016	260	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	180
01/13/2016		250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	170	< 10
06/21/2016		140 E	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.98 J	< 1.0	< 1.0	< 1.0	38	< 2.0
10/25/2016		120	< 4.0	120	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0
10/25/2016		270	< 5.0	84 F1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	280 F1	< 10

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Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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-24-D2 (cont.)	07/05/2017	220	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	250 F1	< 16
	08/27/2017	87	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	72	< 16
	10/11/2017	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	18	< 4.0
	07/12/2018	2.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	10/17/2018	2	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 3.0
	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	< 2.0
	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	< 2.0
	12/05/2019	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	02/11/2020	47	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
06/09/2020	136	<1.00	<5.00	<1.00	<1.00 J4	<1.00	0.716 J	<1.00	<1.00 J4	<5.00	0.269 J	<3.00	
08/18/2020	76.4	<1.00	<5.00	<1.00	<1.00	<1.00	0.359 J	<1.00	<1.00	<5.00	<1.00 J0	<3.00	
MW-24-VDR	07/12/2018	4.2	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/17/2018	2.9	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 3.0
	05/09/2019	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 2.0
	09/13/2019	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 2.0
	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	< 2.0
	02/11/2020	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/09/2020	0.998 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00
	08/18/2020	1.16	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J0	<3.00
MW-26-D1	01/12/2016	380	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16	< 10
	06/22/2016	340	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0
	10/25/2016	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18	< 20
	10/25/2016	390	< 4.0	3.6 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	51	< 8.0
	07/05/2017	290	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	28	< 20
	08/27/2017	240	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
	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	< 4.0
	07/13/2018	220 E	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	13	< 4.0
	10/17/2018	110	< 5.0	< 5.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	09/13/2019	86	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	1.0	< 1.0	< 1.0	< 1.0	19	< 2.0
	12/06/2019	77	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	0.74 J	< 1.0	< 1.0	< 1.0	12	< 2.0
	02/11/2020	80	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	0.92 J	< 1.0	< 1.0	< 1.0	26	< 2.0
	06/10/2020	115	<1.00	<5.00	<1.00	<1.00	0.516 J	2.36	<1.00	<1.00	<5.00	79.3	1.74 J
08/19/2020	97.4	<1.00	<5.00	<1.00	<1.00	<1.00	1.57	<1.00	<1.00	<5.00	39.0 J0	1.02 J	
MW-26-D2	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	< 10
	06/22/2016	59	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 2.0
	10/25/2016	85	< 2.0	15	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	10/25/2016	43	< 2.0	81	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	< 2.0
	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	< 16
	10/11/2017	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	10/17/2018	76	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
05/09/2019	84	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.90 J	< 1.0	0.50 J	< 1.0	1.5	< 2.0	

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Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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-26-D2 (cont.)	09/13/2019	60	< 1.0	0.44 J	< 1.0	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	1.0 U	< 1.0	< 2.0
	12/06/2019	29	< 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	52	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/10/2020	105	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.218 J
	08/19/2020	64.4	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00
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	< 2.0
	06/22/2016	0.96 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
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	< 10
	06/21/2016	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	< 2.0
	07/05/2017	84	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	28	< 4.0
	08/27/2017	100	< 2.0	0.94 J	< 2.0	< 2.0	< 2.0	5	< 2.0	< 2.0	< 2.0	110	< 4.0
	07/13/2018	62	< 2.0	< 2.0	< 2.0	< 2.0	1.6 J	4.1	< 2.0	< 2.0	< 2.0	88	< 4.0
	10/18/2018	38	< 5.0	< 5.0	< 1.0	< 1.0	1	< 1.0	< 1.0	0.26 J	< 1.0	70	< 3.0
	05/10/2019	18	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	0.96 J	< 1.0	< 1.0	< 1.0	17	< 2.0
	09/14/2019	33	< 1.0	< 1.0	< 1.0	< 1.0	1.2	2.3	< 1.0	< 1.0	< 1.0	25	1.2 J
	12/05/2019	39	< 1.0	< 1.0	< 1.0	< 1.0	1.7	3.6	< 1.0	0.37 J	1.0 U	61	1.6 J
	08/19/2020	26.0	<5.00	<25.0	<5.00	<5.00	<5.00	1.52 J	<5.00	<5.00	<25.0	33.6 J0	1.12 J
	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
06/21/2016		8.1	26	5.7	< 4.0	< 4.0	17	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	68
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	< 2.0
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	< 2.0
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	< 2.0
07/13/2018		3.4 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
10/18/2018		< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
05/10/2019		7.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
09/14/2019		9.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
12/05/2019		4.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
02/12/2020		4.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
06/10/2020		0.843 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	0.181 J
08/19/2020		1.21	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00
MW-28-D1	06/24/2016	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	07/28/2016	4.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
	07/05/2017	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	08/27/2017	6.6	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/11/2017	4.8	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0
	10/17/2018	9.5	< 5.0	< 5.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6 J
	05/09/2019	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J
	09/13/2019	22	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	2.2
	12/05/2019	21	< 1.0	< 1.0	< 1.0	< 1.0	0.53 J	0.25 J	< 1.0	< 1.0	< 1.0	0.68 J	1.9 J
	02/11/2020	34	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	0.35 J	< 1.0	< 1.0	< 1.0	1.7	3
	06/09/2020	20.1	<1.00	<5.00	<1.00	<1.00 J4	0.578 J	0.205 J	<1.00	<1.00 J4	<5.00	0.625 J	3.11
08/19/2020	16.5	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.02 J	

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics											
		Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)
NYSDEC TOGS 1.1.1		10	NE	5	5	5	5	5	0.4	5	5	2	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	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	< 2.0
	07/28/2016	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 2.0
	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	< 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	< 2.0
	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	< 8.0
	10/17/2018	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
	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	< 2.0
	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	< 2.0
	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	< 2.0
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	< 2.0	
06/09/2020	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	
08/19/2020	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	
MW-29-D1	01/14/2016	34	5.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	06/21/2016	23	3.8	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2
	10/26/2016	44	10	< 1.0	< 1.0	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.7
	10/26/2016	23	2.5	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4
	07/05/2017	71	1.8 J	< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.7 J
	08/27/2017	28	5.8	< 2.0	< 2.0	< 2.0	1.7 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.3
	10/12/2017	20	1.5 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.3 J
	07/13/2018	39	11	< 4.0	< 4.0	< 4.0	3.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	5.5 J
	10/18/2018	33	11	< 5.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.1
	05/10/2019	51	8.6	< 1.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3
	09/14/2019	18	1.2	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	12/06/2019	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	02/12/2020	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
06/10/2020	22.7	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	
08/19/2020	29.5	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	
MW-29-D2	01/14/2016	66	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/21/2016	51	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-29-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
	06/21/2016	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-30-D1	01/14/2016	100 E	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
	06/22/2016	53	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-30-D2	01/14/2016	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	01/14/2016	8.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
	06/22/2016	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-30-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
	06/22/2016	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
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	< 2.0
	06/22/2016	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
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	< 2.0
	06/22/2016	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
AMW-12	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMW-13-D1	06/24/2016	NA	NA	NA	NA	3,500	510 B	NA	569,000 B	5,69,000 B	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMW-13-D2	06/23/2016	NA	NA	NA	NA	2,700	740 B	NA	1100 B	7,32,000 B	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMW-13-VD	06/23/2016	NA	NA	NA	NA	26,100	1100 B	NA	1100 B	7,32,000 B	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMW-14-D1	06/24/2016	NA	NA	NA	NA	410	370 B	NA	< 140	8,86,000 B	NA	NA
	07/26/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	130	< 150	< 140	1,100	4,700	48	16,90,000 ^	NA	7,16,000 B	3,060	4.5
	08/27/2017	79	< 330	200 J	550	5,200	49 B	1,730,000	NA	5,63,000 B	3,130	5.2
	10/11/2017	23	< 170	190	580	4,400	48 B	1,590,000	NA	563,000	1,860	4.4
	07/12/2018	42	< 660	260 J	2,000	1,600	14 B	975,000	NA	6,23,000 B	2,970	1.5
	10/17/2018	120 B	< 330	< 310	1,600	5,000	55 B	1,560,000	NA	673,000	3,620	4.7
	05/10/2019	73	150 J	440	1,900	5,780	94.9	1,740,000	NA	805,000	3,700	5.8
	09/13/2019	150	<83	<77	3,600	3,630	70.2	1,680,000	NA	779,000	3,000	3.1
	12/05/2019	160	13	210	3,800	6,940	59	1,100,000	NA	582,000	2,100	6.9
	02/12/2020	100 B	160	690	3,000 B	5,170	41.1	967,000	NA	386,000	2,400	5
	06/10/2020	43.1 T8	<13.0	86.3	3,200	1,800	33.3	1,380,000	NA	613,000	2,750	0.334 T8
	08/19/2020	42,500 T8	378	176	3,340	8,480	131	1,930,000	NA	678	2,950	6.97 T8
AMW-14-D2	06/23/2016	NA	NA	NA	NA	6,600	510 B	NA	740 B	7,40,000 B	NA	NA
	07/26/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/2017	18	< 83	< 77	210	34 J	16 B	13,500	NA	4,39,000 B	4,930	< 0.10
	10/11/2017	100	< 170	< 150	1,200	17,300	760 B	3,260,000	NA	830,000	4,070	17.3
	07/12/2018	120	< 330	< 310	970	2,500	78 B	2,210,000	NA	7,85,000 B	4,380	2.5
	10/17/2018	150 B	< 330	< 310	2,200	2,700	100 B	2,230,000	NA	4,85,000 B	4,510	2.7
	05/10/2019	150	< 330	< 310	1,900	548	80.1	2,080,000	NA	822,000	4,200	<0.10
	09/13/2019	160	<83	<77	2,600	1,870	86.3	2,070,000	NA	823,000	3,400	1.3
	12/05/2019	170	0.74 J	< 3.0	2,200	6,830	135	2,380,000	NA	727,000	4,200	6.5
	02/12/2020	120 B	1.1 J	< 3.0	1,800 B	5,590	116	1,630,000	NA	810,000	4,500	4.7
	06/10/2020	69.7 T8	<13.0	<13.0	2,070	5,070	119	1,990,000	NA	744,000	4,190	2.71 T8
	08/19/2020	55,800 T8	<13.0	<13.0	1670	17,800	340	2,510,000	NA	832	4,380	16.9 T8
AMW-14-VD	06/23/2016	NA	NA	NA	NA	37,800	720 B	NA	427	427,000	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	120	< 7.5	< 7.0	20	11,300	300	48,00,000 ^	NA	4,40,000 B	15,200	11.3
	08/27/2017	100	< 7.5	< 7.0	18	17,000	420 B	9,160,000	NA	4,15,000 B	15,400	12.3
	10/11/2017	82	< 7.5	< 7.0	48	16,400	390 B	8,680,000	NA	454,000	16,200	14.8
	07/12/2018	120	< 7.5	< 7.0	27	18,400	410 B	8,660,000	NA	4,72,000 B	19,400	18.4
	10/17/2018	110 B	< 7.5	< 7.0	24	18,500	390 B	9,100,000	NA	4,09,000 B	16,300	18.5
	05/10/2019	130	<7.5 H	<7.0 H	12 H	14,700	387	71,50,000 B	NA	493,000	110,000	14.4
	09/13/2019	140	<7.5	<7.0	20	15,200	376	6,810,000	NA	493,000	14,000	13.8

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
AMW-14-VD (cont.)	12/05/2019	130	< 4.0	<3.0	33	18,800	432	8,960,000	NA	493,000	17,000	18.7
	02/12/2020	100 B	< 4.0	< 3.0	28 B	12,800	339	5,740,000	NA	495,000	15,000	12.1
	06/10/2020	88.9 T8	<13.0	<13.0	467	17,600	381	8,070,000	NA	528,000	18,000	<0.100 T8
	08/20/2020	82,100 T8	<13.0	<13.0	26.4	16700	389	8,790,000	NA	527	17,000	1.82 T8
AMW-15-D1	06/23/2016	NA	NA	NA	NA	2,200	500 B	NA	602	602,000	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/26/2016	NA	NA	NA	NA	1,900 B	70 B	NA	130	130,000	NA	NA
	10/26/2016	NA	NA	NA	NA	95 B	110 B	NA	528	528,000	NA	NA
	07/05/2017	110	< 150	< 140	400	2,100	84	17,50,000 ^	NA	597,000	73.2	2.1
	08/27/2017	27	92 J	830	4,000	12,400	170 B	1,520,000	NA	4,71,000 B	2,480	12.4
	10/11/2017	34	< 330	470	2,400	6,900	100 B	17,10,000 ^	NA	641,000	2,760	6.9
	10/17/2018	40	< 660	< 620	5,100	3,900	320	989,000	NA	442,000	1,910	3.8
	05/09/2019	52	<830	<770	3,200	3,340	335	1,170,000	NA	422,000	2,500	3.3
	09/13/2019	47	290 J	150 J	4,000	3,740	311	1,160,000	NA	254,000	1,700	1.5
	12/05/2019	39	490	550	6,200	3,550	243	1,200,000	NA	424,000	2,000	3.2
	02/11/2020	20 B	89	49	700 B	4,740	303	1,050,000	NA	206,000	1,800	3.3
	06/10/2020	<20.0 T8	775	165	6,590	512	150	1,050,000	NA	393,000	2,010	<0.050 T8
	08/19/2020	<20000 T8	550	27.5	4,380	1,320	126	1,460,000	NA	442	1990	0.836 T8
AMW-15-D2	06/23/2016	NA	NA	NA	NA	110	5.8 B	NA	50 B	1,81,000 B	NA	NA
	06/23/2016	NA	NA	NA	NA	120	6.3 B	NA	185	185,000	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/26/2016	NA	NA	NA	NA	50 B	85 B	NA	99.9	99,900	NA	NA
	10/26/2016	NA	NA	NA	NA	< 50	98 B	NA	600	600,000	NA	NA
	07/05/2017	98	< 150	< 140	430	700	110	20,90,000 ^	NA	687,000	3,700	0.53
	08/27/2017	94	< 170	37 J	880	3,500	140 B	2,200,000	NA	6,73,000 B	3,650	3.5
	10/11/2017	68	< 170	< 150	280	4,500	130 B	21,50,000 ^	NA	811,000	3,710 F1	4.5
	10/17/2018	110	< 330	< 310	560	750	55	2,130,000	NA	461,000	3,790	0.75
	05/10/2019	130	<170	<150	520	328	72	2,030,000	NA	672,000	4,200	0.24
	09/13/2019	140	<170	<150	680	493	54.6	2,030,000	NA	649,000	3,800	0.35
	12/05/2019	120	1.3 J	3 U	800	739	62.7	1,870,000	NA	636,000	4,000	0.46
	02/11/2020	97 B	1.9 J	< 3.0	690 B	978	69.9	1,820,000	NA	651,000	4,200	0.79
	06/09/2020	39.8 T8	<13.0	<13.0	920	595	75.7	1,580,000	NA	610,000	3,750	<0.050 T8
08/19/2020	46,600 T8	<13.0	<13.0	409	10,500	150	2,230,000	NA	413	2410	5.04 T8	
AMW-15-D3	06/23/2016	NA	NA	NA	NA	98	250 B	NA	2,980,000 ^	6,17,000 B	NA	NA
	06/23/2016	NA	NA	NA	NA	120	240 B	NA	< 5	12,200 B	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/2017	5.1	< 330	< 310	2,400	2,300	450 B	29,80,000 ^	NA	4,08,000 B	4,230	2.3
	10/11/2017	< 5	< 170	< 150	610	450	99 B	25,00,000 ^	NA	508,000	7,530	0.45
	07/13/2018	7.6	< 330	< 310	1,500	3,100	1,100 B	3,870,000	NA	5,18,000 B	4,670	3.1
	10/17/2018	100	< 170	< 150	2,800	260	200	2,610,000	NA	108,000	7,380	0.26
	05/10/2019	140	<330	<310	1,600	301	222	2,730,000	NA	616,000	8,800	0.30
	09/13/2019	130	< 170	< 150	1,400	612	231	2,720,000	NA	646,000	4,400	0.40

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
AMW-15-D3 (cont.)	12/05/2019	100	< 4.0	< 3.0	1,400	349	97.4	1,550,000	NA	594,000	5,300	0.35
	02/11/2020	85 B	3.1 J	< 3.0	1,100 B	3,631	106	1,330,000	NA	626,000	2,600	3.10
	06/09/2020	29.8 T8	<13.0	<13.0	1,340	1,130	138	1,690,000	NA	676,000	4,630	0.605 T8
	08/19/2020	52,200 T8	19.0	<13.0	2,800	3,030	871	3,930,000	NA	479	8160	2.8 T8
AMW-15-VD	06/23/2016	NA	NA	NA	NA	4,200	200 B	NA	303	303,000	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/2017	31	< 7.5	< 7.0	24	11,800	350 B	8,910,000	NA	135,000 B	16,100	11.5
	10/11/2017	40	< 7.5	< 7.0	8	11,700	340 B	91,80,000 ^	NA	329,000	16,000	11.7
	07/13/2018	41	< 7.5	< 7.0	37	10,600	320 B	8,290,000	NA	3,57,000 B	19,200	10.6
	10/17/2018	37	< 7.5	< 7.0	27	10,700	310	8,770,000	NA	271,000	13,200	10.7
	05/10/2019	17	<7.5 H	<7.0 H	25 H	3,600	287	8,560,000	NA	432,000	18,000	3.6
	09/13/2019	49	<7.5	<7.0	22	7,650	192	5,240,000	NA	429,000	16,000	7.2
	12/05/2019	22	< 4.0	< 3.0	51	5,150	220	6,360,000	NA	478,000	17,000	5
	02/11/2020	11 B	< 4.0	< 3.0	38 B	2,850	157	4,770,000	NA	468,000	15,000	1.5
	06/09/2020	<20.0 T8	<13.0	<13.0	54.9	5,330	213	6,680,000	NA	517,000	18,000	<0.100 T8
	08/19/2020	29,500 T8	<13.0	<13.0	44.9	6,080	230	6,370,000	NA	509	17,000	<0.1 T8
AMW-3	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	16,200	1,400 B	NA	351	351,000	NA	NA
AMW-7R	01/12/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	170	74 B	NA	2,900 B	1,99,000 B	NA	NA
	07/11/2018	82	< 330	< 310	3,500	20,000	2,500 B	199,000	NA	8,81,000 B	253	19.7
	10/17/2018	94 B	< 330	< 310	5,800	12,500	2,900 B	168,000	NA	997,000	192	12.5
	05/10/2019	94	< 330 UH	< 310 UH	3,100 H	8,080	2,770	105,000	NA	558,000	120 F1	8.1
	09/14/2019	110	<170	<150	3,600	6,840	2,770	95,700	NA	651,000	62	6
	12/06/2019	47	1.6 J	< 3.0	6,200	4,790	1,420	93,300	NA	462,000	80	4.7
	02/12/2020	52 B	2.4 J	< 3.0	5,500 B	24,900	2,730	86,900	NA	597,000	85	23.2
	06/09/2020	38.1 T8	<13.0	<13.0	9,370	16,000	2,270	93,200	NA	516,000	100	4.63 T8
08/19/2020	46300 T8	<13.0	<13.0	3550	94900	3080	113,000	NA	656	86.6	83.6 T8	
ASB-2	06/06/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ASB-3	06/08/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ASB-4	06/07/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ASB-5	06/02/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ASB-7	06/02/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18R	06/22/2016	NA	NA	NA	NA	11,500 B	470 B	NA	20,000 B	5,15,000 B	NA	NA
	07/11/2018	2.2 J	< 660	< 620	3,800	1,400	17 B	161,000	NA	1,84,000 B	367	1.3
	10/17/2018	11 B	< 660	< 620	9,700	450	26 B	193,000	NA	365,000	259	0.45
	09/14/2019	32	<660	<620	13,000	11,700	110	310,000	NA	386,000	480	8.2
	12/05/2019	3 J	21	0.81 J	16,000	3,100	30.8	323,000	NA	225,000	400	2.8
	02/12/2020	3.9 J B	< 4.0	< 3.0	89	9,770	49.9	45,100	NA	24,400	77	9.6
	06/09/2020	<20.0 T8	8.80 J	<13.0	5,640	5,240	28.9	204,000	NA	101,000	269	<0.100 T8

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Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
MW-23-D1R	10/26/2016	NA	NA	NA	NA	< 50	21 B	NA	555	555,000	NA	NA
	10/26/2016	NA	NA	NA	NA	240 B	670 B	NA	525	525,000	NA	NA
	01/12/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/2016	NA	NA	NA	NA	660	690 B	NA	485	485,000	NA	NA
	07/05/2017	82	< 150	< 140	150	17,100	3,100	11,90,000 ^	NA	500,000	1,970	17.1
	08/27/2017	75	< 83	< 77	1,500	33,900	2200 B	11,90,000 ^	NA	5,12,000 B	2,190	31.9
	10/12/2017	55	< 170	< 150	1,300	3,800	1000 B	12,30,000 ^	NA	562,000	2,270	3.8
	07/12/2018	64	< 330	< 310	4,800	4,300	810 B	1,360,000	NA	4,95,000 B	2,250	4
	10/17/2018	63	< 660	< 620	3,600	1,900	930	1,220,000	NA	360,000	2,260	1.9
	09/13/2019	68	<83	<77	1,400	1,460	636	971,000	NA	467,000	2,000	1.1
	12/05/2019	660	8.2	< 3.0	2,100	2,020	852	389,000	NA	309,000	1,300	1.8
	02/11/2020	10 B	3.3 J	< 3.0	770 B	2,650	191	474,000	NA	173,000	730	2.5
	06/10/2020	29.6 T8	6.78 J	<13.0	1,560	1,430	511	1,240,000	NA	320,000	1,690	<0.050 T8
	08/19/2020	41,200 T8	6.95 J	<13.1	1,780	6,320	1,260	1,300,000	NA	543	2,340	1.44 T8
MW-23-D2R	01/12/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/2016	NA	NA	NA	NA	40 J	110 B	NA	543	543,000	NA	NA
	07/05/2017	130	< 38	< 35	73	4,400	210	21,90,000 ^	NA	520,000	5,260	4.2
	08/27/2017	110	< 83	< 77	360	1,800	170 B	19,30,000 ^	NA	4,34,000 B	5,420	1.8
	10/12/2017	100	< 170	< 150	200	2,800	140 B	25,70,000 ^	NA	654,000	4,460	2.8
	07/12/2018	32	< 170	< 150	290	1,660	279	1,930,000	NA	587,000	3,800	1.4
	05/09/2019	32	< 170	< 150	290	1,660	279	1,930,000	NA	587,000	3,800	1.4
	09/13/2019	140	< 170	< 150	700	25,700	2,350	1,600,000	NA	415,000	2,500	21.6
	12/05/2019	69	2.9 J	< 3.0	1,500	26,100	2,120	1,410,000	NA	349,000	2,400	26.1
08/19/2020	54,100 T8	<13.0	<13.0	1,190	46,200	290	2,340,000	NA	505	3,710	43.4 T8	
MW-24-D1R	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	32 J	60 B	NA	550 J	6,42,000 B	NA	NA
	10/26/2016	NA	NA	NA	NA	< 50	49 B	NA	526	526,000	NA	NA
	10/26/2016	NA	NA	NA	NA	58 B	8.9 B	NA	324	324,000	NA	NA
	10/26/2016	NA	NA	NA	NA	24 J B	59 B	NA	577	577,000	NA	NA
	07/12/2018	67	130 J	1,100	5,900	10,100	120 B	2,140,000	NA	8,75,000 B	4,220	10.1
	10/16/2018	59	< 660	550 J	6,000	2,900	91	1,070,000	NA	583,000	2,370	2.9
	05/09/2019	98	< 330	< 310	1,600	4,120	79.6	1,720,000	NA	572,000	3,900	3.3
	09/13/2019	36 [51]	750 [730]	100 J [99 J]	7,300 [7,700]	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]	1.9 [3.5]
	12/05/2019	30 [60]	320 [880]	88 [280]	2,400 [8,400]	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]	1.3 [1.3]
	02/11/2020	57 B [57 B]	520 [520]	110 [270]	4,500 B [5900]	196 [426]	13.1 J [15]	13,70,000 [15,40,000]	NA	3,78,000 [5,30,000]	2,300 [2,500]	0.2 [0.26]
	06/09/2020	47.8 T8 [38.3 T8]	419 [549]	230 [147]	5,930 [6,460]	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]	1.02 T8 [1.67 T8]
	08/19/2020	47,000 T8 [46,300 T8]	589 [566]	116 [111]	6,530 [6,280]	674 [819]	9.41 J [14.6]	14,40,000 [14,70,000]	NA	423 [485]	2,360 [2,390]	0.454 T8 [0.576 T8]
MW-24-D2	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	40 J	55 B	NA	298,000 B	7,41,000 B	NA	NA
	10/25/2016	NA	NA	NA	NA	49 J	62	NA	512	512,000	NA	NA
	10/25/2016	NA	NA	NA	NA	< 50	56	NA	759	759,000	NA	NA

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Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
MW-24-D2 (cont.)	07/05/2017	130	< 150	< 140	130	1,800	88	25,20,000 ^	NA	667,000	4,060	1.8
	08/27/2017	110	< 170	< 150	980	6,600	160 B	2,260,000	NA	7,74,000 B	4,100	6.6
	10/11/2017	54	< 170	< 150	410	5,500	140 B	23,80,000 ^	NA	804,000	3,720	5.5
	07/12/2018	15	< 7.5	< 7.0	44	1,100	33 B	94,900	NA	1,14,000 B	182	1.1
	10/17/2018	5.7	< 170	< 150	370	610	32	1,08,000 ^	NA	102,000	201	0.61
	05/09/2019	5.0	< 7.5	< 7.0	< 4.0	391	7.7 J	100,000	NA	112,000	89	0.39
	09/13/2019	15.0	< 7.5	< 7.0	< 4.0	2,160	35.6	81,400	NA	108,000	49	2
	12/05/2019	26	1.5 J	0.57 J	270	2,090	58.7	366,000	NA	190,000	550	1.9
	02/11/2020	8 B	2.7 J	< 3.0	210 B	1,450	22.2	349,000	NA	482,000	340	1.2
06/09/2020	<20.0 T8	25.3	<13.0	2,180	380	24.8	471,000	NA	267,000	805	<0.050 T8	
08/18/2020	<20,000 T8	13.7	<13.0	1,200	436	32.8	518,000	NA	235	728	<0.05 T8	
MW-24-VDR	07/12/2018	89	2.1 J	2.3 J	160	37900	910 B	8,960,000	NA	4,54,000 B	16,000	37.8
	10/17/2018	79	< 7.5	< 7.0	120	26,100	740	8,730,000	NA	416,000	13,100	26.1
	05/09/2019	92	< 83	< 77	13 J	25,200	597	6,100,000	NA	461,000	16,000	25.2
	09/13/2019	92	<7.5	<7.0	26	8,910	235	2,520,000	NA	295,000	7,300	8.2
	12/05/2019	3.8 J	< 4.0	1.7 J	28	36,500	694	9,030,000	NA	446,000	17,000	36.5
	02/11/2020	85 B	< 4.0	<3.0	40 B	31,500	523	7,000,000	NA	474,000	15,000	29.5
	06/09/2020	57.7 T8	<13.0	<13.0	77.0	37,100	454	7,320,000	NA	337,000	13,700	<0.100 T8
	08/18/2020	75,500 T8	<13.0	<13.0	55.8	44,900	578	8,910,000	NA	332	12,800	12.8 T8
MW-26-D1	01/12/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	< 50	35 B	NA	569,000 B	5,69,000 B	NA	NA
	10/25/2016	NA	NA	NA	NA	< 50	25	NA	479	479,000	NA	NA
	10/25/2016	NA	NA	NA	NA	< 50	37	NA	591	591,000	NA	NA
	07/05/2017	120	< 150	< 140	250	230	41	15,70,000 ^	NA	542,000	2,520	0.23
	08/27/2017	95	< 170	< 150	1,200	640	48 B	1,500,000	NA	5,32,000 B	2,530	0.64
	10/11/2017	10	< 7.5	< 7.0	10	190	75 B	304,000	NA	177,000	483	0.19
	07/13/2018	110	< 330	< 310	2,900	320	35 B	1,640,000	NA	558,000	2,810	0.32
	10/17/2018	65 B	< 170	< 150	1,800	280	24 B	1,510,000	NA	416,000	2,540	0.28
	09/13/2019	79	< 170	< 150	4,100	93.9 J	19.2	1,400,000	NA	542,000	3,000	<0.10
	12/06/2019	64	5.3	21	2,400	364	18	1,260,000	NA	405,000	2,000	0.25
	02/11/2020	45 H B	4.9	21	1,900 B	1,080	25.6	1,440,000	NA	405,000	2,100	0.51
	06/10/2020	72.0 T8	15.0	65.8	3,260	553	21.4	1,300,000	NA	438,000	2,400	<0.050 T8
08/19/2020	34,800 T8	7.93 J	23.2	2,030	1,340	31.4	1,370,000	NA	500	2,360	1.01 T8	
MW-26-D2	01/12/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	490 B	700 B	NA	344	344,000	NA	NA
	10/25/2016	NA	NA	NA	NA	55	63	NA	NA	NA	NA	NA
	10/25/2016	NA	NA	NA	NA	< 50	140	NA	653	653,000	NA	NA
	07/05/2017	130	< 7.5	< 7.0	76	970	420	39,30,000 ^	NA	348,000	9,010	0.97
	08/27/2017	110	< 83	< 77	92	970	310 B	3,370,000	NA	379,000	7,980	0.97
	10/11/2017	55	< 170	< 150	670	1,100	160 B	2,770,000	NA	435,000	8,600	1.1
	10/17/2018	110 B	< 170	< 150	1,100	150	52 B	2,190,000	NA	509,000	3,820	0.15
	05/09/2019	130	< 660	< 620	750	466	75.2	2,420,000	NA	684,000	5,000	0.47

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		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
MW-26-D2 (cont.)	09/13/2019	150	<83	<77	1,000	207	65.6	2,270,000	NA	702,000	4,000	0.21
	12/06/2019	140	1.1 J	< 3.0	1,300	54.4 J	59.8	2,340,000	NA	628,000	4,000	< 0.1
	02/11/2020	83 B	0.8 J	< 3.0	710 B	348	88.8	2,500,000	NA	588,000	3,900	0.35
	06/10/2020	57.8 T8	<13.0	<13.0	1,340	84.3 J	68.3	2,190,000	NA	671,000	4,390	<0.050 T8
	08/19/2020	47,900 T8	<13.0	<13.0	360	402	99.5	2,280,000	NA	638	4,160	0.242 T8
MW-26-VD	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	74,000 B	2,600 B	NA	61 B	1,76,000 B	NA	NA
MW-27-D1R	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	430	200 B	NA	51,600	7,95,000 B	NA	NA
	07/05/2017	26	< 380	< 350	550	2,800	56	11,30,000 ^	NA	3,94,000 B	2,860	2.8
	08/27/2017	100	< 170	< 150	1,100	1,300	330 B	960,000	NA	884,000	5,640	1.3
	07/13/2018	140	< 660	< 620	3,700	8,200	170 B	1,690,000	NA	5,26,000 B	2,770	8
	10/18/2018	150 B	< 170	< 150	3,900	2,100	61 B	1,770,000	NA	725,000	3,890	2
	05/10/2019	97	< 83	< 77	1,600	51,600	456	1,900,000	NA	579,000	3,500	50.7
	09/14/2019	170	<330	<310	1,600	12,800	161	2,090,000	NA	724,000	3,400	12.4
	12/05/2019	170	5.5	40	2,600	1,310	51.9	1,920,000	NA	762,000	3,800	1.3
	08/19/2020	55,300 T8	<13.0	19.9	1,530	10,600	156	2,710,000	NA	945	5,060	0.178 T8
MW-27-D2	01/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	1,300	38 B	NA	940 B	2,79,000 B	NA	NA
	07/05/2017	130	< 75	< 70	53	12,400	550	26,90,000 ^	NA	4,08,000 B	6,330	12.4
	08/27/2017	100	< 83	< 77	180	11,600	1,200 B	31,40,000 ^	NA	303,000	9,140	11.6
	10/12/2017	81	< 170	< 150	350	9,500	1,700 B	44,60,000 ^	NA	374,000	8,290	9.1
	07/13/2018	140	< 330	< 310	1,500	4,600	340 B	2,530,000	NA	3,63,000 B	7,510	4.6
	10/18/2018	130 B	< 170	< 150	1,200	2,800	940 B	3,580,000	NA	195,000	8,300	2.8
	05/10/2019	66	< 170	< 150	310	902	197	505,000	NA	599,000	4,100	0.14
	09/14/2019	150	< 170	< 150	1,200	4,080	272	1,120,000	NA	638,000	3,500	3.5
	12/05/2019	150	< 4.0	< 3.0	1,600	1,190	174	1,620,000	NA	526,000	3,600	1.1
	02/12/2020	110 B	< 4.0	< 3.0	910 B	1,920	230	1,940,000	NA	511,000	3,800	1.4
	06/10/2020	98.7 T8	<13.0	<13.0	1,100	887	97.6	1,880,000	NA	496,000	4,660	<0.100 T8
	08/19/2020	75,400 T8	<13.0	<13.0	876	747	199	2,470,000	NA	397	3,690	<0.05 T8
MW-28-D1	06/24/2016	NA	NA	NA	NA	79	68 B	NA	667,000	7,45,000 B	NA	NA
	07/28/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	51	< 150	< 140	290	3,600	67	418,000 ^	NA	457,000	3,120	3.6
	08/27/2017	15	< 170	< 150	1,000	740	19 B	10,40,000 ^	NA	393,000	3,310	0.74
	10/11/2017	3.8 J	< 170	< 150	520	950	27 B	998,000	NA	196,000	1,530	0.95
	10/17/2018	8.9 B	< 330	< 310	1,500	980	22 B	386,000	NA	102,000	945	0.98
	05/09/2019	120	< 660	< 620	1,300	2,480	89	1,940,000	NA	667,000	3,300	1.9
	09/13/2019	160	<170	<150	1,600	511	63.1	1,970,000	NA	735,000	2,900	<0.10
	12/05/2019	75	33	15	2,500	169	10.4 J	874,000	NA	337,000	1,800	<0.10
	02/11/2020	73 B	25	11	1,800 B	253	49.4	1,160,000	NA	495,000	1,900	<0.10
	06/09/2020	26.5 T8	12.2 J	<13.0	1,140	226	47.8	1,360,000	NA	472,000	2,570	<0.050 T8
	08/19/2020	23,000 T8	<13.0	<13.0	361	167	57.7	1,410,000	NA	496	2,490	0.0216 JT8

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	GC Volatiles - RSK-175				Inorganics			General Chemistry			
		Carbon Dioxide	Ethane	Ethene	Methane	Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	Ferric Iron
NYSDEC TOGS 1.1.1		NE	NE	NE	NE	300	300	20,000	NE	NE	250	NE
Units		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L
MW-28-D2R	06/24/2016	NA	NA	NA	NA	52,800	1,100 B	NA	182	182,000	NA	NA
	07/28/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	120	< 7.5	< 7.0	67	6,800	340	38,10,000 ^	NA	334,000	9,090	6.7
	08/27/2017	120	< 83	< 77	62	6,000	500 B	5,340,000	NA	3,37,000 B	11,300 B	5.6
	10/11/2017	91	< 170	< 150	370	9,300	470 F1 B	4,750,000	NA	412,000	6,670	9.1
	07/13/2018	91	< 330	< 310	880	5,200	190 B	3,000,000	NA	4,68,000 B	4,010	5.2
	10/17/2018	140 B	< 170	< 150	240	2,200	710 B	4,670,000	NA	333,000	9,820	2.2
	05/09/2019	42	< 330	< 310	730	569	224	2,850,000	NA	385,000	7,600	0.37
	09/13/2019	160	<7.5	<7.0	620	450	241	2,700,000	NA	428,000	4,600	0.25
	12/06/2019	160	< 4.0	<3.0	310	463	989	4,430,000	NA	349,000	7,400	0.3
02/11/2020	100 B	< 4.0	< 3.0	1,000 B	252	184	1,620,000	NA	276,000	3,600	0.25	
06/09/2020	90.0 T8	<13.0	<13.0	239	5,050	1,730	4,130,000	NA	339,000	18,800	<0.100 T8	
08/19/2020	90,300 T8	<13.0	<13.0	212	48,300	855	5,750,000	NA	343	9,550	43.8 T8	
MW-29-D1	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	520	270 B	NA	4.3 J	5,67,000 B	NA	NA
	10/26/2016	NA	NA	NA	NA	220 B	250 B	NA	540	540,000	NA	NA
	10/26/2016	NA	NA	NA	NA	< 50	5.2 B	NA	547	547,000	NA	NA
	07/05/2017	180	< 300	< 280	680	460	350	9,51,000 ^	NA	556,000	1,610	0
	08/27/2017	150	< 660	< 620	11,000	2,400	150 B	24,70,000 ^	NA	5,60,000 B	1,580	2.4
	10/12/2017	140	< 170	< 150	5,200	3,400	300 B	8,93,000 ^	NA	619,000	1,530	3.4
	07/13/2018	180	< 660	< 620	15,000	1,300	340 B	988,000	NA	5,63,000 B	1,680	1.3
	10/18/2018	210 B	< 1700	< 1500	19,000	1,500	270 B	960,000	NA	535,000	1,550	1.5
	05/10/2019	190	< 83	< 77	9,300 E	1,450	470	839,000	NA	469,000	1,700	1.4
	09/14/2019	40	<170	<150	3,200	4,370	58.4	23,500	NA	40,100	58	4.3
	12/06/2019	28	1 J	< 3.0	1,100	673	32.1	75,900	NA	63,500	130	0.67
	02/12/2020	15 B	< 4.0	< 3.0	340 B	2,040	131	105,000	NA	62,700	160	1.8
	06/10/2020	53.4 T8	5.33 J	<13.0	10,700	741	161	643,000	NA	273,000	1,050	0.379 T8
08/19/2020	39,600 T8	<13.0	<13.0	6,710	1,360	172	574,000	NA	256	950	1.13 T8	
MW-29-D2	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	64	150 B	NA	430 B	4,53,000 B	NA	NA
MW-29-VD	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	390	62 B	NA	229 B	2,29,000 B	NA	NA
MW-30-D1	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	360 B	93 B	NA	841 B	8,41,000 B	NA	NA
MW-30-D2	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	< 50	110 B	NA	755 B	7,55,000 B	NA	NA
MW-30-VD	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	4,900 B	260 B	NA	713 B	7,13,000 B	NA	NA
MW-31-D1R	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	230 B	25 B	NA	221 B	2,21,000 B	NA	NA
MW-31-D2R	01/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	2,200 B	430 B	NA	508 B	5,08,000 B	NA	NA

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Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
AMW-12	01/14/2016	NA	NA	NA	NA	NA	NA	NA
AMW-13-D1	06/24/2016	NA	NA	NA	NA	170,000	11,900	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
AMW-13-D2	06/23/2016	NA	NA	NA	NA	250,000	2,600	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
AMW-13-VD	06/23/2016	NA	NA	NA	NA	1,860,000	< 100	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
AMW-14-D1	06/24/2016	NA	NA	NA	NA	103,000	48,000	NA
	07/26/2016	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	170 HF	< 50	< 0.050	NA	140,000	38,000	13,100 B
	08/27/2017	< 100	< 50	< 0.050	NA	251,000	56,400	10,600 B
	10/11/2017	< 100	< 50	< 0.050	NA	1,24,000 B	50,400	23,600 B
	07/12/2018	120 HF	< 50	< 0.050	NA	172,000	50,800	NA
	10/17/2018	260 HF	< 50	< 0.050	NA	1,98,000 B	48,400	NA
	05/10/2019	< 100 HF	80 J	< 0.10	NA	98,000	52,700	45,400 B
	09/13/2019	570 HF	14 J B	< 0.10	NA	240,000	64,600	22,100
	12/05/2019	< 100 HF	< 100	< 0.10	NA	130,000	62,600	21,100
	02/12/2020	150 HF	17 J H	< 0.1	NA	280,000	64,700	18,400
	06/10/2020	1,470 T8	--	--	< 1,000	219,000	< 50.0	19,200
	08/19/2020	1,500 T8	NA	NA	< 2,000	131,000	4.16	26,900
	AMW-14-D2	06/23/2016	NA	NA	NA	NA	263,000	22,500
07/26/2016		NA	NA	NA	NA	NA	NA	NA
07/27/2016		NA	NA	NA	NA	NA	NA	NA
08/27/2017		< 100	< 50	< 0.050	NA	507,000	4,200	7,800 B
10/11/2017		< 100	< 50	< 0.050	NA	2,10,000 B	27,200	11,600 B
07/12/2018		< 100	< 50	< 0.050	NA	315,000	56,000	NA
10/17/2018		< 100	< 50	< 0.050	NA	3,27,000 B	58,800	NA
05/10/2019		1,100 HF	49 J	< 0.10	NA	84,000	71,600	18,500 B
09/13/2019		550 HF	< 100	0.0092 J B	NA	120,000	60,800	19,200
12/05/2019		290 HF	< 100	< 0.10	NA	260,000	51,200	18,300
02/12/2020		850 HF	< 100	< 0.1	NA	310,000	59,700	16,700
06/10/2020		2,360 T8	NA	NA	< 1,000	270,000	< 50.0	14,500
08/19/2020		847 T8	NA	NA	< 2,000	182,000	1.01	16,200
AMW-14-VD		06/23/2016	NA	NA	NA	NA	1,780,000	< 100
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	< 100	< 50	< 0.050	NA	1,830,000	800 J	3,400 B
	08/27/2017	4,700 HF	< 50	< 0.050	NA	2,000,000	< 1,000	4,000 B
	10/11/2017	1,600 HF	< 50	< 0.050	NA	1,890,000	800 J	4,500 B
	07/12/2018	< 100	< 50	< 0.050	NA	1,870,000	5,200 F1	NA
	10/17/2018	< 100	< 50	< 0.050	NA	19,20,000 B	< 1,000	NA
	05/10/2019	300 HF	94 J	0.076 J	NA	2,000,000	< 1,000	18,300 B
	09/13/2019	1,400 HF	35 J B	0.027 J B	NA	1,700,000	830 J	8,500

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Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
AMW-14-VD (cont.)	12/05/2019	130 HF	< 100	0.020 J B	NA	2,800,000	1,200	9,300
	02/12/2020	680 HF	21 J B	0.019 J B	NA	2,000,000	< 1.0	7,900
	06/10/2020	17,800 T8	NA	NA	<100	1,920,000	<50.0	7,270
	08/20/2020	14,900 T8	NA	NA	<100	1,850,000	<0.05	8,160
AMW-15-D1	06/23/2016	NA	NA	NA	NA	166,000	20,500	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
	10/26/2016	NA	NA	NA	NA	63,100	8,000	NA
	10/26/2016	NA	NA	NA	NA	164,000	36,000	NA
	07/05/2017	< 100	< 50	< 0.050	NA	1,640,000	42,000	9,400 B
	08/27/2017	< 500	< 50	< 0.050	NA	156,000	53,200	53,400 B
	10/11/2017	< 200	< 50	< 0.050	NA	1,89,000 B	41,600	36,200 B
	10/17/2018	120 HF	79	< 0.050	NA	188,000	56,000	NA
	05/09/2019	<100 HF	430 J	0.38 J	NA	200,000	41,400	36,800 B
	09/13/2019	2,200 HF	< 100	0.029 J	NA	380,000	31,100	38,500
	12/05/2019	340 HF	< 100	<0.10	NA	180,000	30,700	40,800
	02/11/2020	1,400 HF	17 J H	0.017 J H	NA	380,000	11,500	26,300
	06/10/2020	662 T8	NA	NA	<1,000	331,000	51.0	31,800
	08/19/2020	481 T8	NA	NA	<10000	202,000	25.6	40,600
AMW-15-D2	06/23/2016	NA	NA	NA	NA	166,000	1,800	NA
	06/23/2016	NA	NA	NA	NA	165,000	1,900 F1	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
	10/26/2016	NA	NA	NA	NA	243,000	12,800	NA
	10/26/2016	NA	NA	NA	NA	216,000	36,000	NA
	07/05/2017	170 HF	< 50	< 0.050	NA	269,000	34,000	10,300 B
	08/27/2017	< 100	< 50	< 0.050	NA	237,000	58,000	10,900 B
	10/11/2017	< 100	< 50	< 0.050	NA	2,54,000 B	45,200	9,800 B
	10/17/2018	< 100	< 50	< 0.050	NA	2,62,000 B	48,000	NA
	05/10/2019	85 J HF	47 J	0.0070 J	NA	220,000	50,800	14,200 B
	09/13/2019	140 HF	< 100	<0.10	NA	330,000	55,100	14,800
	12/05/2019	280 HF	< 100	<0.10	NA	280,000	58,800	15,800
	02/11/2020	190 HF	< 100	<0.10	NA	380,000	54,600	13,700
	06/09/2020	1,460 T8	NA	NA	<1,000	301,000	186	12,000
08/19/2020	5,440 T8	NA	NA	<2000	166,000	0.214	12,300	
AMW-15-D3	06/23/2016	NA	NA	NA	NA	1,790,000	NA	NA
	06/23/2016	NA	NA	NA	NA	784,000	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
	08/27/2017	< 500	< 50	< 0.050	NA	495,000	16,400	34,300 B
	10/11/2017	< 100	< 50	< 0.050	NA	897,000 B	39,200	7,200 B
	07/13/2018	< 100	< 50	< 0.050	NA	482,000	22,800	NA
	10/17/2018	< 100	< 50	< 0.050	NA	916,000	35,600	NA
	05/10/2019	< 100	42 J	0.056 J	NA	980,000	41,400	14,400 B
	09/13/2019	210 HF	< 100	<0.10	NA	300,000	55,100	11,000

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Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
AMW-15-D3 (cont.)	12/05/2019	< 100	< 100	<0.10	NA	470,000	58,800	12,300
	02/11/2020	470 HF	< 500 H	< 0.5 H	NA	290,000	23,200	13,700
	06/09/2020	526 T8	NA	NA	<1,000	534,000	<50.0	13,700
	08/19/2020	229 T8	NA	NA	<500	919,000	6.8	20,100
AMW-15-VD	06/23/2016	NA	NA	NA	NA	1,810,000	< 100	NA
	07/27/2016	NA	NA	NA	NA	NA	NA	NA
	08/27/2017	280 HF	< 50	< 0.050	NA	2,140,000	< 1,000	3,500 B
	10/11/2017	< 100	< 50	< 0.050	NA	20,70,000 B	< 1,000	3,400 B
	07/13/2018	< 100	< 50	< 0.050	NA	1,890,000	800 J	NA
	10/17/2018	< 100	< 50	< 0.050	NA	15,30,000 B	< 1,000	NA
	05/10/2019	< 100*	< 100	0.035 J	NA	2,000,000	<1000	6,800 B
	09/13/2019	500 HF	< 100	0.011 J	NA	1,800,000	<1,000	6,900
	12/05/2019	130 HF	< 100 U F1	0.019 JB	NA	2,800,000	<1,000	7,700
	02/11/2020	370 HF	< 500 H	< 0.5 H	NA	2,000,000	< 1.0	6,500
	06/09/2020	6,390 T8	NA	NA	<100	1,990,000	<50.0	6,450 B
	08/19/2020	52,800 T8	NA	NA	<500	1,970,000	<0.05	7,560
AMW-3	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	970,000	5,300	NA
AMW-7R	01/12/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	82,300	5,200	NA
	07/11/2018	320 HF	< 50	< 0.050	NA	41,900	3,800	NA
	10/17/2018	< 100	< 50	< 0.050	NA	22,600 B	1,600	NA
	05/10/2019	< 100 HF	< 100	0.023 J	NA	82,000 F1	<1000	19,800
	09/14/2019	840 HF	<100	0.015 J B	NA	49,000	1,200	20,800
	12/06/2019	100 HF	25 J B	0.017 J	NA	84,000	1,900	88,400
	02/12/2020	1700 HF	23 J B	0.02 J B	NA	75,000	10,400	19,800
	06/09/2020	11,300 T8	NA	NA	<100	68,600	<50.0	20,500
	08/19/2020	11200 T8	NA	NA	<500	96,200	0.062	28,900
ASB-2	06/06/2016	NA	NA	NA	NA	NA	NA	NA
ASB-3	06/08/2016	NA	NA	NA	NA	NA	NA	NA
ASB-4	06/07/2016	NA	NA	NA	NA	NA	NA	NA
ASB-5	06/02/2016	NA	NA	NA	NA	NA	NA	NA
ASB-7	06/02/2016	NA	NA	NA	NA	NA	NA	NA
MW-18R	06/22/2016	NA	NA	NA	NA	27,800	< 100	NA
	07/11/2018	110 HF	< 50	< 0.050	NA	120,000	12,200	NA
	10/17/2018	< 100	< 50	< 0.050	NA	20,000 B	11,600	NA
	09/14/2019	3,500 HF	<100	0.024 J B	NA	86,000	14,800	95,400
	12/05/2019	0.28 HF	30 JB	0.029 J	NA	74,000	15,900	123,000
	02/12/2020	150 H F	160 B	0.053 J B	NA	14,000	910 J	55,000
	06/09/2020	5,360 T8	NA	NA	<1,000	87,100	70.0	57,700

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
MW-23-D1R	10/26/2016	NA	NA	NA	NA	148,000	6,400	NA
	10/26/2016	NA	NA	NA	NA	156,000	13,600	NA
	01/12/2016	NA	NA	NA	NA	NA	NA	NA
	06/20/2016	NA	NA	NA	NA	180,000	16,900 F1	NA
	07/05/2017	< 100	< 50	< 0.050	NA	259,000	8,400	16,100 B
	08/27/2017	2,000 HF	23 J H	< 0.050	NA	173,000	15,400	17,300 B
	10/12/2017	< 100	< 50	< 0.050	NA	1,78,000 B	26,800	15,400 B
	07/12/2018	260 HF	< 50	< 0.050	NA	149,000	28,800	NA
	10/17/2018	< 100	< 50	< 0.050	NA	177,000	25,200	NA
	09/13/2019	330 HF	26 J B	0.017 J B	NA	190,000	10,300	20,800
	12/05/2019	260 HF	37 JB	0.018 J	NA	130,000	3,500	22,300
	02/11/2020	120 HF	99 J H	0.018 J H	NA	130,000	8,800	7,500
	06/10/2020	1,460 T8	NA	NA	<1,000	213,000	39.0 J	18,200
08/19/2020	4,880 T8	NA	NA	<2,000	111,000	<0.05	21,600	
MW-23-D2R	01/12/2016	NA	NA	NA	NA	NA	NA	NA
	06/20/2016	NA	NA	NA	NA	317,000	700	NA
	07/05/2017	170 HF	< 50	< 0.050	NA	861,000	29,600	5,200 B
	08/27/2017	< 100	37 J H	< 0.050	NA	665,000	36,200	6,100 B
	10/12/2017	< 100	< 50	< 0.050	NA	4,78,000 B	20,000	9,700 B
	07/12/2018	240 HF	38 J	0.0045 J	NA	290,000	10,900	20,700 B
	05/09/2019	240 HF	38 J	0.0045 J	NA	290,000	10,900	20,700 B
	09/13/2019	4,100 HF	17 J B	0.025 J B	NA	160,000	34,100	17,100
	12/05/2019	< 100	69 JB	0.051 J	NA	160,000	3,800	18,900
08/19/2020	2,780 T8	NA	NA	<500	229,000	0.092	12,700	
MW-24-D1R	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	189,000	79,300	NA
	10/26/2016	NA	NA	NA	NA	217,000	64,000 F1	NA
	10/26/2016	NA	NA	NA	NA	248,000	60,000	NA
	10/26/2016	NA	NA	NA	NA	219,000	56,000	NA
	07/12/2018	< 100	< 50	< 0.050	NA	200,000	66,400	NA
	10/16/2018	< 100	< 50	< 0.050	NA	75,300	56,400	NA
	05/09/2019	860 HF	63 J	0.014 J	NA	250,000	41,400	15,400 B
	09/13/2019	230 HF	<100 [<100]	0.015 J [<0.10]	NA	3,20,000 [2,00,000]	29,200 [75,900]	36,100 [34,900]
	12/05/2019	290 HF	150 B [< 100]	0.17 B	NA	3,50,000 [1,30,000]	22,400 [92,800]	50,900 [25,900]
	02/11/2020	< 100 [170 H F]	16 J H [< 50]	< 0.1 [< 0.5]	NA	3,80,000 [3,40,000]	43,300 [66,900]	35,500 [29,600]
	06/09/2020	270 T8 [669 T8]	NA	NA	<1,000 [<1,000]	2,16,000 [2,73,000]	129 [<50.0]	31,100 [21,600]
	08/19/2020	220 T8 [243 T8]	NA	NA	<10,000 [<2,000]	2,04,000 [1,61,000]	0.58 [1.53]	36,000 [29,600]
MW-24-D2	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	270,000	92,200	NA
	10/25/2016	NA	NA	NA	NA	374,000	48,000	NA
	10/25/2016	NA	NA	NA	NA	270,000	64,000	NA

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
MW-24-D2 (cont.)	07/05/2017	< 100	< 50	< 0.050	NA	541,000	84,000	12,500 B
	08/27/2017	< 100	< 50	< 0.050	NA	346,000	61,800	11,600 B
	10/11/2017	< 100	< 50	< 0.050	NA	2,98,000 B	56,400	10,800 B
	07/12/2018	< 100	51 H	0.020 J H	NA	28,000	800 J	NA
	10/17/2018	< 100	< 50	< 0.050	NA	29,900	800 J	NA
	05/09/2019	< 100 HF	18 J	0.038 J	NA	9,100	< 1,000	6,300 B
	09/13/2019	160 HF	1,200	0.013 J	NA	9,900	< 1,000	6,000
	12/05/2019	180 HF	< 100	< 0.1	NA	55,000	12,100	59,700
	02/11/2020	220 HF	30 J H	0.016 J	NA	48,000	< 1.0	23,200
06/09/2020	492 T8	NA	NA	63.3 J	89,200	<50.0	13,700	
08/18/2020	1,160 T8	NA	NA	<500	98,300	<0.05	15,800	
MW-24-VDR	07/12/2018	100 HF	< 50	< 0.050	NA	1,640,000	< 1,000	NA
	10/17/2018	< 100	< 50	< 0.050	NA	1,300,000	< 1,000	NA
	05/09/2019	< 100 HF	10 J	0.063 J	NA	1,700,000	<1,000	7,700 B
	09/13/2019	700 HF	<100	0.010 J	NA	720,000	1,200	7,700
	12/05/2019	< 100 HF	< 100	< 0.10	NA	3,100,000	< 1,000	4,800
	02/11/2020	2000 HF	36 J H	0.013 J	NA	2,000,000	< 1,000	8,200
	06/09/2020	43,100 T8	NA	NA	<100	1,580,000	<50.0	7,030
	08/18/2020	32,100 T8	NA	NA	<100	1,510,000	<0.05	8,400
MW-26-D1	01/12/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	139,000	70,600 F1	NA
	10/25/2016	NA	NA	NA	NA	252,000	48,000	NA
	10/25/2016	NA	NA	NA	NA	131,000	56,000	NA
	07/05/2017	< 100	< 50	< 0.050	NA	313,000	44,000	9,100 B
	08/27/2017	< 100	< 50	< 0.050	NA	203,000	43,200	10,800 B
	10/11/2017	< 100	600	5.1	NA	69,200	< 1,000	22,900 B
	07/13/2018	< 100	< 50	< 0.050	NA	237,000	44,800	NA
	10/17/2018	< 100	< 50	< 0.050	NA	2,64,000 B	28,400	NA
	09/13/2019	170 HF	12 J B	0.012 J B	NA	98,000	23,600	33,000
	12/06/2019	110 HF	30 JB	0.010 J	NA	230,000	21,000	31,600
	02/11/2020	570 HF	NA	NA	NA	290,000	NA	32,800
	06/10/2020	557 T8	NA	NA	<1,000	343,000	123	28,100
	08/19/2020	336 T8	NA	NA	<500	185,000	125	31,500
MW-26-D2	01/12/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	1,200,000	1,700	NA
	10/25/2016	NA	NA	NA	NA	NA	40,000	NA
	10/25/2016	NA	NA	NA	NA	382,000	36,000	NA
	07/05/2017	< 100	< 50	< 0.050	NA	1,580,000	24,400	4,300 B
	08/27/2017	< 100	< 50	< 0.050	NA	1,100,000	16,000	4,800 B
	10/11/2017	< 100	28 J	< 0.050	NA	1,100,000	26,800	8,800 B
	10/17/2018	< 100	< 50	< 0.050	NA	3,61,000 B	25,600	NA
	05/09/2019	< 100 HF	21 J	< 0.10	NA	350,000	54,600	14,600 B

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
MW-26-D2 (cont.)	09/13/2019	<100 HF	<100	0.0071 J B	NA	280,000	57,000	14,900
	12/06/2019	270 HF	<100	< 0.10	NA	280,000	45,600	13,700
	02/11/2020	< 100 HF	18 J H	< 0.1	NA	420,000	28,200	15,400
	06/10/2020	279 T8	NA	NA	<1,000	368,000	282	13,200 B
	08/19/2020	160 T8	NA	NA	<500	288,000	6.6	17,800
MW-26-VD	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	497,000	6,000	NA
MW-27-D1R	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	290,000	97,300	NA
	07/05/2017	< 100	< 50	< 0.050	NA	308,000	14,400	13,700 B
	08/27/2017	< 100	< 50	< 0.050	NA	699,000	1,400	14,400 B
	07/13/2018	170 HF	< 50	< 0.050	NA	157,000	63,200	NA
	10/18/2018	91 J HF	< 50	< 0.050	NA	183,000	63,200	NA
	05/10/2019	910 HF	19 J	0.010 J	NA	260,000	37,600	17,600
	09/14/2019	420 HF	<100	0.0084 J B	NA	160,000	53,200	17,600
	12/05/2019	< 100	45 JB	< 0.10	NA	200,000	45,600	16,600
	08/19/2020	10,400 T8	NA	NA	<2,000	310,000	93.7	18,700
MW-27-D2	01/13/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	49,200	160	NA
	07/05/2017	< 100	< 50	< 0.050	NA	808,000	12,800	6,300 B
	08/27/2017	< 100	< 50	< 0.050	NA	1,300,000	16,600	4,800 B
	10/12/2017	450 HF	40 J	< 0.050	NA	11,20,000 B	8,800	4,700 B
	07/13/2018	< 100	< 50	< 0.050	NA	844,000	10,800	NA
	10/18/2018	< 100	< 50	< 0.050	NA	1,250,000	7,200	NA
	05/10/2019	760 HF	29 J	< 0.10	NA	250,000	24,400	15,200
	09/14/2019	630 HF	26 J B	0.013 J B	NA	250,000	32,200	12,700
	12/05/2019	120 HF	< 100	0.011 J	NA	280,000	22,000	12,000
	02/12/2020	480 HF F1	31 J B	0.02 J B	NA	400,000	14,100	10,100
	06/10/2020	4,450 T8	NA	NA	<1,000	485,000	<50.0	9,620
	08/19/2020	1,470 T8	NA	NA	<100 J6	367,000	0.047 J	8,900
MW-28-D1	06/24/2016	NA	NA	NA	NA	155,000	54,400	NA
	07/28/2016	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	< 100	< 50	< 0.050	NA	340,000	4,000	13,000 B
	08/27/2017	< 100	< 50	< 0.050	NA	349,000	18,200	14,400 B
	10/11/2017	< 100	< 50	< 0.050	NA	196,000	32,800	23,900 B
	10/17/2018	< 100	76	0.044 J	NA	231,000	7,200	NA
	05/09/2019	600 HF	< 100	0.016 J	NA	170,000	45,200	12,900 B
	09/13/2019	560 HF	<100	0.014 J B	NA	81,000	51,400	14,800
	12/05/2019	100 HF	21 JB	0.017 J	NA	280,000	1,600	17,300
	02/11/2020	280 HF	22 J H	0.018 J	NA	290,000	50,900	17,700
	06/09/2020	522 T8	NA	NA	<100	343,000	<50.0	15,300 B
	08/19/2020	145 T8	NA	NA	<100	304,000	<0.05	31,300

See Notes on Page 43.

Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	General Chemistry						
		Ferrous Iron	Nitrogen, Nitrate as N	Nitrogen, Nitrite	Nitrate-Nitrite	Sulfate (SO4)	Sulfide	Total Organic Carbon (TOC)
NYSDEC TOGS 1.1.1		NE	10,000	1	10,000	NE	NE	NE
Units		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
MW-28-D2R	06/24/2016	NA	NA	NA	NA	1,080,000	< 100	NA
	07/28/2016	NA	NA	NA	NA	NA	NA	NA
	07/05/2017	92 J HF	< 50	< 0.050	NA	1,620,000	2,400	4,000 B
	08/27/2017	420 HF	< 50	< 0.050	NA	1,370,000	4,000	4,800 B
	10/11/2017	160 HF	< 50	< 0.050	NA	938,000	3,600	4,500 B
	07/13/2018	< 100	< 50	< 0.050	NA	432,000	11,200	NA
	10/17/2018	< 100	260	< 0.050	NA	1,330,000	3,200	NA
	05/09/2019	200 HF	< 100	0.036 J	NA	870,000	10,900	9,400 B
	09/13/2019	200 HF	23 J B	0.020 J B	NA	530,000	6,100	8,800
	12/06/2019	160 HF	25 JB	0.015 J	NA	850,000	5,000	6,600
02/11/2020	100 U HF	140 H	0.014 J	NA	440,000	11,500	8,300	
06/09/2020	6,540 T8	NA	NA	55.8 J	2,220,000	<50.0	5,920	
08/19/2020	4,540 T8	NA	NA	<100	1,140,000	<0.05	6,560	
MW-29-D1	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	< 5000	230	NA
	10/26/2016	NA	NA	NA	NA	< 5000	1,200	NA
	10/26/2016	NA	NA	NA	NA	1,800 J	< 2,000	NA
	07/05/2017	< 100	< 50	< 0.050	NA	< 1,00,000	800 J	13,500 B
	08/27/2017	< 100	< 50	< 0.050	NA	< 1,00,000	101,000	12,900 B
	10/12/2017	< 100	< 50	< 0.050	NA	< 40,000	1,200	11,300 B
	07/13/2018	< 100	< 50	< 0.050	NA	< 40,000	1,200	NA
	10/18/2018	< 100	< 50	< 0.050	NA	13,600 J	800 J	NA
	05/10/2019	63 J HF	< 100	0.026 J	NA	13,000	1,100	14,200
	09/14/2019	110 HF	<100	0.016 J B	NA	6,900	830 J	10,000
	12/06/2019	< 100	53 J B	0.036 J	NA	16,000	< 1,000	29,500
	02/12/2020	230 HF		0.018 J B	NA	17,000	910 J	3,400
	06/10/2020	362 T8	NA	NA	<100	72,600	<50.0	16,400
08/19/2020	232 T8	NA	NA	107	60,500	0.031 J	18,700	
MW-29-D2	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	939,000	17,000	NA
MW-29-VD	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/21/2016	NA	NA	NA	NA	1,890,000	< 100	NA
MW-30-D1	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	NA	92,700	NA
MW-30-D2	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	NA	64,100 F1	NA
MW-30-VD	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	NA	< 100	NA
MW-31-D1R	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	NA	600	NA
MW-31-D2R	01/14/2016	NA	NA	NA	NA	NA	NA	NA
	06/22/2016	NA	NA	NA	NA	NA	2,800	NA

See Notes on Page 43.

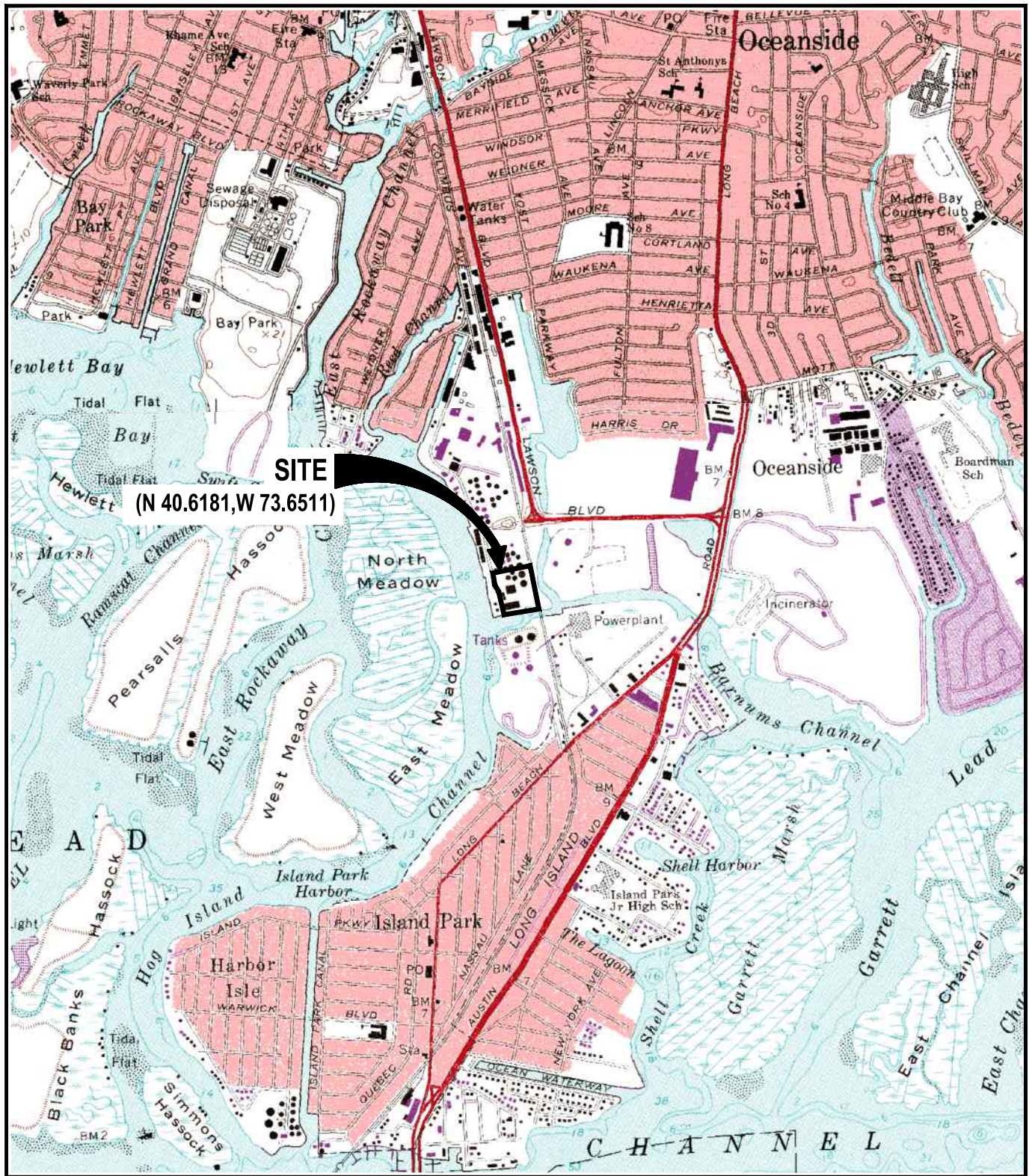
Table 3
Summary of Historic Groundwater VOC Analytical Results – 2016 through 2020
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

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
 [] = Duplicate analysis results
 D = Sample was diluted due to high concentration of target analytes.
 * = LCS or LCSD was above the control limits.
 ^ = Instrument related QC was outside acceptance limits.
 -- = Not available

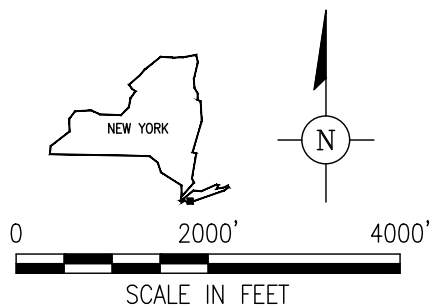
FIGURES



IMAGES:
NY_Lawrence.TIF
NY_Lynbrook.TIF

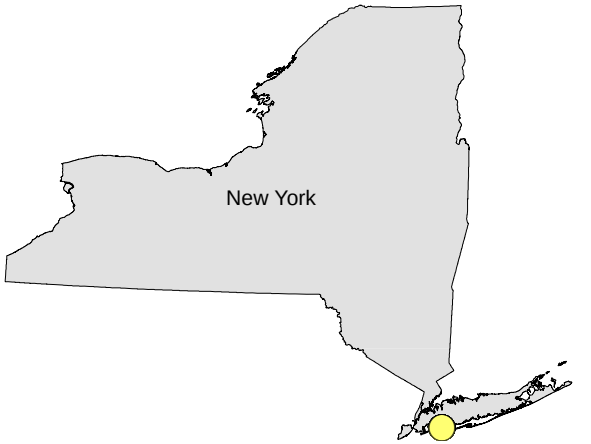
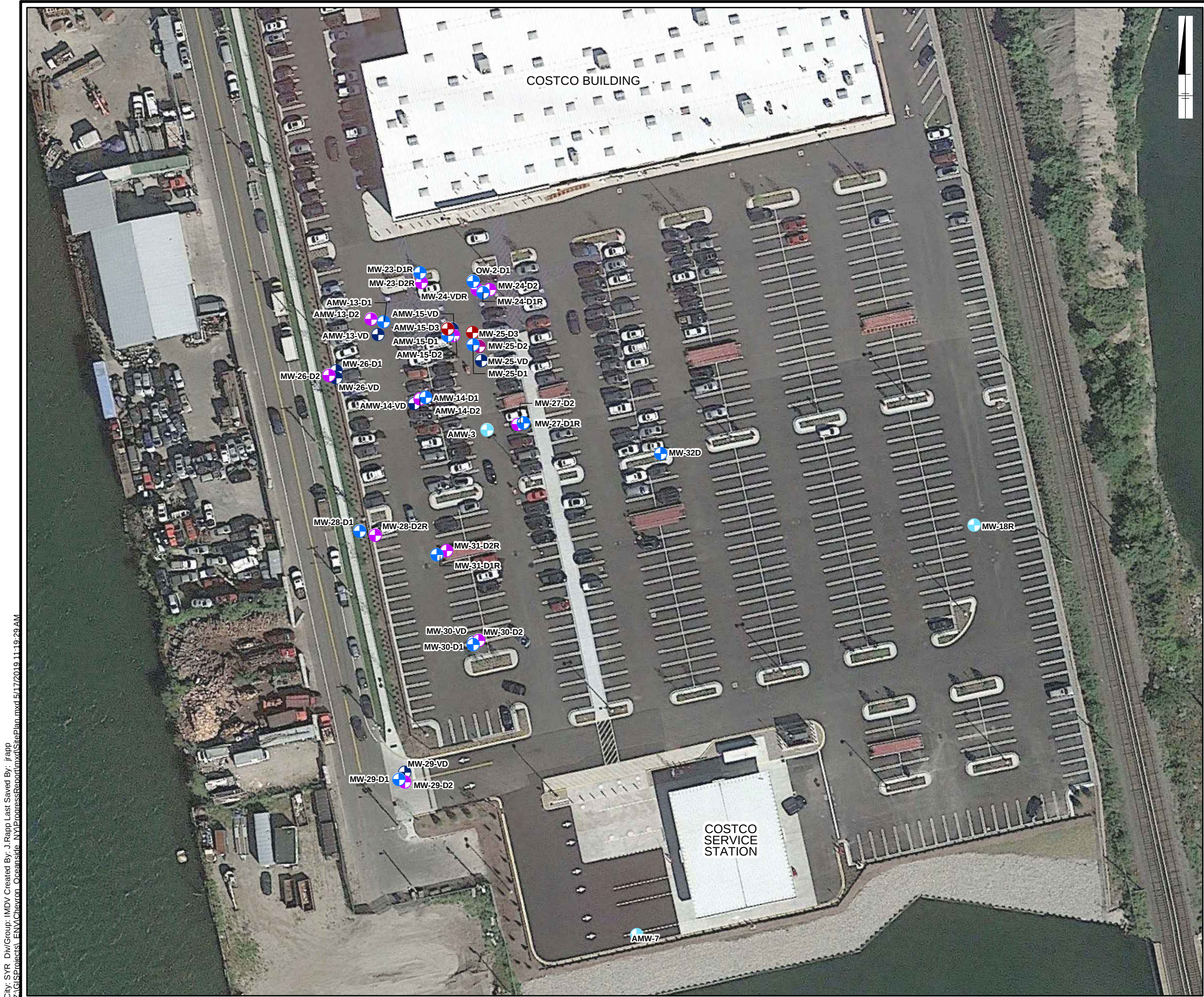


MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE 1979 LYNBROOK AND LAWRENCE, NEW YORK



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

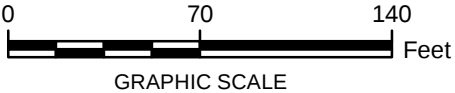
SITE LOCATION MAP



SITE LOCATION

LEGEND:

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

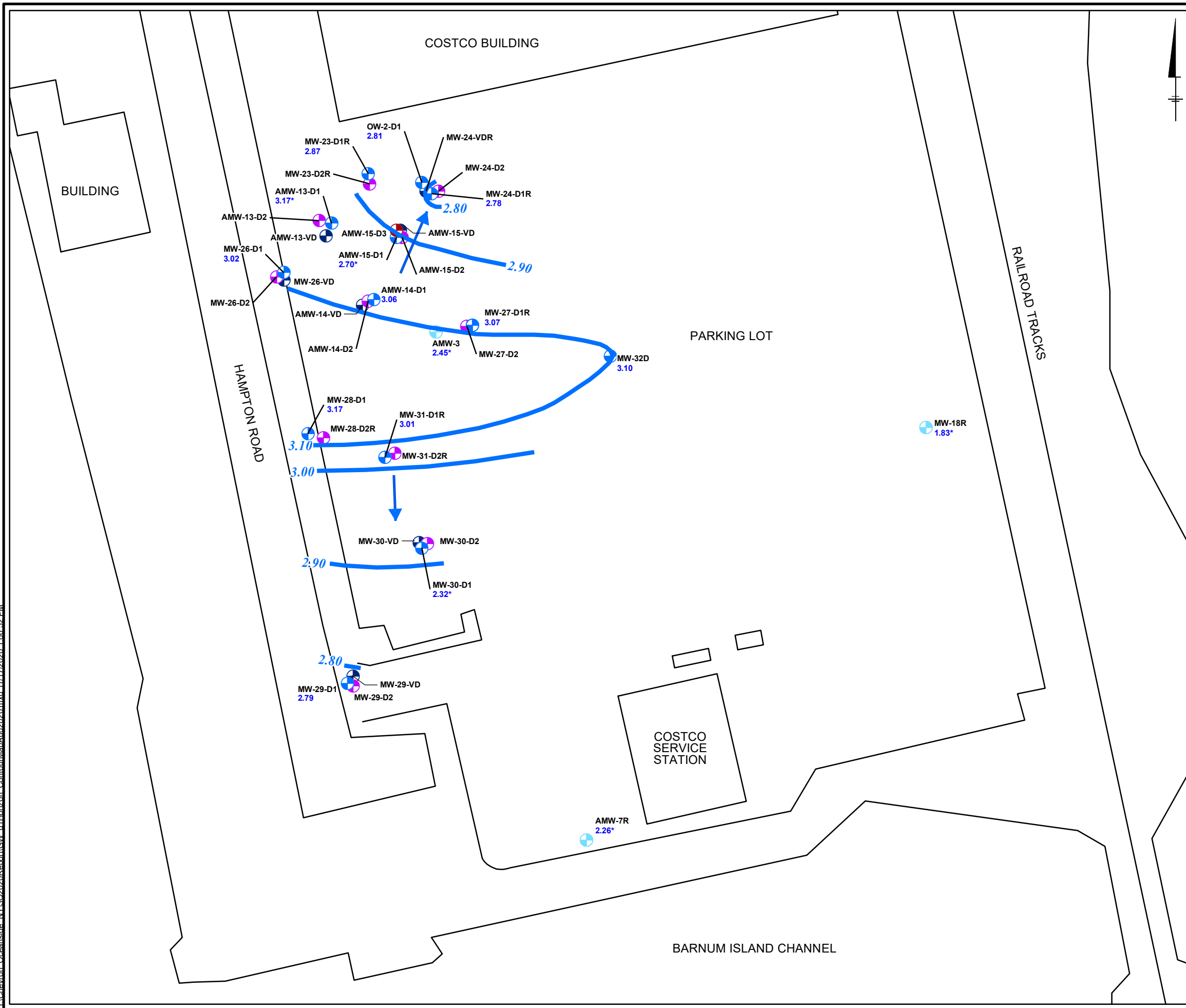


NOTE:
1. 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

SITE PLAN

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: J.Rapp
T:\Chevron_Oceanside_NY\302020Report\GW_41\Horizon_ContourMap\Aug2020.mxd 11/17/2020 1:06:52 PM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- 2.80
- 2.32* NOT USED TO GENERATE
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION

GRAPHIC SCALE

0 70 140 Feet

NOTE:

1. 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

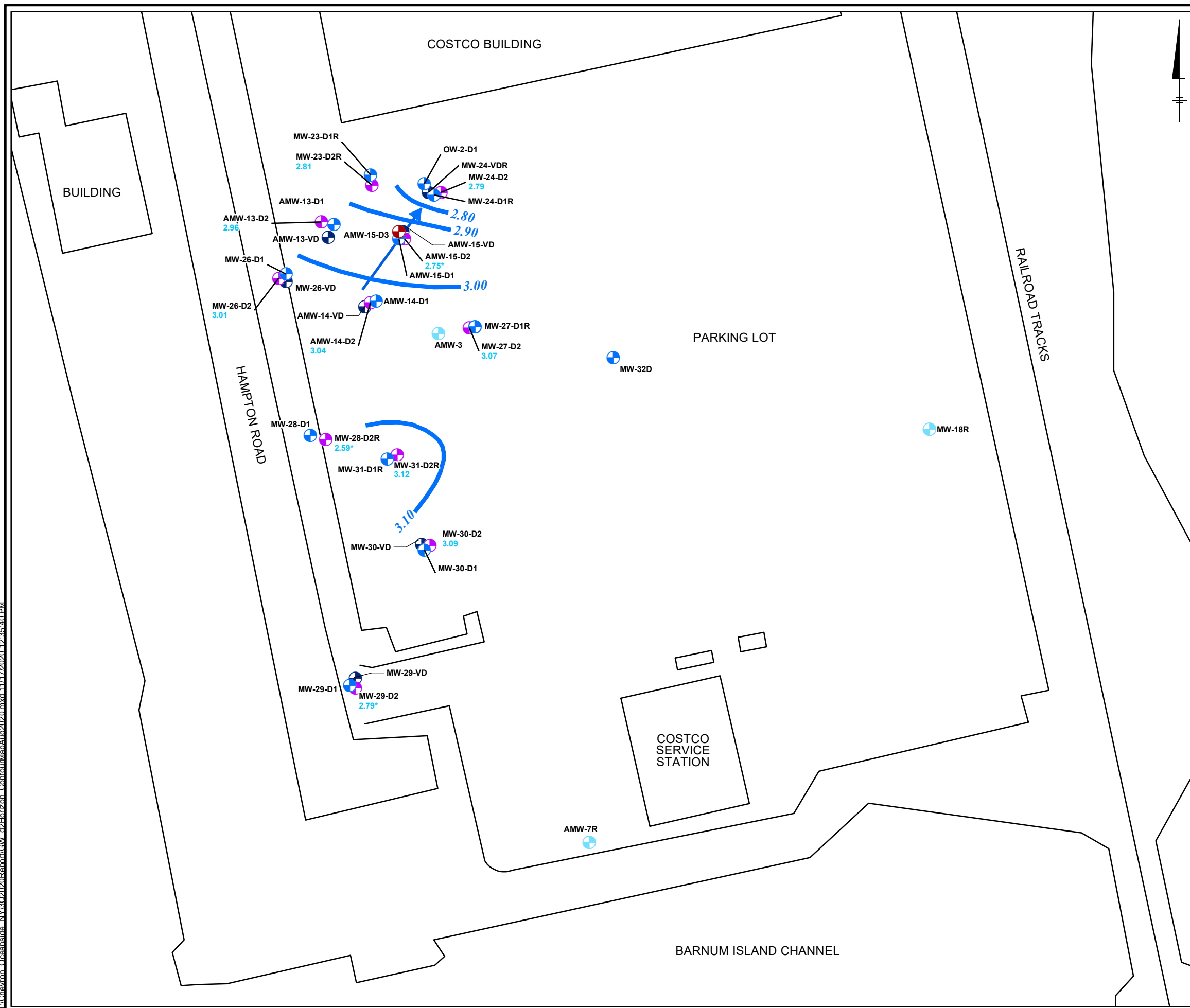
CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**D1 HORIZON GROUNDWATER
CONTOUR MAP
AUGUST 18, 2020**

ARCADIS Design & Consultancy
for natural and
built assets

**FIGURE
3**

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: j.rapp
T:\Chevron_Oceanside_NY\302020Report\GW_42\Horizon_ContourMap\Aug2020.mxd 11/17/2020 12:35:40 PM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- 2.81
- 2.59* NOT USED TO GENERATE
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION

0 70 140 Feet

GRAPHIC SCALE

NOTE:

1. 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

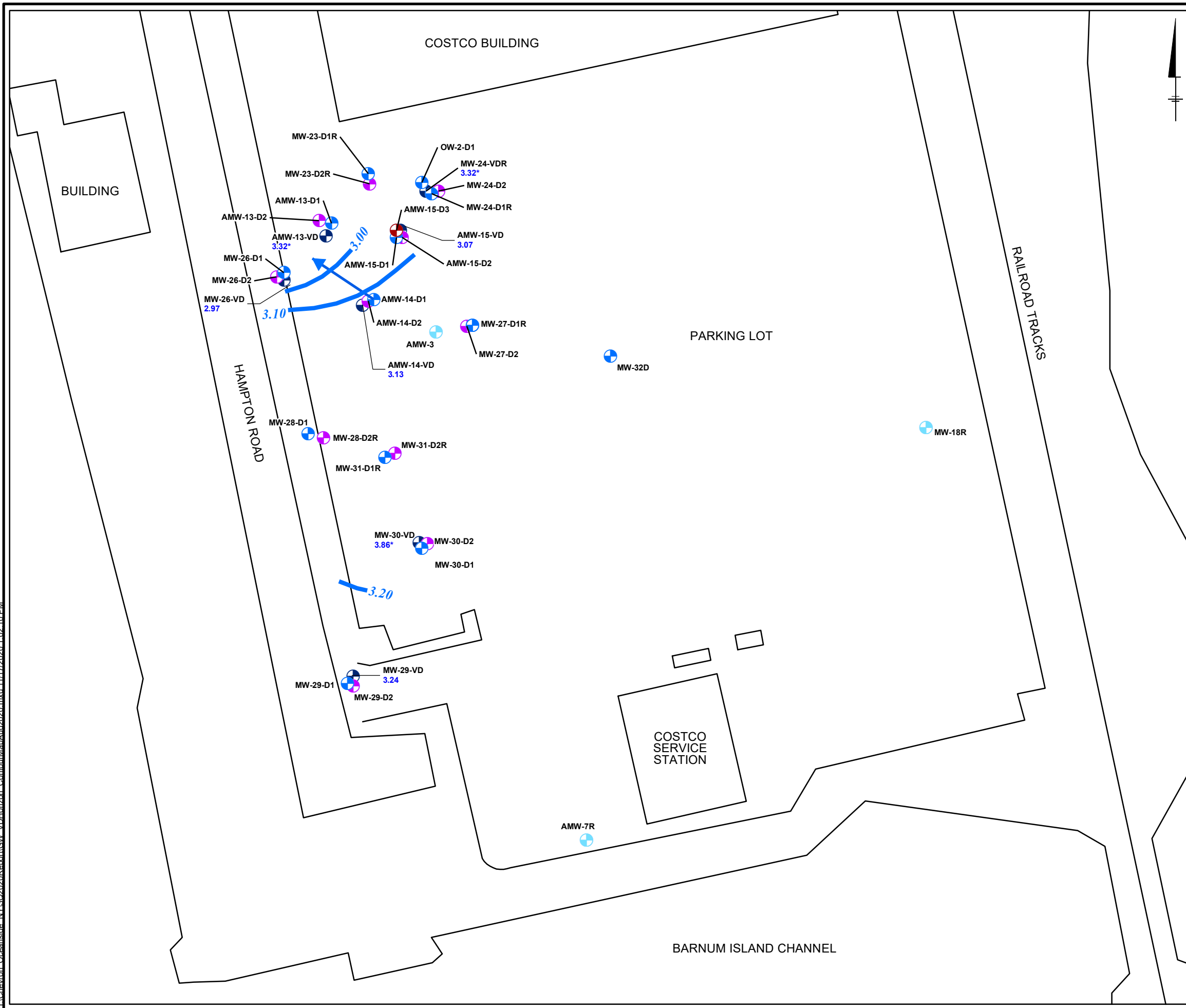
CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**D2 HORIZON GROUNDWATER
CONTOUR MAP
AUGUST 18, 2020**

ARCADIS Design & Consultancy
for natural and
built assets

**FIGURE
4**

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: J.Rapp
T:\Chevron_Oceanside_NY\302020Report\GW_VD\Horizon_Conf\Map\Aug2020.mxd 11/17/2020 1:02:10 PM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- 3.13
- 3.32* NOT USED TO GENERATE
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION

GRAPHIC SCALE

0 70 140 Feet

NOTE:

1. 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**VD HORIZON GROUNDWATER
CONTOUR MAP
AUGUST 18, 2020**

ARCADIS Design & Consultancy
for natural and
built assets

**FIGURE
5**

Sample ID	MW-23-D1R
Sample Date	8/19/2020
Benzene	0.312 J
Ethylbenzene	<1.00
Methyl-t-butyl ether	85.5
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

Sample ID	MW-26-D1
Sample Date	8/19/2020
Benzene	6.46
Ethylbenzene	1.38
Methyl-t-butyl ether	97.4
trans-1,2-Dichloroethene	1.57
Vinyl chloride (Chloroethene)	39.0 J0
Xylene (total)	1.02 J

Sample ID	MW-26-D2
Sample Date	8/19/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	64.4
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-14-D1
Sample Date	8/19/2020
Benzene	5.40
Ethylbenzene	6.29
Methyl-t-butyl ether	181
trans-1,2-Dichloroethene	10.8
Vinyl chloride (Chloroethene)	4.74 J0
Xylene (total)	4.86

Sample ID	AMW-14-D2
Sample Date	8/19/2020
Benzene	<10.0
Ethylbenzene	<10.0
Methyl-t-butyl ether	32.0
trans-1,2-Dichloroethene	<10.0
Vinyl chloride (Chloroethene)	<10.0
Xylene (total)	<30.0

Sample ID	AMW-14-VD
Sample Date	8/20/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	0.303 J
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-28-D1
Sample Date	8/19/2020
Benzene	5.03
Ethylbenzene	0.750 J
Methyl-t-butyl ether	16.5
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	1.02 J

Sample ID	MW-28-D2R
Sample Date	8/19/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-23-D2R
Sample Date	8/19/2020
Benzene	0.407 J
Ethylbenzene	<1.00
Methyl-t-butyl ether	42.2
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

Sample ID	MW-24-VDR
Sample Date	8/18/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	1.16
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

Sample ID	MW-24-D2
Sample Date	8/18/2020
Benzene	0.227 J
Ethylbenzene	<1.00
Methyl-t-butyl ether	76.4
trans-1,2-Dichloroethene	0.359 J
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

Sample ID	MW-24-D1R
Sample Date	8/19/2020
Benzene	10.2 [9.74]
Ethylbenzene	6.80 [6.57]
Methyl-t-butyl ether	220 [206]
trans-1,2-Dichloroethene	12.9 [13.2]
Vinyl chloride (Chloroethene)	<5.00 J0 [<5.00 J0]
Xylene (total)	26.9 [26.3]

Sample ID	AMW-15-VD
Sample Date	8/19/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	0.684 J
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

Sample ID	AMW-15-D3
Sample Date	8/19/2020
Benzene	0.664 J
Ethylbenzene	0.161 J
Methyl-t-butyl ether	72.8
trans-1,2-Dichloroethene	0.226 J
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	0.376 J

Sample ID	AMW-15-D2
Sample Date	8/19/2020
Benzene	0.102 J
Ethylbenzene	<1.00
Methyl-t-butyl ether	11.0
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00 J0
Xylene (total)	<3.00

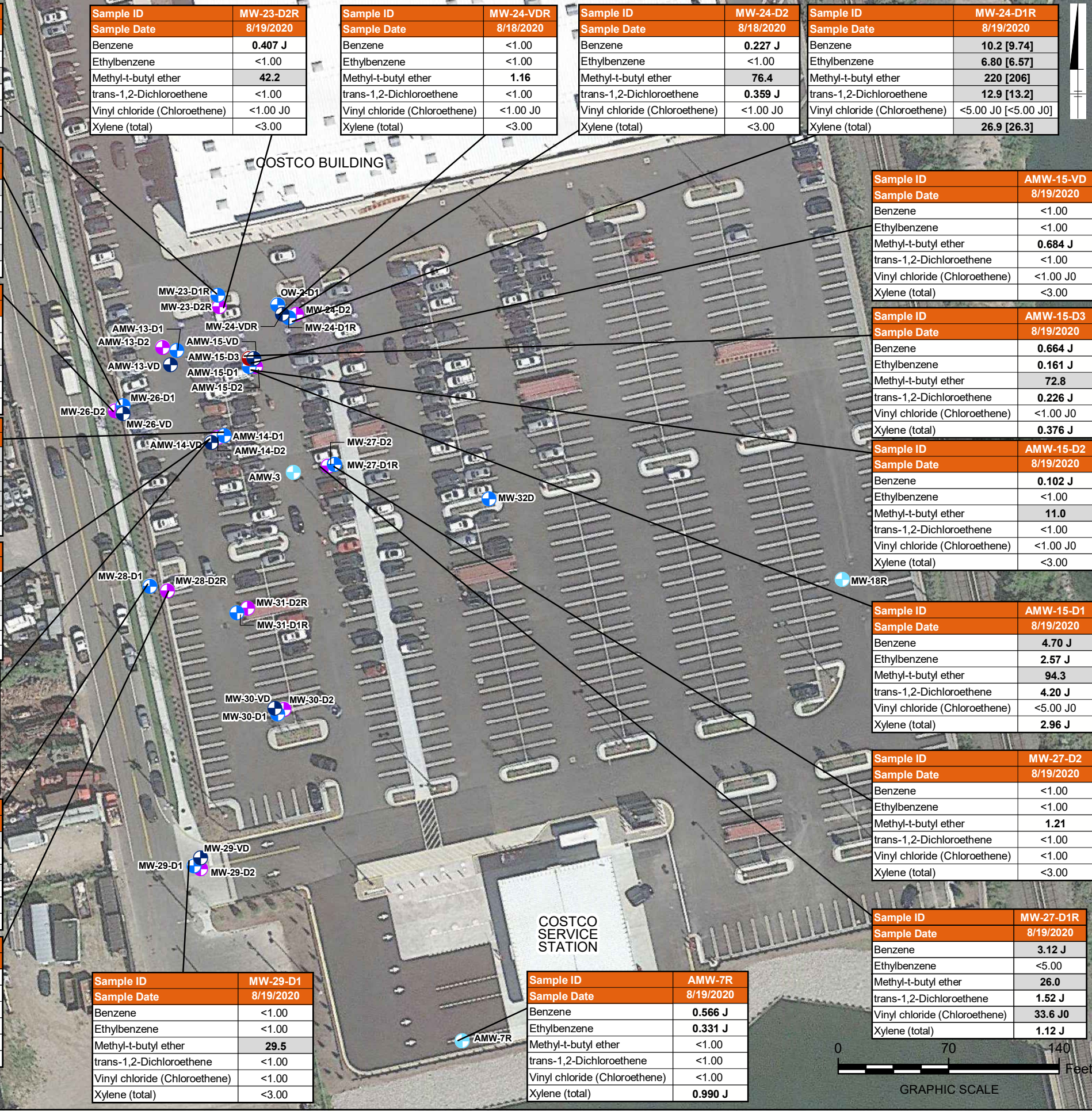
Sample ID	AMW-15-D1
Sample Date	8/19/2020
Benzene	4.70 J
Ethylbenzene	2.57 J
Methyl-t-butyl ether	94.3
trans-1,2-Dichloroethene	4.20 J
Vinyl chloride (Chloroethene)	<5.00 J0
Xylene (total)	2.96 J

Sample ID	MW-27-D2
Sample Date	8/19/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	1.21
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-27-D1R
Sample Date	8/19/2020
Benzene	3.12 J
Ethylbenzene	<5.00
Methyl-t-butyl ether	26.0
trans-1,2-Dichloroethene	1.52 J
Vinyl chloride (Chloroethene)	33.6 J0
Xylene (total)	1.12 J

Sample ID	AMW-7R
Sample Date	8/19/2020
Benzene	0.566 J
Ethylbenzene	0.331 J
Methyl-t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	0.990 J

Sample ID	MW-29-D1
Sample Date	8/19/2020
Benzene	<1.00
Ethylbenzene	<1.00
Methyl-t-butyl ether	29.5
trans-1,2-Dichloroethene	<1.00
Vinyl chloride (Chloroethene)	<1.00
Xylene (total)	<3.00



SITE LOCATION

LEGEND:

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

Parameter Name	NYSDEC 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

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
BOLDDED 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.
< = LESS THAN INDICATED REPORTING LIMIT
[] = DUPLICATE ANALYSIS RESULTS
J0 = THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE, BUT THE REPORTED CONCENTRATION IS AN ESTIMATE. THE CALIBRATION MET METHOD CRITERIA.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

GROUNDWATER ANALYTICAL RESULTS
AUGUST 19 AND 20, 2020

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	8:30 AM - 10 PM Date	Well Diameter (in)	Well Depth (ft btoc)	Top of Casing Elevation (ft)*	Depth to Water (ft btoc)	Depth to Bottom (ft btoc)
AMW-3	8-18-20	2	12 42	9 05	6.60	12.40
AMW-13-D1		2	34 01	9.87	6.70	32.92
AMW-13-D2		2	43 95	9.76	6.80	42.80
AMW-13-VD		2	71 82	9 77	6.45	70.50
OW-2-D1		2	33 95	9 94	7.13	33.70
MW-26-VD		2	68 25	9.99	7.02	67.60
MW-29-D2		2	39.82	5 38	2.59	39.68
MW-29-VD		2	67 22	5 27	2.03	59.70
MW-30-D1		2	30	8 74	6.42	29.84
MW-30-D2		2	46 63	8 72	5.63	40.20
MW-30-VD		4	83 40	8 70	4.84	82.40
MW-31-D1R		2	30 04	8 39	5.38	30.05
MW-31-D2R		2	45 15	8 35	5.23	45.90
MW-32D		2	37 45	8 85	5.75	36.56
MW-27-D2		2	46 97	9 09	6.02	46.89
MW-28-D2R		2	46 69	8 40	5.81	47.05
MW-24-D2		2	42 20	10.00	7.21	15.21
MW-24 VDR		2	73 98	9 72	6.4	72.36
AMW-15-VD		2	72 15	9 82	6.75	72.37
AMW-7R		2	14 42	9.95	7.67	13.89
AMW-14-VD		2	75 61	9 25	6.12	75.24
AMW-14-D2		2	43 17	9.37	6.33	43.27
MW-28-D1		2	30 38	8 25	5.08	27.57
MW-26-D2		2	43 76	9.40	6.39	45.15
MW-23-D2R		2	44 63	10 52	7.71	45.89
AMW-15-D2		2	36 2	9.71	6.96	41.45
AMW-15-D3		2	48 6	9.81	6.99	47.71
MW-23-D1R		2	25 78	9 84	6.97	25.40
AMW-15-D1		2	36 2	9 74	7.04	36.07
MW-27-D1R		2	32 99	9 01	5.94	32.81
MW-26-D1		2	28 8	9 95	6.93	19.22
MW-29-D1		2	23 45	5 21	2.42	23.26
MW-18R		2	10 17	7 98	6.15	
AMW-14-D1		2	33 15	9.38	6.32	32.77
MW-24-D1R		2	32 23	9 82	7.04	31.81

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: Felix - Desmarais

Date: 8-18-20 / 8-19-20
Weather: overcast

Well ID	Time	pH	Temp (deg C)	Cond (Ms/cm3)	DO (mg/L)	ORP (mV)	Notes
MW-24-D2	2300	7.58	18.6	4.087	0.01	-331	odor
MW-24 VDR	2330	7.49	19.8	0.097	2.25	-197	odor
MW-24 D1A	0005	7.04	18.6	7.651	10.05	-359.1	odor
MW-23 D2A	0045	—	—	—	—	—	YSF could not fit in well casing
MW-15 D1R	0100	7.96	20.5	4.085	0.59	-226.9	odor
MW-15 D3	0120	12.00	18.6	2.922	0.00	-439.4	odor
MW-15 D1	0140	7.75	16.0	5.707	0.25	-272.6	odor
MW-15 D2	0200	9.19	16.8	0.866	3.12	-127.6	odor
MW-15 D1	0220	8.43	17.2	0.343	4.18	-82.9	odor
MW-26 D1	1915	7.15	15.6	7.597	0.03	-375.4	odor
MW-26 D2	1930	7.20	15.8	11.67	0.01	-344.4	odor
MW-26 D1	2010	7.49	15.3	9.152	0.30	-312.5	odor
MW-27 D2R	2030	8.36	21.5	0.871	2.28	-214.9	odor
MW-27 D2	2050	7.20	21.4	0.770	0.39	-102.2	odor
MW-27 D1R	2110	7.62	20.1	10.747	0.44	-274.6	odor
AMW-4 D1	2130	7.82	18.7	7.896	0.35	-189.4	odor
AMW-4 D2	2150	7.66	19.6	3.211	0.43	-131.5	odor
AMW-4 D1	2210	7.27	21.8	4.716	10.05	-365.5	odor
AMW-7R	2305	7.49	21.2	1.485	0.27	-269.6	odor
MW-29 D1	2320	7.45	25.7	1.262	0.80	-191.7	odor

FB @ 0005 TS

ATTACHMENT 2

Laboratory Analytical Report



Arcadis - Chevron - NY

Sample Delivery Group: L1252557
Samples Received: 08/20/2020
Project Number: 30044997.3722
Description: Oceanside 6518040
Site: 6518040
Report To: Loretta Kwong
27-01 Queens Plaza North
Suite 800
New York City, NY 11101

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.



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AMW-15-D3-W-20200819 L1252557-07	26
AMW-15-D1-W-202008199 L1252557-08	29
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-24-D2-W-20200818 L1252557-01 GW

Collected by
Felix/Desmond

Collected date/time
08/18/20 23:00

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:16	08/26/20 09:16	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 22:27	08/24/20 22:27	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:32	08/25/20 11:32	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	5	08/27/20 21:02	08/27/20 21:02	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 22:27	08/24/20 22:27	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 11:58	08/24/20 11:58	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/25/20 10:56	08/25/20 10:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 17:22	08/20/20 17:22	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:16	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:02	08/27/20 16:02	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 22:57	08/21/20 22:57	JCP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

BD-W-20200819 L1252557-02 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 00:00

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:19	08/26/20 09:19	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 22:35	08/24/20 22:35	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:33	08/25/20 11:33	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	20	08/27/20 21:04	08/27/20 21:04	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 22:35	08/24/20 22:35	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 11:59	08/24/20 11:59	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 16:34	08/24/20 16:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 16:47	08/24/20 16:47	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	5	08/20/20 17:50	08/20/20 17:50	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:19	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	5	08/24/20 22:36	08/26/20 22:38	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:07	08/27/20 16:07	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	5	08/22/20 01:20	08/22/20 01:20	JCP	Mt. Juliet, TN

MW-24-VDR-W-20200818 L1252557-03 GW

Collected by
Felix/Desmond

Collected date/time
08/18/20 23:30

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:22	08/26/20 09:22	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:01	08/24/20 23:01	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	50	08/25/20 11:33	08/25/20 11:33	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	1	08/27/20 21:05	08/27/20 21:05	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:01	08/24/20 23:01	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 11:59	08/24/20 11:59	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 17:00	08/24/20 17:00	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	500	08/24/20 17:13	08/24/20 17:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 18:07	08/20/20 18:07	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:22	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	20	08/24/20 22:36	08/26/20 22:41	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:10	08/27/20 16:10	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 23:18	08/21/20 23:18	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



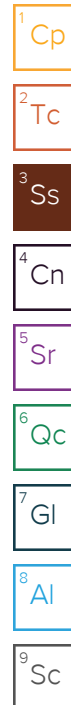
MW-24-DIR-W-20200819 L1252557-04 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 00:05

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:30	08/26/20 09:30	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:09	08/24/20 23:09	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:34	08/25/20 11:34	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	100	08/27/20 21:07	08/27/20 21:07	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:09	08/24/20 23:09	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 12:00	08/24/20 12:00	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 17:26	08/24/20 17:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 17:39	08/24/20 17:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	5	08/20/20 18:21	08/20/20 18:21	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:30	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	5	08/24/20 22:36	08/26/20 22:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:12	08/27/20 16:12	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	5	08/22/20 01:40	08/22/20 01:40	JCP	Mt. Juliet, TN



MW-23-D2R-W-20200819 L1252557-05 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 00:45

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:33	08/26/20 09:33	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:17	08/24/20 23:17	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:34	08/25/20 11:34	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	5	08/27/20 21:09	08/27/20 21:09	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:17	08/24/20 23:17	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 12:01	08/24/20 12:01	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 17:52	08/24/20 17:52	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 18:05	08/24/20 18:05	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 18:38	08/20/20 18:38	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:33	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	10	08/24/20 22:36	08/26/20 22:53	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:15	08/27/20 16:15	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 23:38	08/21/20 23:38	JCP	Mt. Juliet, TN

MW-23-DIR-W-20200819 L1252557-06 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 01:00

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:36	08/26/20 09:36	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:24	08/24/20 23:24	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	5	08/25/20 11:35	08/25/20 11:35	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	20	08/27/20 21:10	08/27/20 21:10	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:24	08/24/20 23:24	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 12:01	08/24/20 12:01	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 18:18	08/24/20 18:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 18:31	08/24/20 18:31	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 18:58	08/20/20 18:58	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:36	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	5	08/24/20 22:36	08/26/20 22:55	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:17	08/27/20 16:17	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 23:58	08/21/20 23:58	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



AMW-15-D3-W-20200819 L1252557-07 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 01:20

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:39	08/26/20 09:39	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:31	08/24/20 23:31	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:37	08/25/20 11:37	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	5	08/27/20 21:15	08/27/20 21:15	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:31	08/24/20 23:31	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	100	08/24/20 16:53	08/24/20 16:53	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 15:54	08/24/20 15:54	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 19:12	08/20/20 19:12	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:39	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	10	08/24/20 22:36	08/26/20 22:58	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:20	08/27/20 16:20	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/22/20 00:19	08/22/20 00:19	JCP	Mt. Juliet, TN

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

AMW-15-D1-W-202008199 L1252557-08 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 01:40

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:42	08/26/20 09:42	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:39	08/24/20 23:39	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:38	08/25/20 11:38	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	100	08/27/20 21:16	08/27/20 21:16	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:39	08/24/20 23:39	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	100	08/24/20 16:54	08/24/20 16:54	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 19:10	08/24/20 19:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 19:23	08/24/20 19:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	5	08/20/20 20:25	08/20/20 20:25	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:42	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	5	08/24/20 22:36	08/26/20 23:01	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:25	08/27/20 16:25	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	5	08/22/20 02:00	08/22/20 02:00	JCP	Mt. Juliet, TN

AMW-15-D2-W-20200819 L1252557-09 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 02:00

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:45	08/26/20 09:45	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:47	08/24/20 23:47	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	5	08/25/20 11:39	08/25/20 11:39	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	20	08/27/20 21:18	08/27/20 21:18	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:47	08/24/20 23:47	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 16:54	08/24/20 16:54	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	10	08/24/20 19:36	08/24/20 19:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 19:50	08/24/20 19:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	2	08/20/20 20:40	08/20/20 20:40	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:45	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	5	08/24/20 22:36	08/26/20 23:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:34	08/27/20 16:34	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/22/20 00:39	08/22/20 00:39	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



AMW-15-VD-W-20200819 L1252557-10 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 02:20

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:48	08/26/20 09:48	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/24/20 23:54	08/24/20 23:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	50	08/25/20 11:39	08/25/20 11:39	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	5	08/27/20 21:19	08/27/20 21:19	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/24/20 23:54	08/24/20 23:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 16:54	08/24/20 16:54	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	100	08/24/20 20:03	08/24/20 20:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	500	08/24/20 20:16	08/24/20 20:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	1	08/20/20 20:57	08/20/20 20:57	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:48	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	20	08/24/20 22:36	08/26/20 23:07	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:36	08/27/20 16:36	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/22/20 00:59	08/22/20 00:59	JCP	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

FB-W-20200819 L1252557-11 GW

Collected by
Felix/Desmond

Collected date/time
08/19/20 02:30

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531050	1	08/26/20 09:51	08/26/20 09:51	TRB	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531098	1	08/25/20 00:09	08/25/20 00:09	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530449	1	08/25/20 11:40	08/25/20 11:40	KEG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1532331	1	08/27/20 21:20	08/27/20 21:20	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531098	1	08/25/20 00:09	08/25/20 00:09	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 16:55	08/24/20 16:55	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531218	1	08/24/20 20:29	08/24/20 20:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1529216	1	08/20/20 21:13	08/20/20 21:13	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531050	1	08/24/20 22:36	08/26/20 09:51	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1529850	1	08/27/20 16:39	08/27/20 16:39	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 20:15	08/21/20 20:15	JCP	Mt. Juliet, TN

TRIP BLANK-20200818 L1252557-12 GW

Collected by
Felix/Desmond

Collected date/time
08/18/20 00:00

Received date/time
08/20/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1530240	1	08/21/20 20:35	08/21/20 20:35	JCP	Mt. Juliet, TN



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

Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 08/31/20 18:33

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	T8	15.0	50.0	1	08/26/2020 09:16	WG1531050

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	235000		8450	20000	1	08/24/2020 22:27	WG1531098

Sample Narrative:

L1252557-01 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1160	T8	15.0	50.0	1	08/25/2020 11:32	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/27/2020 21:02	WG1532331

Sample Narrative:

L1252557-01 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	08/24/2020 22:27	WG1531098

Sample Narrative:

L1252557-01 WG1531098: 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	08/24/2020 11:58	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	728000		3790	10000	10	08/25/2020 10:56	WG1531218
Sulfate	98300		5940	50000	10	08/25/2020 10:56	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15800		204	2000	2	08/20/2020 17:22	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	436		45.8	100	1	08/26/2020 09:16	WG1531050
Manganese	32.8		3.27	10.0	1	08/26/2020 09:16	WG1531050



Collected date/time: 08/18/20 23:00

L1252557

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	518000		1400	3000	1	08/26/2020 09:16	WG1531050

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1200		2.91	10.0	1	08/27/2020 16:02	WG1529850
Ethane	13.7		4.07	13.0	1	08/27/2020 16:02	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:02	WG1529850

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
Acetone	U	JO	11.3	50.0	1	08/21/2020 22:57	WG1530240
Benzene	0.227	U	0.0941	1.00	1	08/21/2020 22:57	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 22:57	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 22:57	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 22:57	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/21/2020 22:57	WG1530240
Carbon disulfide	0.266	U	0.0962	1.00	1	08/21/2020 22:57	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 22:57	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 22:57	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 22:57	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/21/2020 22:57	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 22:57	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 22:57	WG1530240
Cyclohexane	U		0.188	1.00	1	08/21/2020 22:57	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/21/2020 22:57	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 22:57	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/21/2020 22:57	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 22:57	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 22:57	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 22:57	WG1530240
1,1-Dichloroethane	0.210	U	0.100	1.00	1	08/21/2020 22:57	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 22:57	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 22:57	WG1530240
cis-1,2-Dichloroethene	0.364	U	0.126	1.00	1	08/21/2020 22:57	WG1530240
trans-1,2-Dichloroethene	0.359	U	0.149	1.00	1	08/21/2020 22:57	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 22:57	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 22:57	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 22:57	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 22:57	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/21/2020 22:57	WG1530240
Isopropylbenzene	0.141	U	0.105	1.00	1	08/21/2020 22:57	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 22:57	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 22:57	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 22:57	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 22:57	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 22:57	WG1530240
Methyl tert-butyl ether	76.4		0.101	1.00	1	08/21/2020 22:57	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 22:57	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 22:57	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 22:57	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 22:57	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/21/2020 22:57	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/21/2020 22:57	WG1530240



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	08/21/2020 22:57	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 22:57	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 22:57	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 22:57	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 22:57	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/21/2020 22:57	WG1530240
Xylenes, Total	U		0.174	3.00	1	08/21/2020 22:57	WG1530240
(S) Toluene-d8	104			80.0-120		08/21/2020 22:57	WG1530240
(S) 4-Bromofluorobenzene	107			77.0-126		08/21/2020 22:57	WG1530240
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		08/21/2020 22:57	WG1530240

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	576	<u>T8</u>	15.0	50.0	1	08/26/2020 09:19	WG1531050

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	485000		8450	20000	1	08/24/2020 22:35	WG1531098

Sample Narrative:

L1252557-02 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	243	<u>T8</u>	15.0	50.0	1	08/25/2020 11:33	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/27/2020 21:04	WG1532331

Sample Narrative:

L1252557-02 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	46300	<u>T8</u>	20000	1	08/24/2020 22:35	WG1531098

Sample Narrative:

L1252557-02 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	1530		25.0	50.0	1	08/24/2020 11:59	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2390000		37900	100000	100	08/24/2020 16:47	WG1531218
Sulfate	161000		5940	50000	10	08/24/2020 16:34	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	29600		510	5000	5	08/20/2020 17:50	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	819		45.8	100	1	08/26/2020 09:19	WG1531050
Manganese	14.6		3.27	10.0	1	08/26/2020 09:19	WG1531050



Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1470000		7000	15000	5	08/26/2020 22:38	WG1531050

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6280		2.91	10.0	1	08/27/2020 16:07	WG1529850
Ethane	566		4.07	13.0	1	08/27/2020 16:07	WG1529850
Ethene	111		4.26	13.0	1	08/27/2020 16:07	WG1529850

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	JO	56.5	250	5	08/22/2020 01:20	WG1530240
Benzene	9.74		0.471	5.00	5	08/22/2020 01:20	WG1530240
Bromochloromethane	U		0.640	5.00	5	08/22/2020 01:20	WG1530240
Bromodichloromethane	U		0.680	5.00	5	08/22/2020 01:20	WG1530240
Bromoform	U		0.645	5.00	5	08/22/2020 01:20	WG1530240
Bromomethane	U	JO	3.03	25.0	5	08/22/2020 01:20	WG1530240
Carbon disulfide	3.68	J	0.481	5.00	5	08/22/2020 01:20	WG1530240
Carbon tetrachloride	U		0.640	5.00	5	08/22/2020 01:20	WG1530240
Chlorobenzene	U		0.580	5.00	5	08/22/2020 01:20	WG1530240
Chlorodibromomethane	U		0.700	5.00	5	08/22/2020 01:20	WG1530240
Chloroethane	U	JO	0.960	25.0	5	08/22/2020 01:20	WG1530240
Chloroform	U		0.555	25.0	5	08/22/2020 01:20	WG1530240
Chloromethane	U		4.80	12.5	5	08/22/2020 01:20	WG1530240
Cyclohexane	U		0.940	5.00	5	08/22/2020 01:20	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	1.38	25.0	5	08/22/2020 01:20	WG1530240
1,2-Dibromoethane	U		0.630	5.00	5	08/22/2020 01:20	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.535	5.00	5	08/22/2020 01:20	WG1530240
1,3-Dichlorobenzene	U		0.550	5.00	5	08/22/2020 01:20	WG1530240
1,4-Dichlorobenzene	U		0.600	5.00	5	08/22/2020 01:20	WG1530240
Dichlorodifluoromethane	U		1.87	25.0	5	08/22/2020 01:20	WG1530240
1,1-Dichloroethane	U		0.500	5.00	5	08/22/2020 01:20	WG1530240
1,2-Dichloroethane	U		0.409	5.00	5	08/22/2020 01:20	WG1530240
1,1-Dichloroethene	U		0.940	5.00	5	08/22/2020 01:20	WG1530240
cis-1,2-Dichloroethene	U		0.630	5.00	5	08/22/2020 01:20	WG1530240
trans-1,2-Dichloroethene	13.2		0.745	5.00	5	08/22/2020 01:20	WG1530240
1,2-Dichloropropane	U		0.745	5.00	5	08/22/2020 01:20	WG1530240
cis-1,3-Dichloropropene	U		0.555	5.00	5	08/22/2020 01:20	WG1530240
trans-1,3-Dichloropropene	U		0.590	5.00	5	08/22/2020 01:20	WG1530240
Ethylbenzene	6.57		0.685	5.00	5	08/22/2020 01:20	WG1530240
2-Hexanone	U	JO	3.94	50.0	5	08/22/2020 01:20	WG1530240
Isopropylbenzene	0.681	J	0.525	5.00	5	08/22/2020 01:20	WG1530240
2-Butanone (MEK)	U		5.95	50.0	5	08/22/2020 01:20	WG1530240
Methyl Acetate	U		6.45	100	5	08/22/2020 01:20	WG1530240
Methyl Cyclohexane	U		3.30	5.00	5	08/22/2020 01:20	WG1530240
Methylene Chloride	U		2.15	25.0	5	08/22/2020 01:20	WG1530240
4-Methyl-2-pentanone (MIBK)	U		2.39	50.0	5	08/22/2020 01:20	WG1530240
Methyl tert-butyl ether	206		0.505	5.00	5	08/22/2020 01:20	WG1530240
Styrene	U		0.590	5.00	5	08/22/2020 01:20	WG1530240
1,1,2,2-Tetrachloroethane	U		0.665	5.00	5	08/22/2020 01:20	WG1530240
Tetrachloroethene	U		1.50	5.00	5	08/22/2020 01:20	WG1530240
Toluene	U		1.39	5.00	5	08/22/2020 01:20	WG1530240
1,2,3-Trichlorobenzene	U	JO	1.15	5.00	5	08/22/2020 01:20	WG1530240
1,2,4-Trichlorobenzene	U	JO	2.41	5.00	5	08/22/2020 01:20	WG1530240

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		0.745	5.00	5	08/22/2020 01:20	WG1530240
1,1,2-Trichloroethane	U		0.790	5.00	5	08/22/2020 01:20	WG1530240
Trichloroethene	U		0.950	5.00	5	08/22/2020 01:20	WG1530240
Trichlorofluoromethane	U		0.800	25.0	5	08/22/2020 01:20	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.900	5.00	5	08/22/2020 01:20	WG1530240
Vinyl chloride	U	<u>JO</u>	1.17	5.00	5	08/22/2020 01:20	WG1530240
Xylenes, Total	26.3		0.870	15.0	5	08/22/2020 01:20	WG1530240
(S) Toluene-d8	104			80.0-120		08/22/2020 01:20	WG1530240
(S) 4-Bromofluorobenzene	108			77.0-126		08/22/2020 01:20	WG1530240
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		08/22/2020 01:20	WG1530240

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	12800	T8	45.8	100	1	08/26/2020 09:22	WG1531050

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	332000		8450	20000	1	08/24/2020 23:01	WG1531098

Sample Narrative:

L1252557-03 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	32100	T8	750	2500	50	08/25/2020 11:33	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	08/27/2020 21:05	WG1532331

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	75500	T8	20000	1	08/24/2020 23:01	WG1531098

Sample Narrative:

L1252557-03 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	08/24/2020 11:59	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	12800000		190000	500000	500	08/24/2020 17:13	WG1531218
Sulfate	1510000		59400	500000	100	08/24/2020 17:00	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8400		204	2000	2	08/20/2020 18:07	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	44900		45.8	100	1	08/26/2020 09:22	WG1531050
Manganese	578		3.27	10.0	1	08/26/2020 09:22	WG1531050
Sodium	8910000		28000	60000	20	08/26/2020 22:41	WG1531050



Collected date/time: 08/18/20 23:30

L1252557

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	55.8		2.91	10.0	1	08/27/2020 16:10	WG1529850
Ethane	U		4.07	13.0	1	08/27/2020 16:10	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:10	WG1529850

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	JO	11.3	50.0	1	08/21/2020 23:18	WG1530240
Benzene	U		0.0941	1.00	1	08/21/2020 23:18	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 23:18	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 23:18	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 23:18	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/21/2020 23:18	WG1530240
Carbon disulfide	0.394	J	0.0962	1.00	1	08/21/2020 23:18	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 23:18	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 23:18	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 23:18	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/21/2020 23:18	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 23:18	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 23:18	WG1530240
Cyclohexane	U		0.188	1.00	1	08/21/2020 23:18	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/21/2020 23:18	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 23:18	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/21/2020 23:18	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 23:18	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 23:18	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 23:18	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/21/2020 23:18	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 23:18	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 23:18	WG1530240
cis-1,2-Dichloroethene	0.140	J	0.126	1.00	1	08/21/2020 23:18	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/21/2020 23:18	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 23:18	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 23:18	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 23:18	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 23:18	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/21/2020 23:18	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/21/2020 23:18	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 23:18	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 23:18	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 23:18	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 23:18	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 23:18	WG1530240
Methyl tert-butyl ether	1.16		0.101	1.00	1	08/21/2020 23:18	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 23:18	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 23:18	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 23:18	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 23:18	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/21/2020 23:18	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/21/2020 23:18	WG1530240
1,1,1-Trichloroethane	U		0.149	1.00	1	08/21/2020 23:18	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 23:18	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 23:18	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 23:18	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 23:18	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/21/2020 23:18	WG1530240

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/18/20 23:30

L1252557

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	08/21/2020 23:18	WG1530240
(S) Toluene-d8	105			80.0-120		08/21/2020 23:18	WG1530240
(S) 4-Bromofluorobenzene	106			77.0-126		08/21/2020 23:18	WG1530240
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		08/21/2020 23:18	WG1530240

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	454	<u>T8</u>	15.0	50.0	1	08/26/2020 09:30	WG1531050

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	423000		8450	20000	1	08/24/2020 23:09	WG1531098

Sample Narrative:

L1252557-04 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	220	<u>T8</u>	15.0	50.0	1	08/25/2020 11:34	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		5000	10000	100	08/27/2020 21:07	WG1532331

Sample Narrative:

L1252557-04 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	47000	<u>T8</u>	20000	1	08/24/2020 23:09	WG1531098

Sample Narrative:

L1252557-04 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	580		25.0	50.0	1	08/24/2020 12:00	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2360000		37900	100000	100	08/24/2020 17:39	WG1531218
Sulfate	204000		5940	50000	10	08/24/2020 17:26	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	36000		510	5000	5	08/20/2020 18:21	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	674		45.8	100	1	08/26/2020 09:30	WG1531050
Manganese	9.41	<u>J</u>	3.27	10.0	1	08/26/2020 09:30	WG1531050



Collected date/time: 08/19/20 00:05

L1252557

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1440000		7000	15000	5	08/26/2020 22:44	WG1531050

1
Cp2
Tc3
Ss4
Cn5
Sr

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6530		2.91	10.0	1	08/27/2020 16:12	WG1529850
Ethane	589		4.07	13.0	1	08/27/2020 16:12	WG1529850
Ethene	116		4.26	13.0	1	08/27/2020 16:12	WG1529850

6
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	JO	56.5	250	5	08/22/2020 01:40	WG1530240
Benzene	10.2		0.471	5.00	5	08/22/2020 01:40	WG1530240
Bromochloromethane	U		0.640	5.00	5	08/22/2020 01:40	WG1530240
Bromodichloromethane	U		0.680	5.00	5	08/22/2020 01:40	WG1530240
Bromoform	U		0.645	5.00	5	08/22/2020 01:40	WG1530240
Bromomethane	U	JO	3.03	25.0	5	08/22/2020 01:40	WG1530240
Carbon disulfide	8.28		0.481	5.00	5	08/22/2020 01:40	WG1530240
Carbon tetrachloride	U		0.640	5.00	5	08/22/2020 01:40	WG1530240
Chlorobenzene	U		0.580	5.00	5	08/22/2020 01:40	WG1530240
Chlorodibromomethane	U		0.700	5.00	5	08/22/2020 01:40	WG1530240
Chloroethane	U	JO	0.960	25.0	5	08/22/2020 01:40	WG1530240
Chloroform	U		0.555	25.0	5	08/22/2020 01:40	WG1530240
Chloromethane	U		4.80	12.5	5	08/22/2020 01:40	WG1530240
Cyclohexane	U		0.940	5.00	5	08/22/2020 01:40	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	1.38	25.0	5	08/22/2020 01:40	WG1530240
1,2-Dibromoethane	U		0.630	5.00	5	08/22/2020 01:40	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.535	5.00	5	08/22/2020 01:40	WG1530240
1,3-Dichlorobenzene	U		0.550	5.00	5	08/22/2020 01:40	WG1530240
1,4-Dichlorobenzene	U		0.600	5.00	5	08/22/2020 01:40	WG1530240
Dichlorodifluoromethane	U		1.87	25.0	5	08/22/2020 01:40	WG1530240
1,1-Dichloroethane	U		0.500	5.00	5	08/22/2020 01:40	WG1530240
1,2-Dichloroethane	U		0.409	5.00	5	08/22/2020 01:40	WG1530240
1,1-Dichloroethene	U		0.940	5.00	5	08/22/2020 01:40	WG1530240
cis-1,2-Dichloroethene	U		0.630	5.00	5	08/22/2020 01:40	WG1530240
trans-1,2-Dichloroethene	12.9		0.745	5.00	5	08/22/2020 01:40	WG1530240
1,2-Dichloropropane	U		0.745	5.00	5	08/22/2020 01:40	WG1530240
cis-1,3-Dichloropropene	U		0.555	5.00	5	08/22/2020 01:40	WG1530240
trans-1,3-Dichloropropene	U		0.590	5.00	5	08/22/2020 01:40	WG1530240
Ethylbenzene	6.80		0.685	5.00	5	08/22/2020 01:40	WG1530240
2-Hexanone	U	JO	3.94	50.0	5	08/22/2020 01:40	WG1530240
Isopropylbenzene	0.712	J	0.525	5.00	5	08/22/2020 01:40	WG1530240
2-Butanone (MEK)	U		5.95	50.0	5	08/22/2020 01:40	WG1530240
Methyl Acetate	U		6.45	100	5	08/22/2020 01:40	WG1530240
Methyl Cyclohexane	U		3.30	5.00	5	08/22/2020 01:40	WG1530240
Methylene Chloride	U		2.15	25.0	5	08/22/2020 01:40	WG1530240
4-Methyl-2-pentanone (MIBK)	U		2.39	50.0	5	08/22/2020 01:40	WG1530240
Methyl tert-butyl ether	220		0.505	5.00	5	08/22/2020 01:40	WG1530240
Styrene	U		0.590	5.00	5	08/22/2020 01:40	WG1530240
1,1,2,2-Tetrachloroethane	U		0.665	5.00	5	08/22/2020 01:40	WG1530240
Tetrachloroethene	U		1.50	5.00	5	08/22/2020 01:40	WG1530240
Toluene	U		1.39	5.00	5	08/22/2020 01:40	WG1530240
1,2,3-Trichlorobenzene	U	JO	1.15	5.00	5	08/22/2020 01:40	WG1530240
1,2,4-Trichlorobenzene	U	JO	2.41	5.00	5	08/22/2020 01:40	WG1530240



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		0.745	5.00	5	08/22/2020 01:40	WG1530240
1,1,2-Trichloroethane	U		0.790	5.00	5	08/22/2020 01:40	WG1530240
Trichloroethene	U		0.950	5.00	5	08/22/2020 01:40	WG1530240
Trichlorofluoromethane	U		0.800	25.0	5	08/22/2020 01:40	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.900	5.00	5	08/22/2020 01:40	WG1530240
Vinyl chloride	U	JO	1.17	5.00	5	08/22/2020 01:40	WG1530240
Xylenes, Total	26.9		0.870	15.0	5	08/22/2020 01:40	WG1530240
(S) Toluene-d8	102			80.0-120		08/22/2020 01:40	WG1530240
(S) 4-Bromofluorobenzene	108			77.0-126		08/22/2020 01:40	WG1530240
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		08/22/2020 01:40	WG1530240

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	43400	<u>T8</u>	15.0	50.0	1	08/26/2020 09:33	WG1531050

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	505000		8450	20000	1	08/24/2020 23:17	WG1531098

Sample Narrative:

L1252557-05 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	2780	<u>T8</u>	15.0	50.0	1	08/25/2020 11:34	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/27/2020 21:09	WG1532331

Sample Narrative:

L1252557-05 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	54100	<u>T8</u>	20000	1	08/24/2020 23:17	WG1531098

Sample Narrative:

L1252557-05 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	92.0		25.0	50.0	1	08/24/2020 12:01	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3710000		37900	100000	100	08/24/2020 18:05	WG1531218
Sulfate	229000		5940	50000	10	08/24/2020 17:52	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12700		204	2000	2	08/20/2020 18:38	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	46200		45.8	100	1	08/26/2020 09:33	WG1531050
Manganese	290		3.27	10.0	1	08/26/2020 09:33	WG1531050



Collected date/time: 08/19/20 00:45

L1252557

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2340000		14000	30000	10	08/26/2020 22:53	WG1531050

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1190		2.91	10.0	1	08/27/2020 16:15	WG1529850
Ethane	U		4.07	13.0	1	08/27/2020 16:15	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:15	WG1529850

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	JO	11.3	50.0	1	08/21/2020 23:38	WG1530240
Benzene	0.407	J	0.0941	1.00	1	08/21/2020 23:38	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 23:38	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 23:38	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 23:38	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/21/2020 23:38	WG1530240
Carbon disulfide	0.253	J	0.0962	1.00	1	08/21/2020 23:38	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 23:38	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 23:38	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 23:38	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/21/2020 23:38	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 23:38	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 23:38	WG1530240
Cyclohexane	U		0.188	1.00	1	08/21/2020 23:38	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/21/2020 23:38	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 23:38	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/21/2020 23:38	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 23:38	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 23:38	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 23:38	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/21/2020 23:38	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 23:38	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 23:38	WG1530240
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/21/2020 23:38	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/21/2020 23:38	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 23:38	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 23:38	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 23:38	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 23:38	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/21/2020 23:38	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/21/2020 23:38	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 23:38	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 23:38	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 23:38	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 23:38	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 23:38	WG1530240
Methyl tert-butyl ether	42.2		0.101	1.00	1	08/21/2020 23:38	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 23:38	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 23:38	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 23:38	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 23:38	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/21/2020 23:38	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/21/2020 23:38	WG1530240

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	08/21/2020 23:38	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 23:38	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 23:38	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 23:38	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 23:38	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/21/2020 23:38	WG1530240
Xylenes, Total	U		0.174	3.00	1	08/21/2020 23:38	WG1530240
(S) Toluene-d8	103			80.0-120		08/21/2020 23:38	WG1530240
(S) 4-Bromofluorobenzene	105			77.0-126		08/21/2020 23:38	WG1530240
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		08/21/2020 23:38	WG1530240

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1440	<u>T8</u>	45.8	100	1	08/26/2020 09:36	WG1531050

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	543000		8450	20000	1	08/24/2020 23:24	WG1531098

Sample Narrative:

L1252557-06 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	4880	<u>T8</u>	75.0	250	5	08/25/2020 11:35	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/27/2020 21:10	WG1532331

Sample Narrative:

L1252557-06 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	41200	<u>T8</u>	20000	1	08/24/2020 23:24	WG1531098

Sample Narrative:

L1252557-06 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	08/24/2020 12:01	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2340000		37900	100000	100	08/24/2020 18:31	WG1531218
Sulfate	111000		5940	50000	10	08/24/2020 18:18	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	21600		204	2000	2	08/20/2020 18:58	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	6320		45.8	100	1	08/26/2020 09:36	WG1531050
Manganese	1260		3.27	10.0	1	08/26/2020 09:36	WG1531050



Collected date/time: 08/19/20 01:00

L1252557

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1300000		7000	15000	5	08/26/2020 22:55	WG1531050

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1780		2.91	10.0	1	08/27/2020 16:17	WG1529850
Ethane	6.95	J	4.07	13.0	1	08/27/2020 16:17	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:17	WG1529850

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	JO	11.3	50.0	1	08/21/2020 23:58	WG1530240
Benzene	0.312	J	0.0941	1.00	1	08/21/2020 23:58	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 23:58	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 23:58	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 23:58	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/21/2020 23:58	WG1530240
Carbon disulfide	0.671	J	0.0962	1.00	1	08/21/2020 23:58	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 23:58	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 23:58	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 23:58	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/21/2020 23:58	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 23:58	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 23:58	WG1530240
Cyclohexane	0.267	J	0.188	1.00	1	08/21/2020 23:58	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/21/2020 23:58	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 23:58	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/21/2020 23:58	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 23:58	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 23:58	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 23:58	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/21/2020 23:58	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 23:58	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 23:58	WG1530240
cis-1,2-Dichloroethene	0.517	J	0.126	1.00	1	08/21/2020 23:58	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/21/2020 23:58	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 23:58	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 23:58	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 23:58	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 23:58	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/21/2020 23:58	WG1530240
Isopropylbenzene	0.414	J	0.105	1.00	1	08/21/2020 23:58	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 23:58	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 23:58	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 23:58	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 23:58	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 23:58	WG1530240
Methyl tert-butyl ether	85.5		0.101	1.00	1	08/21/2020 23:58	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 23:58	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 23:58	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 23:58	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 23:58	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/21/2020 23:58	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/21/2020 23:58	WG1530240

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	08/21/2020 23:58	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 23:58	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 23:58	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 23:58	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 23:58	WG1530240
Vinyl chloride	U	<u>JO</u>	0.234	1.00	1	08/21/2020 23:58	WG1530240
Xylenes, Total	U		0.174	3.00	1	08/21/2020 23:58	WG1530240
(S) Toluene-d8	102			80.0-120		08/21/2020 23:58	WG1530240
(S) 4-Bromofluorobenzene	108			77.0-126		08/21/2020 23:58	WG1530240
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		08/21/2020 23:58	WG1530240

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	2800	<u>T8</u>	15.0	50.0	1	08/26/2020 09:39	WG1531050

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	479000		8450	20000	1	08/24/2020 23:31	WG1531098

Sample Narrative:

L1252557-07 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	229	<u>T8</u>	15.0	50.0	1	08/25/2020 11:37	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/27/2020 21:15	WG1532331

Sample Narrative:

L1252557-07 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	52200	<u>T8</u>	20000	1	08/24/2020 23:31	WG1531098

Sample Narrative:

L1252557-07 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	6800		2500	5000	100	08/24/2020 16:53	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8160000		37900	100000	100	08/24/2020 15:54	WG1531218
Sulfate	919000		59400	500000	100	08/24/2020 15:54	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	20100		204	2000	2	08/20/2020 19:12	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3030		45.8	100	1	08/26/2020 09:39	WG1531050
Manganese	871		3.27	10.0	1	08/26/2020 09:39	WG1531050



Collected date/time: 08/19/20 01:20

L1252557

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	3930000		14000	30000	10	08/26/2020 22:58	WG1531050

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2800		2.91	10.0	1	08/27/2020 16:20	WG1529850
Ethane	19.0		4.07	13.0	1	08/27/2020 16:20	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:20	WG1529850

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
Acetone	U	JO	11.3	50.0	1	08/22/2020 00:19	WG1530240
Benzene	0.664	J	0.0941	1.00	1	08/22/2020 00:19	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/22/2020 00:19	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/22/2020 00:19	WG1530240
Bromoform	U		0.129	1.00	1	08/22/2020 00:19	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/22/2020 00:19	WG1530240
Carbon disulfide	1.93		0.0962	1.00	1	08/22/2020 00:19	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/22/2020 00:19	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/22/2020 00:19	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/22/2020 00:19	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/22/2020 00:19	WG1530240
Chloroform	U		0.111	5.00	1	08/22/2020 00:19	WG1530240
Chloromethane	U		0.960	2.50	1	08/22/2020 00:19	WG1530240
Cyclohexane	U		0.188	1.00	1	08/22/2020 00:19	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/22/2020 00:19	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/22/2020 00:19	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/22/2020 00:19	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/22/2020 00:19	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/22/2020 00:19	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/22/2020 00:19	WG1530240
1,1-Dichloroethane	0.104	J	0.100	1.00	1	08/22/2020 00:19	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/22/2020 00:19	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/22/2020 00:19	WG1530240
cis-1,2-Dichloroethene	1.73		0.126	1.00	1	08/22/2020 00:19	WG1530240
trans-1,2-Dichloroethene	0.226	J	0.149	1.00	1	08/22/2020 00:19	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/22/2020 00:19	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/22/2020 00:19	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/22/2020 00:19	WG1530240
Ethylbenzene	0.161	J	0.137	1.00	1	08/22/2020 00:19	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/22/2020 00:19	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/22/2020 00:19	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/22/2020 00:19	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/22/2020 00:19	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/22/2020 00:19	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/22/2020 00:19	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/22/2020 00:19	WG1530240
Methyl tert-butyl ether	72.8		0.101	1.00	1	08/22/2020 00:19	WG1530240
Styrene	U		0.118	1.00	1	08/22/2020 00:19	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/22/2020 00:19	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/22/2020 00:19	WG1530240
Toluene	U		0.278	1.00	1	08/22/2020 00:19	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/22/2020 00:19	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/22/2020 00:19	WG1530240



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	08/22/2020 00:19	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/22/2020 00:19	WG1530240
Trichloroethene	8.84		0.190	1.00	1	08/22/2020 00:19	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/22/2020 00:19	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/22/2020 00:19	WG1530240
Vinyl chloride	U	<u>JO</u>	0.234	1.00	1	08/22/2020 00:19	WG1530240
Xylenes, Total	0.376	<u>J</u>	0.174	3.00	1	08/22/2020 00:19	WG1530240
(S) Toluene-d8	106			80.0-120		08/22/2020 00:19	WG1530240
(S) 4-Bromofluorobenzene	109			77.0-126		08/22/2020 00:19	WG1530240
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		08/22/2020 00:19	WG1530240

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Ferric Iron	836	T8	15.0	50.0	1	08/26/2020 09:42	WG1531050

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	442000		8450	20000	1	08/24/2020 23:39	WG1531098

Sample Narrative:

L1252557-08 WG1531098: 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	481	T8	15.0	50.0	1	08/25/2020 11:38	WG1530449

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		5000	10000	100	08/27/2020 21:16	WG1532331

Sample Narrative:

L1252557-08 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l			
Free Carbon Dioxide	ND	T8	20000	1	08/24/2020 23:39	WG1531098

Sample Narrative:

L1252557-08 WG1531098: 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	25600		2500	5000	100	08/24/2020 16:54	WG1531515

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	1990000		37900	100000	100	08/24/2020 19:23	WG1531218
Sulfate	202000		5940	50000	10	08/24/2020 19:10	WG1531218

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)	40600		510	5000	5	08/20/2020 20:25	WG1529216

Metals (ICP) by Method 6010C

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	1320		45.8	100	1	08/26/2020 09:42	WG1531050
Manganese	126		3.27	10.0	1	08/26/2020 09:42	WG1531050



Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	1460000		7000	15000	5	08/26/2020 23:01	WG1531050

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4380		2.91	10.0	1	08/27/2020 16:25	WG1529850
Ethane	550		4.07	13.0	1	08/27/2020 16:25	WG1529850
Ethene	27.5		4.26	13.0	1	08/27/2020 16:25	WG1529850

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	JO	56.5	250	5	08/22/2020 02:00	WG1530240
Benzene	4.70	J	0.471	5.00	5	08/22/2020 02:00	WG1530240
Bromochloromethane	U		0.640	5.00	5	08/22/2020 02:00	WG1530240
Bromodichloromethane	U		0.680	5.00	5	08/22/2020 02:00	WG1530240
Bromoform	U		0.645	5.00	5	08/22/2020 02:00	WG1530240
Bromomethane	U	JO	3.03	25.0	5	08/22/2020 02:00	WG1530240
Carbon disulfide	6.45		0.481	5.00	5	08/22/2020 02:00	WG1530240
Carbon tetrachloride	U		0.640	5.00	5	08/22/2020 02:00	WG1530240
Chlorobenzene	U		0.580	5.00	5	08/22/2020 02:00	WG1530240
Chlorodibromomethane	U		0.700	5.00	5	08/22/2020 02:00	WG1530240
Chloroethane	U	JO	0.960	25.0	5	08/22/2020 02:00	WG1530240
Chloroform	U		0.555	25.0	5	08/22/2020 02:00	WG1530240
Chloromethane	U		4.80	12.5	5	08/22/2020 02:00	WG1530240
Cyclohexane	U		0.940	5.00	5	08/22/2020 02:00	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	1.38	25.0	5	08/22/2020 02:00	WG1530240
1,2-Dibromoethane	U		0.630	5.00	5	08/22/2020 02:00	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.535	5.00	5	08/22/2020 02:00	WG1530240
1,3-Dichlorobenzene	U		0.550	5.00	5	08/22/2020 02:00	WG1530240
1,4-Dichlorobenzene	U		0.600	5.00	5	08/22/2020 02:00	WG1530240
Dichlorodifluoromethane	U		1.87	25.0	5	08/22/2020 02:00	WG1530240
1,1-Dichloroethane	U		0.500	5.00	5	08/22/2020 02:00	WG1530240
1,2-Dichloroethane	U		0.409	5.00	5	08/22/2020 02:00	WG1530240
1,1-Dichloroethene	U		0.940	5.00	5	08/22/2020 02:00	WG1530240
cis-1,2-Dichloroethene	U		0.630	5.00	5	08/22/2020 02:00	WG1530240
trans-1,2-Dichloroethene	4.20	J	0.745	5.00	5	08/22/2020 02:00	WG1530240
1,2-Dichloropropane	U		0.745	5.00	5	08/22/2020 02:00	WG1530240
cis-1,3-Dichloropropene	U		0.555	5.00	5	08/22/2020 02:00	WG1530240
trans-1,3-Dichloropropene	U		0.590	5.00	5	08/22/2020 02:00	WG1530240
Ethylbenzene	2.57	J	0.685	5.00	5	08/22/2020 02:00	WG1530240
2-Hexanone	U	JO	3.94	50.0	5	08/22/2020 02:00	WG1530240
Isopropylbenzene	U		0.525	5.00	5	08/22/2020 02:00	WG1530240
2-Butanone (MEK)	U		5.95	50.0	5	08/22/2020 02:00	WG1530240
Methyl Acetate	U		6.45	100	5	08/22/2020 02:00	WG1530240
Methyl Cyclohexane	U		3.30	5.00	5	08/22/2020 02:00	WG1530240
Methylene Chloride	U		2.15	25.0	5	08/22/2020 02:00	WG1530240
4-Methyl-2-pentanone (MIBK)	U		2.39	50.0	5	08/22/2020 02:00	WG1530240
Methyl tert-butyl ether	94.3		0.505	5.00	5	08/22/2020 02:00	WG1530240
Styrene	U		0.590	5.00	5	08/22/2020 02:00	WG1530240
1,1,2,2-Tetrachloroethane	U		0.665	5.00	5	08/22/2020 02:00	WG1530240
Tetrachloroethene	U		1.50	5.00	5	08/22/2020 02:00	WG1530240
Toluene	U		1.39	5.00	5	08/22/2020 02:00	WG1530240
1,2,3-Trichlorobenzene	U	JO	1.15	5.00	5	08/22/2020 02:00	WG1530240
1,2,4-Trichlorobenzene	U	JO	2.41	5.00	5	08/22/2020 02:00	WG1530240

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		0.745	5.00	5	08/22/2020 02:00	WG1530240
1,1,2-Trichloroethane	U		0.790	5.00	5	08/22/2020 02:00	WG1530240
Trichloroethene	U		0.950	5.00	5	08/22/2020 02:00	WG1530240
Trichlorofluoromethane	U		0.800	25.0	5	08/22/2020 02:00	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.900	5.00	5	08/22/2020 02:00	WG1530240
Vinyl chloride	U	<u>JO</u>	1.17	5.00	5	08/22/2020 02:00	WG1530240
Xylenes, Total	2.96	<u>J</u>	0.870	15.0	5	08/22/2020 02:00	WG1530240
(S) Toluene-d8	106			80.0-120		08/22/2020 02:00	WG1530240
(S) 4-Bromofluorobenzene	104			77.0-126		08/22/2020 02:00	WG1530240
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		08/22/2020 02:00	WG1530240

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	5040	T8	45.8	100	1	08/26/2020 09:45	WG1531050

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	413000		8450	20000	1	08/24/2020 23:47	WG1531098

Sample Narrative:

L1252557-09 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	5440	T8	75.0	250	5	08/25/2020 11:39	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/27/2020 21:18	WG1532331

Sample Narrative:

L1252557-09 WG1532331: Diluted due to sulfide.

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	46600	T8	20000	1	08/24/2020 23:47	WG1531098

Sample Narrative:

L1252557-09 WG1531098: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	214		25.0	50.0	1	08/24/2020 16:54	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2410000		37900	100000	100	08/24/2020 19:50	WG1531218
Sulfate	166000		5940	50000	10	08/24/2020 19:36	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12300		204	2000	2	08/20/2020 20:40	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	10500		45.8	100	1	08/26/2020 09:45	WG1531050
Manganese	150		3.27	10.0	1	08/26/2020 09:45	WG1531050



Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2230000		7000	15000	5	08/26/2020 23:04	WG1531050

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	409		2.91	10.0	1	08/27/2020 16:34	WG1529850
Ethane	U		4.07	13.0	1	08/27/2020 16:34	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:34	WG1529850

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	JO	11.3	50.0	1	08/22/2020 00:39	WG1530240
Benzene	0.102	J	0.0941	1.00	1	08/22/2020 00:39	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/22/2020 00:39	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/22/2020 00:39	WG1530240
Bromoform	U		0.129	1.00	1	08/22/2020 00:39	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/22/2020 00:39	WG1530240
Carbon disulfide	2.33		0.0962	1.00	1	08/22/2020 00:39	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/22/2020 00:39	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/22/2020 00:39	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/22/2020 00:39	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/22/2020 00:39	WG1530240
Chloroform	U		0.111	5.00	1	08/22/2020 00:39	WG1530240
Chloromethane	U		0.960	2.50	1	08/22/2020 00:39	WG1530240
Cyclohexane	U		0.188	1.00	1	08/22/2020 00:39	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/22/2020 00:39	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/22/2020 00:39	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/22/2020 00:39	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/22/2020 00:39	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/22/2020 00:39	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/22/2020 00:39	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/22/2020 00:39	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/22/2020 00:39	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/22/2020 00:39	WG1530240
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/22/2020 00:39	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/22/2020 00:39	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/22/2020 00:39	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/22/2020 00:39	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/22/2020 00:39	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/22/2020 00:39	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/22/2020 00:39	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/22/2020 00:39	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/22/2020 00:39	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/22/2020 00:39	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/22/2020 00:39	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/22/2020 00:39	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/22/2020 00:39	WG1530240
Methyl tert-butyl ether	11.0		0.101	1.00	1	08/22/2020 00:39	WG1530240
Styrene	U		0.118	1.00	1	08/22/2020 00:39	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/22/2020 00:39	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/22/2020 00:39	WG1530240
Toluene	U		0.278	1.00	1	08/22/2020 00:39	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/22/2020 00:39	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/22/2020 00:39	WG1530240

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	08/22/2020 00:39	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/22/2020 00:39	WG1530240
Trichloroethene	U		0.190	1.00	1	08/22/2020 00:39	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/22/2020 00:39	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/22/2020 00:39	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/22/2020 00:39	WG1530240
Xylenes, Total	U		0.174	3.00	1	08/22/2020 00:39	WG1530240
(S) Toluene-d8	106			80.0-120		08/22/2020 00:39	WG1530240
(S) 4-Bromofluorobenzene	107			77.0-126		08/22/2020 00:39	WG1530240
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		08/22/2020 00:39	WG1530240

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	<u>T8</u>	45.8	100	1	08/26/2020 09:48	WG1531050

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	509000		8450	20000	1	08/24/2020 23:54	WG1531098

Sample Narrative:

L1252557-10 WG1531098: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	52800	<u>T8</u>	750	2500	50	08/25/2020 11:39	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/27/2020 21:19	WG1532331

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	29500	<u>T8</u>	20000		1	08/24/2020 23:54	WG1531098

Sample Narrative:

L1252557-10 WG1531098: 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	08/24/2020 16:54	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17000000		190000	500000	500	08/24/2020 20:16	WG1531218
Sulfate	1970000		59400	500000	100	08/24/2020 20:03	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7560		102	1000	1	08/20/2020 20:57	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	6080		45.8	100	1	08/26/2020 09:48	WG1531050
Manganese	230		3.27	10.0	1	08/26/2020 09:48	WG1531050
Sodium	6370000		28000	60000	20	08/26/2020 23:07	WG1531050



Collected date/time: 08/19/20 02:20

L1252557

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	44.9		2.91	10.0	1	08/27/2020 16:36	WG1529850
Ethane	U		4.07	13.0	1	08/27/2020 16:36	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:36	WG1529850

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	JO	11.3	50.0	1	08/22/2020 00:59	WG1530240
Benzene	U		0.0941	1.00	1	08/22/2020 00:59	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/22/2020 00:59	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/22/2020 00:59	WG1530240
Bromoform	U		0.129	1.00	1	08/22/2020 00:59	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/22/2020 00:59	WG1530240
Carbon disulfide	U		0.0962	1.00	1	08/22/2020 00:59	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/22/2020 00:59	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/22/2020 00:59	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/22/2020 00:59	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/22/2020 00:59	WG1530240
Chloroform	U		0.111	5.00	1	08/22/2020 00:59	WG1530240
Chloromethane	U		0.960	2.50	1	08/22/2020 00:59	WG1530240
Cyclohexane	U		0.188	1.00	1	08/22/2020 00:59	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/22/2020 00:59	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/22/2020 00:59	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/22/2020 00:59	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/22/2020 00:59	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/22/2020 00:59	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/22/2020 00:59	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/22/2020 00:59	WG1530240
1,2-Dichloroethane	0.144	J	0.0819	1.00	1	08/22/2020 00:59	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/22/2020 00:59	WG1530240
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/22/2020 00:59	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/22/2020 00:59	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/22/2020 00:59	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/22/2020 00:59	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/22/2020 00:59	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/22/2020 00:59	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/22/2020 00:59	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/22/2020 00:59	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/22/2020 00:59	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/22/2020 00:59	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/22/2020 00:59	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/22/2020 00:59	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/22/2020 00:59	WG1530240
Methyl tert-butyl ether	0.684	J	0.101	1.00	1	08/22/2020 00:59	WG1530240
Styrene	U		0.118	1.00	1	08/22/2020 00:59	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/22/2020 00:59	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/22/2020 00:59	WG1530240
Toluene	U		0.278	1.00	1	08/22/2020 00:59	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/22/2020 00:59	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/22/2020 00:59	WG1530240
1,1,1-Trichloroethane	U		0.149	1.00	1	08/22/2020 00:59	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/22/2020 00:59	WG1530240
Trichloroethene	U		0.190	1.00	1	08/22/2020 00:59	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/22/2020 00:59	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/22/2020 00:59	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/22/2020 00:59	WG1530240

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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	08/22/2020 00:59	WG1530240
(S) Toluene-d8	105			80.0-120		08/22/2020 00:59	WG1530240
(S) 4-Bromofluorobenzene	103			77.0-126		08/22/2020 00:59	WG1530240
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		08/22/2020 00:59	WG1530240

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	T8	15.0	50.0	1	08/26/2020 09:51	WG1531050

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	16100	J	8450	20000	1	08/25/2020 00:09	WG1531098

Sample Narrative:

L1252557-11 WG1531098: 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	08/25/2020 11:40	WG1530449

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	474	J6	50.0	100	1	08/27/2020 21:20	WG1532331

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	08/25/2020 00:09	WG1531098

Sample Narrative:

L1252557-11 WG1531098: 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	08/24/2020 16:55	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8560		379	1000	1	08/24/2020 20:29	WG1531218
Sulfate	2820	J	594	5000	1	08/24/2020 20:29	WG1531218

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	263	B J	102	1000	1	08/20/2020 21:13	WG1529216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		45.8	100	1	08/26/2020 09:51	WG1531050
Manganese	U		3.27	10.0	1	08/26/2020 09:51	WG1531050
Sodium	8690		1400	3000	1	08/26/2020 09:51	WG1531050



Collected date/time: 08/19/20 02:30

L1252557

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	08/27/2020 16:39	WG1529850
Ethane	U		4.07	13.0	1	08/27/2020 16:39	WG1529850
Ethene	U		4.26	13.0	1	08/27/2020 16:39	WG1529850

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	JO	11.3	50.0	1	08/21/2020 20:15	WG1530240
Benzene	U		0.0941	1.00	1	08/21/2020 20:15	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 20:15	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 20:15	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 20:15	WG1530240
Bromomethane	U	JO	0.605	5.00	1	08/21/2020 20:15	WG1530240
Carbon disulfide	U		0.0962	1.00	1	08/21/2020 20:15	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 20:15	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 20:15	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 20:15	WG1530240
Chloroethane	U	JO	0.192	5.00	1	08/21/2020 20:15	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 20:15	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 20:15	WG1530240
Cyclohexane	U		0.188	1.00	1	08/21/2020 20:15	WG1530240
1,2-Dibromo-3-Chloropropane	U	JO	0.276	5.00	1	08/21/2020 20:15	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 20:15	WG1530240
1,2-Dichlorobenzene	U	JO J4	0.107	1.00	1	08/21/2020 20:15	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 20:15	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 20:15	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 20:15	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/21/2020 20:15	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 20:15	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 20:15	WG1530240
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/21/2020 20:15	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/21/2020 20:15	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 20:15	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 20:15	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 20:15	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 20:15	WG1530240
2-Hexanone	U	JO	0.787	10.0	1	08/21/2020 20:15	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/21/2020 20:15	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 20:15	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 20:15	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 20:15	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 20:15	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 20:15	WG1530240
Methyl tert-butyl ether	U		0.101	1.00	1	08/21/2020 20:15	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 20:15	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 20:15	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 20:15	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 20:15	WG1530240
1,2,3-Trichlorobenzene	U	JO	0.230	1.00	1	08/21/2020 20:15	WG1530240
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	08/21/2020 20:15	WG1530240
1,1,1-Trichloroethane	U		0.149	1.00	1	08/21/2020 20:15	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 20:15	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 20:15	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 20:15	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 20:15	WG1530240
Vinyl chloride	U	JO	0.234	1.00	1	08/21/2020 20:15	WG1530240

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/19/20 02:30

L1252557

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	08/21/2020 20:15	WG1530240
(S) Toluene-d8	106			80.0-120		08/21/2020 20:15	WG1530240
(S) 4-Bromofluorobenzene	102			77.0-126		08/21/2020 20:15	WG1530240
(S) 1,2-Dichloroethane-d4	101			70.0-130		08/21/2020 20:15	WG1530240

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	<u>JO</u>	11.3	50.0	1	08/21/2020 20:35	WG1530240
Benzene	U		0.0941	1.00	1	08/21/2020 20:35	WG1530240
Bromochloromethane	U		0.128	1.00	1	08/21/2020 20:35	WG1530240
Bromodichloromethane	U		0.136	1.00	1	08/21/2020 20:35	WG1530240
Bromoform	U		0.129	1.00	1	08/21/2020 20:35	WG1530240
Bromomethane	U	<u>JO</u>	0.605	5.00	1	08/21/2020 20:35	WG1530240
Carbon disulfide	U		0.0962	1.00	1	08/21/2020 20:35	WG1530240
Carbon tetrachloride	U		0.128	1.00	1	08/21/2020 20:35	WG1530240
Chlorobenzene	U		0.116	1.00	1	08/21/2020 20:35	WG1530240
Chlorodibromomethane	U		0.140	1.00	1	08/21/2020 20:35	WG1530240
Chloroethane	U	<u>JO</u>	0.192	5.00	1	08/21/2020 20:35	WG1530240
Chloroform	U		0.111	5.00	1	08/21/2020 20:35	WG1530240
Chloromethane	U		0.960	2.50	1	08/21/2020 20:35	WG1530240
Cyclohexane	U		0.188	1.00	1	08/21/2020 20:35	WG1530240
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	5.00	1	08/21/2020 20:35	WG1530240
1,2-Dibromoethane	U		0.126	1.00	1	08/21/2020 20:35	WG1530240
1,2-Dichlorobenzene	U	<u>JO J4</u>	0.107	1.00	1	08/21/2020 20:35	WG1530240
1,3-Dichlorobenzene	U		0.110	1.00	1	08/21/2020 20:35	WG1530240
1,4-Dichlorobenzene	U		0.120	1.00	1	08/21/2020 20:35	WG1530240
Dichlorodifluoromethane	U		0.374	5.00	1	08/21/2020 20:35	WG1530240
1,1-Dichloroethane	U		0.100	1.00	1	08/21/2020 20:35	WG1530240
1,2-Dichloroethane	U		0.0819	1.00	1	08/21/2020 20:35	WG1530240
1,1-Dichloroethene	U		0.188	1.00	1	08/21/2020 20:35	WG1530240
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/21/2020 20:35	WG1530240
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/21/2020 20:35	WG1530240
1,2-Dichloropropane	U		0.149	1.00	1	08/21/2020 20:35	WG1530240
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/21/2020 20:35	WG1530240
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/21/2020 20:35	WG1530240
Ethylbenzene	U		0.137	1.00	1	08/21/2020 20:35	WG1530240
2-Hexanone	U	<u>JO</u>	0.787	10.0	1	08/21/2020 20:35	WG1530240
Isopropylbenzene	U		0.105	1.00	1	08/21/2020 20:35	WG1530240
2-Butanone (MEK)	U		1.19	10.0	1	08/21/2020 20:35	WG1530240
Methyl Acetate	U		1.29	20.0	1	08/21/2020 20:35	WG1530240
Methyl Cyclohexane	U		0.660	1.00	1	08/21/2020 20:35	WG1530240
Methylene Chloride	U		0.430	5.00	1	08/21/2020 20:35	WG1530240
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/21/2020 20:35	WG1530240
Methyl tert-butyl ether	U		0.101	1.00	1	08/21/2020 20:35	WG1530240
Styrene	U		0.118	1.00	1	08/21/2020 20:35	WG1530240
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/21/2020 20:35	WG1530240
Tetrachloroethene	U		0.300	1.00	1	08/21/2020 20:35	WG1530240
Toluene	U		0.278	1.00	1	08/21/2020 20:35	WG1530240
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.230	1.00	1	08/21/2020 20:35	WG1530240
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	08/21/2020 20:35	WG1530240
1,1,1-Trichloroethane	U		0.149	1.00	1	08/21/2020 20:35	WG1530240
1,1,2-Trichloroethane	U		0.158	1.00	1	08/21/2020 20:35	WG1530240
Trichloroethene	U		0.190	1.00	1	08/21/2020 20:35	WG1530240
Trichlorofluoromethane	U		0.160	5.00	1	08/21/2020 20:35	WG1530240
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/21/2020 20:35	WG1530240
Vinyl chloride	U	<u>JO</u>	0.234	1.00	1	08/21/2020 20:35	WG1530240
Xylenes, Total	U		0.174	3.00	1	08/21/2020 20:35	WG1530240
(S) Toluene-d8	103			80.0-120		08/21/2020 20:35	WG1530240
(S) 4-Bromofluorobenzene	101			77.0-126		08/21/2020 20:35	WG1530240
(S) 1,2-Dichloroethane-d4	101			70.0-130		08/21/2020 20:35	WG1530240

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3563715-1 08/24/20 21:22

	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

L1249966-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1249966-03 08/24/20 21:41 • (DUP) R3563715-3 08/24/20 21:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	207000	208000	1	0.386		20

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

L1252557-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-10 08/24/20 23:54 • (DUP) R3563715-6 08/25/20 00:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	509000	509000	1	0.0665		20

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

Laboratory Control Sample (LCS)

(LCS) R3563715-5 08/24/20 22:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	98800	98.8	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3563490-1 08/25/20 11:11

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1252427-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1252427-10 08/25/20 11:21 • (DUP) R3563490-3 08/25/20 11:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	27.0	25.0	1	7.69	⬇	20

L1252562-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1252562-05 08/25/20 11:41 • (DUP) R3563490-6 08/25/20 11:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	1450	1460	1	1.31		20

Laboratory Control Sample (LCS)

(LCS) R3563490-2 08/25/20 11:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	963	96.3	85.0-115	

L1252557-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252557-11 08/25/20 11:40 • (MS) R3563490-4 08/25/20 11:40 • (MSD) R3563490-5 08/25/20 11:41

	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	U	968	944	96.8	94.4	1	80.0-120			2.51	20



Method Blank (MB)

(MB) R3564638-1 08/27/20 21:00

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1252557-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-03 08/27/20 21:05 • (DUP) R3564638-3 08/27/20 21:06

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

L1252741-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1252741-07 08/27/20 21:36 • (DUP) R3564638-6 08/27/20 21:37

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

Laboratory Control Sample (LCS)

(LCS) R3564638-2 08/27/20 21:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	4000	2490	99.6	90.0-110	

L1252557-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252557-11 08/27/20 21:20 • (MS) R3564638-4 08/27/20 21:22 • (MSD) R3564638-5 08/27/20 21:23

	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	474	2650	2540	87.0	82.6	1	90.0-110	J6	J6	4.24	20

L1252741-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1252741-08 08/27/20 21:38 • (MS) R3564638-7 08/27/20 21:40

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	U	1890	75.6	1	90.0-110	J6

Method Blank (MB)

(MB) R3563715-2 08/24/20 21:22

	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

L1249966-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1249966-03 08/24/20 21:41 • (DUP) R3563715-4 08/24/20 21:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	44100	45100	1	2.11		20

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

L1252557-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-10 08/24/20 23:54 • (DUP) R3563715-7 08/25/20 00:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	29500	28900	1	2.17		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) R3563052-1 08/24/20 11:55				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.0	50.0

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

L1252557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-01 08/24/20 11:58 • (DUP) R3563052-3 08/24/20 11:58						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

L1252580-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252580-01 08/24/20 12:02 • (DUP) R3563052-6 08/24/20 12:02						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3563052-2 08/24/20 11:55					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	464	92.8	85.0-115	

L1252557-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252557-03 08/24/20 11:59 • (MS) R3563052-4 08/24/20 11:59 • (MSD) R3563052-5 08/24/20 12:00										
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%		
Sulfide	1000	U	851	840	85.1	84.0	1	80.0-120		
									RPD	RPD Limits
									%	%
									1.30	20

Method Blank (MB)

(MB) R3563264-1 08/24/20 16:52

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

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1252557-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-10 08/24/20 16:54 • (DUP) R3563264-3 08/24/20 16:55

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

L1253053-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1253053-05 08/24/20 16:58 • (DUP) R3563264-6 08/24/20 16:58

	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) R3563264-2 08/24/20 16:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	502	100	85.0-115	

L1253053-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253053-02 08/24/20 16:56 • (MS) R3563264-4 08/24/20 16:56 • (MSD) R3563264-5 08/24/20 16:56

	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	1000	1360	1840	1910	47.9	54.8	1	80.0-120	J6	J6	3.68	20



Method Blank (MB)

(MB) R3563486-1 08/24/20 10:55

	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

L1252553-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252553-01 08/24/20 14:36 • (DUP) R3563486-3 08/24/20 14:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	3800	3880	1	2.03		15
Sulfate	9540	9860	1	3.24		15

L1252557-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-11 08/24/20 20:29 • (DUP) R3563486-6 08/24/20 20:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	8560	8590	1	0.364		15
Sulfate	2820	2830	1	0.301	U	15

Laboratory Control Sample (LCS)

(LCS) R3563486-2 08/24/20 11:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40300	101	80.0-120	
Sulfate	40000	40800	102	80.0-120	

L1252553-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252553-01 08/24/20 14:36 • (MS) R3563486-4 08/24/20 15:02 • (MSD) R3563486-5 08/24/20 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	%	%		%			%	%
Chloride	50000	3800	55500	55700	103	104	1	80.0-120			0.318	15
Sulfate	50000	9540	62200	62200	105	105	1	80.0-120			0.129	15



[L1252557-01,02,03,04,05,06,07,08,09,10,11](#)

L1252741-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L1252741-22 08/24/20 21:47 • (MS) R3563486-7 08/24/20 22:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	238000	273000	71.2	1	80.0-120	E V
Sulfate	50000	209000	246000	74.4	1	80.0-120	E V

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3562207-1 08/20/20 09:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	216	⬇	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1252338-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252338-01 08/20/20 13:38 • (DUP) R3562207-5 08/20/20 14:50

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3610	3560	1	1.42		20

L1252557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-01 08/20/20 17:22 • (DUP) R3562207-6 08/20/20 17:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	15800	16300	2	3.55		20

Laboratory Control Sample (LCS)

(LCS) R3562207-2 08/20/20 10:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	76200	102	85.0-115	

L1252226-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252226-01 08/20/20 12:39 • (MS) R3562207-3 08/20/20 12:58 • (MSD) R3562207-4 08/20/20 13:26

	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	2810	51300	52300	97.1	99.0	1	80.0-120			1.89	20

L1252557-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252557-11 08/20/20 21:13 • (MS) R3562207-7 08/20/20 21:29 • (MSD) R3562207-8 08/20/20 21:45

	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	263	51100	52500	102	104	1	80.0-120			2.74	20



Method Blank (MB)

(MB) R3564074-1 08/26/20 08:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		45.8	100
Manganese	U		3.27	10.0
Sodium	U		1400	3000

Laboratory Control Sample (LCS)

(LCS) R3564074-2 08/26/20 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9400	94.0	80.0-120	
Manganese	1000	954	95.4	80.0-120	
Sodium	10000	10200	102	80.0-120	

L1252746-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252746-03 08/26/20 09:02 • (MS) R3564074-4 08/26/20 09:07 • (MSD) R3564074-5 08/26/20 09:10

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	118	9510	9540	93.9	94.3	1	75.0-125			0.400	20
Manganese	1000	4.18	960	958	95.6	95.4	1	75.0-125			0.247	20
Sodium	10000	14700	25100	26100	104	114	1	75.0-125			3.96	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3564560-2 08/27/20 15:30

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

L1252548-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252548-01 08/27/20 15:49 • (DUP) R3564560-3 08/27/20 16:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	1910	1830	1	4.28		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1252557-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-03 08/27/20 16:10 • (DUP) R3564560-4 08/27/20 16:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	55.8	68.6	1	20.6		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3564560-1 08/27/20 13:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Methane	67.8	70.6	104	85.0-115	
Ethane	129	127	98.4	85.0-115	
Ethene	127	121	95.3	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3562798-2 08/21/20 19:14

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) R3562798-2 08/21/20 19:14

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	103			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	96.7			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3562798-1 08/21/20 18:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	20.8	83.2	19.0-160	
Benzene	5.00	4.71	94.2	70.0-123	
Bromodichloromethane	5.00	5.03	101	75.0-120	
Bromochloromethane	5.00	5.53	111	76.0-122	
Bromoform	5.00	5.69	114	68.0-132	
Bromomethane	5.00	3.14	62.8	10.0-160	
Carbon disulfide	5.00	4.93	98.6	61.0-128	
Carbon tetrachloride	5.00	5.15	103	68.0-126	
Chlorobenzene	5.00	4.84	96.8	80.0-121	
Chlorodibromomethane	5.00	5.42	108	77.0-125	
Chloroethane	5.00	3.48	69.6	47.0-150	
Chloroform	5.00	4.86	97.2	73.0-120	
Chloromethane	5.00	4.66	93.2	41.0-142	
Cyclohexane	5.00	4.59	91.8	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	3.54	70.8	58.0-134	
1,2-Dibromoethane	5.00	5.04	101	80.0-122	
1,2-Dichlorobenzene	5.00	3.84	76.8	79.0-121	J4
1,3-Dichlorobenzene	5.00	4.82	96.4	79.0-120	
1,4-Dichlorobenzene	5.00	4.32	86.4	79.0-120	
Dichlorodifluoromethane	5.00	6.02	120	51.0-149	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3562798-1 08/21/20 18:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,1-Dichloroethane	5.00	4.67	93.4	70.0-126	
1,2-Dichloroethane	5.00	4.73	94.6	70.0-128	
1,1-Dichloroethene	5.00	5.12	102	71.0-124	
cis-1,2-Dichloroethene	5.00	4.98	99.6	73.0-120	
trans-1,2-Dichloroethene	5.00	5.21	104	73.0-120	
1,2-Dichloropropane	5.00	4.77	95.4	77.0-125	
cis-1,3-Dichloropropene	5.00	5.13	103	80.0-123	
trans-1,3-Dichloropropene	5.00	4.79	95.8	78.0-124	
Ethylbenzene	5.00	4.63	92.6	79.0-123	
2-Hexanone	25.0	21.0	84.0	67.0-149	
Isopropylbenzene	5.00	4.41	88.2	76.0-127	
2-Butanone (MEK)	25.0	22.3	89.2	44.0-160	
Methyl Acetate	25.0	22.9	91.6	57.0-148	
Methyl Cyclohexane	5.00	4.69	93.8	68.0-126	
Methylene Chloride	5.00	4.76	95.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	22.2	88.8	68.0-142	
Methyl tert-butyl ether	5.00	4.41	88.2	68.0-125	
Styrene	5.00	4.61	92.2	73.0-130	
1,1,2,2-Tetrachloroethane	5.00	4.64	92.8	65.0-130	
Tetrachloroethene	5.00	5.72	114	72.0-132	
Toluene	5.00	4.73	94.6	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	5.66	113	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.82	76.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	3.61	72.2	57.0-137	
1,1,1-Trichloroethane	5.00	4.92	98.4	73.0-124	
1,1,2-Trichloroethane	5.00	5.01	100	80.0-120	
Trichloroethene	5.00	5.52	110	78.0-124	
Trichlorofluoromethane	5.00	5.21	104	59.0-147	
Vinyl chloride	5.00	3.83	76.6	67.0-131	
Xylenes, Total	15.0	13.9	92.7	79.0-123	
(S) Toluene-d8			104	80.0-120	
(S) 4-Bromofluorobenzene			106	77.0-126	
(S) 1,2-Dichloroethane-d4			98.9	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met 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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

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

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

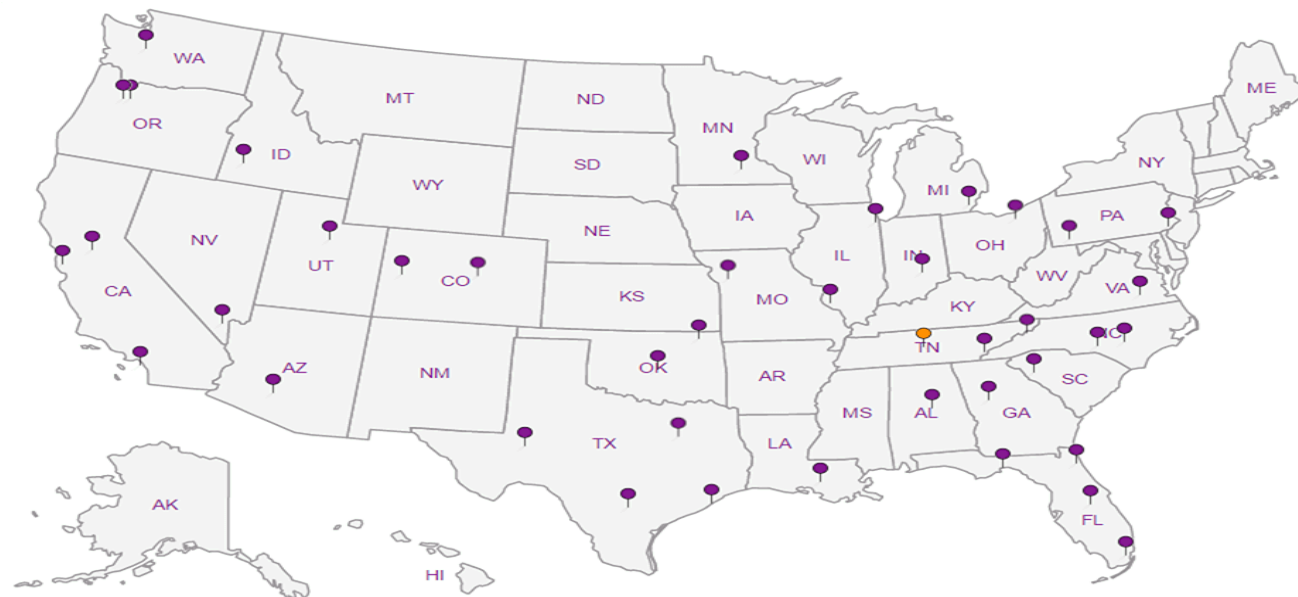
Third Party Federal Accreditations

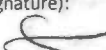
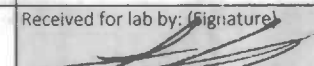
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City NY 11101 Report to: Loretta Kwong Project Description: Oceanside 6518040 City/State Collected: Oceanside NY Please Circle: PT MT CT ET				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129 Email To: loretta.kwong@arcadis.com; renee.parisi@arcad		Chain of Custody Page <u>1</u> of <u>2</u>  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 SDG # L1252557 Table # Acctnum: CHEVARCNY Template: T168700 Prelogin: P791533 PM: 526 - Chris McCord PB: EV Shipped Via: FedEX Ground	
				Phone: 718-446-0116 Client Project # 30044997.3722 Lab Project # CHEVARCNY-6518040 Site/Facility ID # 6518040 P.O. # Quote # Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day Date Results Needed No. of Cntrs		Analysis / Container / Preservative ALK, CO2, CI, SO4 250ml HDPE NoPres FEICP, MNICP, NAICP 250ml HDPE-HNO3 FERICFE, FERUSFE 250ml Amb-HCl NO2NO3 250ml HDPE-H2SO4 RSK175 40ml Amb HCl SULFIDE 250ml Amb-S-NaOH+ZnAc 7/12 TOC 250ml HDPE-HCl V8260TCLC 40ml Amb-HCl	
Collected by (print): Rebecca Desmond Collected by (signature):  Immediately Packed on Ice N ☐ Y ☒							
Sample ID Comp/Grab Matrix * Depth Date Time No. of Cntrs							
MW-150-W- MW-2402-W-20200818 BD-W-20200819				G GW 8-18-20 2300 11 X X X X X X X X			
MW-24VDR-W-20200818 MW-24DIR-W-20200819				G GW 8-18-20 2330 11 X X X X X X X X			
MW-2302R-W-20200819 MW-23DIR-W-20200819				G GW 8-19-20 0005 11 X X X X X X X X			
MW-1503-W-20200819 MW-1501-W-20200819				G GW 8-19-20 0045 11 X X X X X X X X			
MW-1502-W-20200819 MW-15VD-W-20200819				G GW 8-19-20 0100 11 X X X X X X X X			
MW-1502-W-20200819 MW-15VD-W-20200819				G GW 8-19-20 0120 11 X X X X X X X X			
MW-1501-W-20200819 MW-1502-W-20200819				G GW 8-19-20 0140 11 X X X X X X X X			
MW-1502-W-20200819 MW-15VD-W-20200819				G GW 8-19-20 0200 11 X X X X X X X X			
MW-1502-W-20200819 MW-15VD-W-20200819				G GW 8-19-20 0220 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: Poland spring H2O used for field Blank pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☐ UPS ☒ FedEx ☐ Courier Tracking # 9050 0891 0492			
Relinquished by: (Signature) Felix ConGo Date: 8-19-20 Time: 1215				Received by: (Signature) _____ Trip Blank Received: ☒ Yes / No ☒ HCL / MeOH ☐ TBR			
Relinquished by: (Signature) _____ Date: _____ Time: _____				Temp: _____ °C Bottles Received: 121 1.4-1.32K			
Relinquished by: (Signature) _____ Date: _____ Time: _____				Received for lab by: (Signature)  Date: 8/20/20 Time: 9:15 Hold: _____ Condition: NCF / OK			

Erica McNeese

To: Chris McCord; Parisi, Renée
Subject: RE: Lab Report/EDD Revision

From: Parisi, Renée <Renee.Parisi@arcadis.com>
Sent: Thursday, September 17, 2020 7:54 AM
To: Chris McCord <CMcCord@pacenational.com>
Subject: Lab Report/EDD Revision

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Chris,

I need to have the attached Lab Report and EDD revised. It appears our staff labeled the Well IDs wrong on the COC. All of the wells should have a dash between the number and the zone, for example, MW-24-D2-W-YYMMDD

Second the MW-15 wells should be AMW-15.

My apologies, and please reach out with any questions. Thank you.

Renée Parisi | Environmental Task Manager | Renee.Parisi@arcadis.com
Arcadis | Arcadis U.S., Inc.
50 Millstone Rd, Building 200, Suite 220 | East Windsor, NJ | USA
M. +1 908 616 4848 | O. + 1 609 366 9037

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Be green, leave it on the screen.

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October 05, 2020

Revised Report

Arcadis - Chevron - NY

Sample Delivery Group: L1253116
Samples Received: 08/21/2020
Project Number: 30044997.3722
Description: Oceanside 6518040
Site: 6518040
Report To: Loretta Kwong
27-01 Queens Plaza North
Suite 800
New York City, NY 11101

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.



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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-27-D2-W-20200819 L1253116-01 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 20:50

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:50	08/28/20 16:50	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 18:13	08/26/20 18:13	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 16:50	08/28/20 16:50	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 18:47	08/28/20 18:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 18:13	08/26/20 18:13	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 16:58	08/24/20 16:58	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 00:03	08/25/20 00:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 00:13	08/25/20 00:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	1	08/24/20 20:01	08/24/20 20:01	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 14:49	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	10	08/25/20 12:55	08/26/20 23:09	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531746	1	08/25/20 16:48	08/25/20 16:48	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 15:54	08/23/20 15:54	ADM	Mt. Juliet, TN

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

MW-28-D2R-W-20200819 L1253116-02 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 20:30

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:51	08/28/20 16:51	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 18:28	08/26/20 18:28	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	5	08/28/20 16:51	08/28/20 16:51	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 18:54	08/28/20 18:54	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 18:28	08/26/20 18:28	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 16:59	08/24/20 16:59	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 00:24	08/25/20 00:24	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	1	08/24/20 21:32	08/24/20 21:32	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 14:52	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	20	08/25/20 12:55	08/26/20 23:17	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531746	1	08/25/20 16:50	08/25/20 16:50	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 16:14	08/23/20 16:14	ADM	Mt. Juliet, TN

AMW-7R-W-20200819 L1253116-03 GW

Collected by
Selix/Desmond

Collected date/time
08/17/20 23:05

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:53	08/28/20 16:53	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 18:36	08/26/20 18:36	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	50	08/28/20 16:53	08/28/20 16:53	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	5	08/28/20 18:56	08/28/20 18:56	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 18:36	08/26/20 18:36	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531125	1	08/24/20 12:03	08/24/20 12:03	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	5	08/25/20 00:35	08/25/20 00:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	1	08/24/20 21:50	08/24/20 21:50	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 14:55	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531746	1	08/26/20 13:18	08/26/20 13:18	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 16:33	08/23/20 16:33	ADM	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



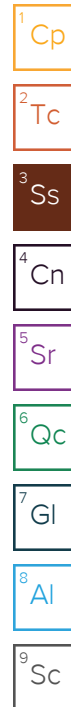
AMW-14-VD-W-20200819 L1253116-04 GW

Collected by
Selix/Desmond

Collected date/time
08/20/20 21:30

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:57	08/28/20 16:57	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 18:44	08/26/20 18:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	5	08/28/20 16:57	08/28/20 16:57	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 18:58	08/28/20 18:58	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 18:44	08/26/20 18:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 17:00	08/24/20 17:00	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 09:43	08/25/20 09:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	500	08/25/20 09:53	08/25/20 09:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	1	08/24/20 22:16	08/24/20 22:16	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 14:58	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	20	08/25/20 12:55	08/26/20 23:20	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531746	1	08/26/20 13:26	08/26/20 13:26	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 16:52	08/23/20 16:52	ADM	Mt. Juliet, TN



AMW-14-D2-W-20200819 L1253116-05 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 21:50

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:57	08/28/20 16:57	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 18:51	08/26/20 18:51	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 16:57	08/28/20 16:57	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	20	08/28/20 18:57	08/28/20 18:57	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 18:51	08/26/20 18:51	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	10	08/24/20 17:00	08/24/20 17:00	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 01:08	08/25/20 01:08	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 01:40	08/25/20 01:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	5	08/24/20 23:09	08/24/20 23:09	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:01	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	10	08/25/20 12:55	08/26/20 23:23	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531746	1	08/26/20 13:32	08/26/20 13:32	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	10	08/23/20 19:07	08/23/20 19:07	ADM	Mt. Juliet, TN

MW-28-D1-W-20200819 L1253116-06 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 20:10

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:00	08/26/20 19:00	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 18:59	08/28/20 18:59	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:00	08/26/20 19:00	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 17:01	08/24/20 17:01	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 01:51	08/25/20 01:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 02:02	08/25/20 02:02	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	2	08/24/20 23:27	08/24/20 23:27	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:04	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	5	08/25/20 12:55	08/26/20 23:26	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 14:34	08/25/20 14:34	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 17:11	08/23/20 17:11	ADM	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-26-D2-W-20200819 L1253116-07 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 19:30

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:08	08/26/20 19:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	5	08/28/20 19:01	08/28/20 19:01	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:08	08/26/20 19:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	100	08/24/20 17:01	08/24/20 17:01	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 02:13	08/25/20 02:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 02:24	08/25/20 02:24	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	2	08/24/20 23:44	08/24/20 23:44	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:07	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	5	08/25/20 12:55	08/26/20 23:29	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 14:37	08/25/20 14:37	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 17:31	08/23/20 17:31	ADM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

FB-20200820 L1253116-08 GW

Collected by
Selix/Desmond

Collected date/time
08/20/20 00:05

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:15	08/26/20 19:15	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 16:58	08/28/20 16:58	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 19:02	08/28/20 19:02	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:15	08/26/20 19:15	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	1	08/24/20 17:01	08/24/20 17:01	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	1	08/25/20 02:35	08/25/20 02:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1530216	1	08/24/20 23:57	08/24/20 23:57	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:16	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 14:39	08/25/20 14:39	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 14:18	08/23/20 14:18	ADM	Mt. Juliet, TN

MW-27-D1R-W-20200819 L1253116-09 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 21:10

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 16:59	08/28/20 16:59	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:34	08/26/20 19:34	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	25	08/28/20 16:59	08/28/20 16:59	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	20	08/28/20 19:03	08/28/20 19:03	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:34	08/26/20 19:34	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	100	08/24/20 17:02	08/24/20 17:02	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 02:45	08/25/20 02:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 02:56	08/25/20 02:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1531428	5	08/25/20 16:47	08/25/20 16:47	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:18	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	10	08/25/20 12:55	08/26/20 23:32	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 14:42	08/25/20 14:42	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	5	08/23/20 19:27	08/23/20 19:27	ADM	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-26-D1-W-20200819 L1253116-10 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 19:15

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 17:01	08/28/20 17:01	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:43	08/26/20 19:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 17:01	08/28/20 17:01	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	5	08/28/20 22:23	08/28/20 22:23	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:43	08/26/20 19:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1531515	100	08/24/20 17:02	08/24/20 17:02	MJA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 03:07	08/25/20 03:07	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 03:18	08/25/20 03:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1531428	2	08/25/20 17:04	08/25/20 17:04	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:21	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	5	08/25/20 12:55	08/26/20 23:34	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 14:51	08/25/20 14:51	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 17:50	08/23/20 17:50	ADM	Mt. Juliet, TN

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

MW-29-D1-W-20200819 L1253116-11 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 23:20

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 17:02	08/28/20 17:02	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:50	08/26/20 19:50	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 17:02	08/28/20 17:02	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	1	08/28/20 22:25	08/28/20 22:25	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:50	08/26/20 19:50	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1532260	1	08/26/20 18:14	08/26/20 18:14	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 03:51	08/25/20 03:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 04:01	08/25/20 04:01	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1531428	2	08/25/20 17:58	08/25/20 17:58	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:24	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 15:00	08/25/20 15:00	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 18:09	08/23/20 18:09	ADM	Mt. Juliet, TN

AMW-14-D1-W-20200819 L1253116-12 GW

Collected by
Selix/Desmond

Collected date/time
08/19/20 22:10

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1531368	1	08/28/20 17:03	08/28/20 17:03	JIC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1531767	1	08/26/20 19:58	08/26/20 19:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1530451	1	08/28/20 17:03	08/28/20 17:03	JIC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1534093	20	08/28/20 22:27	08/28/20 22:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1531767	1	08/26/20 19:58	08/26/20 19:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1532260	10	08/26/20 18:14	08/26/20 18:14	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	10	08/25/20 04:12	08/25/20 04:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531220	100	08/25/20 04:23	08/25/20 04:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1531428	5	08/25/20 19:53	08/25/20 19:53	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	1	08/25/20 12:55	08/26/20 15:27	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1531368	5	08/25/20 12:55	08/26/20 23:37	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1531747	1	08/25/20 15:23	08/25/20 15:23	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 18:29	08/23/20 18:29	ADM	Mt. Juliet, TN



TRIP BLANK L1253116-13 GW

Collected by
Selix/DesmondCollected date/time
08/19/20 00:00Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1531017	1	08/23/20 14:37	08/23/20 14:37	ADM	Mt. Juliet, TN

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



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

Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 08/31/20 15:03

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	<u>T8</u>	15.0	50.0	1	08/28/2020 16:50	WG1531368

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	397000		8450	20000	1	08/26/2020 18:13	WG1531767

Sample Narrative:

L1253116-01 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1470	<u>T8</u>	15.0	50.0	1	08/28/2020 16:50	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U	<u>J6</u>	50.0	100	1	08/28/2020 18:47	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	75400	<u>T8</u>	20000		1	08/26/2020 18:13	WG1531767

Sample Narrative:

L1253116-01 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	47.0	<u>J</u>	25.0	50.0	1	08/24/2020 16:58	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3690000		37900	100000	100	08/25/2020 00:13	WG1531220
Sulfate	367000		5940	50000	10	08/25/2020 00:03	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8900		102	1000	1	08/24/2020 20:01	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	747		45.8	100	1	08/26/2020 14:49	WG1531368
Manganese	199		3.27	10.0	1	08/26/2020 14:49	WG1531368
Sodium	2470000		14000	30000	10	08/26/2020 23:09	WG1531368



Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	876		2.91	10.0	1	08/25/2020 16:48	WG1531746
Ethane	U		4.07	13.0	1	08/25/2020 16:48	WG1531746
Ethene	U		4.26	13.0	1	08/25/2020 16:48	WG1531746

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>JO</u>	11.3	50.0	1	08/23/2020 15:54	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 15:54	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 15:54	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 15:54	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 15:54	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 15:54	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 15:54	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 15:54	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 15:54	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 15:54	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 15:54	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 15:54	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 15:54	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 15:54	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 15:54	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 15:54	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 15:54	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 15:54	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 15:54	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 15:54	WG1531017
1,1-Dichloroethane	0.483	<u>J</u>	0.100	1.00	1	08/23/2020 15:54	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 15:54	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 15:54	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 15:54	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 15:54	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 15:54	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 15:54	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 15:54	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 15:54	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 15:54	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 15:54	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 15:54	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 15:54	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 15:54	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 15:54	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 15:54	WG1531017
Methyl tert-butyl ether	1.21		0.101	1.00	1	08/23/2020 15:54	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 15:54	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 15:54	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 15:54	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 15:54	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 15:54	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 15:54	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 15:54	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 15:54	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 15:54	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 15:54	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 15:54	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 15:54	WG1531017

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/19/20 20:50

L1253116

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	08/23/2020 15:54	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 15:54	WG1531017
(S) 4-Bromofluorobenzene	97.4			77.0-126		08/23/2020 15:54	WG1531017
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/23/2020 15:54	WG1531017

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	43800	T8	45.8	100	1	08/28/2020 16:51	WG1531368

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	343000		8450	20000	1	08/26/2020 18:28	WG1531767

Sample Narrative:

L1253116-02 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	4540	T8	75.0	250	5	08/28/2020 16:51	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	08/28/2020 18:54	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	90300	T8	20000		1	08/26/2020 18:28	WG1531767

Sample Narrative:

L1253116-02 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	08/24/2020 16:59	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	9550000		37900	100000	100	08/25/2020 00:24	WG1531220
Sulfate	1140000		59400	500000	100	08/25/2020 00:24	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6560		102	1000	1	08/24/2020 21:32	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	48300		45.8	100	1	08/26/2020 14:52	WG1531368
Manganese	855		3.27	10.0	1	08/26/2020 14:52	WG1531368
Sodium	5750000		28000	60000	20	08/26/2020 23:17	WG1531368



Collected date/time: 08/19/20 20:30

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	212		2.91	10.0	1	08/25/2020 16:50	WG1531746
Ethane	U		4.07	13.0	1	08/25/2020 16:50	WG1531746
Ethene	U		4.26	13.0	1	08/25/2020 16:50	WG1531746

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	JO	11.3	50.0	1	08/23/2020 16:14	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 16:14	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 16:14	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 16:14	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 16:14	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 16:14	WG1531017
Carbon disulfide	0.404	J	0.0962	1.00	1	08/23/2020 16:14	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 16:14	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 16:14	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 16:14	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 16:14	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 16:14	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 16:14	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 16:14	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 16:14	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 16:14	WG1531017
1,2-Dichlorobenzene	0.251	J	0.107	1.00	1	08/23/2020 16:14	WG1531017
1,3-Dichlorobenzene	U	J4	0.110	1.00	1	08/23/2020 16:14	WG1531017
1,4-Dichlorobenzene	U	J4	0.120	1.00	1	08/23/2020 16:14	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 16:14	WG1531017
1,1-Dichloroethane	0.186	J	0.100	1.00	1	08/23/2020 16:14	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 16:14	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 16:14	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 16:14	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 16:14	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 16:14	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 16:14	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 16:14	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 16:14	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 16:14	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 16:14	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 16:14	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 16:14	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 16:14	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 16:14	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 16:14	WG1531017
Methyl tert-butyl ether	U		0.101	1.00	1	08/23/2020 16:14	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 16:14	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 16:14	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 16:14	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 16:14	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 16:14	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 16:14	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 16:14	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 16:14	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 16:14	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 16:14	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 16:14	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 16:14	WG1531017

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 08/19/20 20:30

L1253116

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	08/23/2020 16:14	WG1531017
(S) Toluene-d8	110			80.0-120		08/23/2020 16:14	WG1531017
(S) 4-Bromofluorobenzene	95.1			77.0-126		08/23/2020 16:14	WG1531017
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/23/2020 16:14	WG1531017

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	83600	T8	45.8	100	1	08/28/2020 16:53	WG1531368

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	656000		8450	20000	1	08/26/2020 18:36	WG1531767

Sample Narrative:

L1253116-03 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	11200	T8	750	2500	50	08/28/2020 16:53	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/28/2020 18:56	WG1534093

Sample Narrative:

L1253116-03 WG1534093: Dilution due to sulfide interference

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	46300	T8	20000	1	08/26/2020 18:36	WG1531767

Sample Narrative:

L1253116-03 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	62.0		25.0	50.0	1	08/24/2020 12:03	WG1531125

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	86600		1900	5000	5	08/25/2020 00:35	WG1531220
Sulfate	96200		2970	25000	5	08/25/2020 00:35	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28900		102	1000	1	08/24/2020 21:50	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	94900		45.8	100	1	08/26/2020 14:55	WG1531368
Manganese	3080		3.27	10.0	1	08/26/2020 14:55	WG1531368



Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	113000		1400	3000	1	08/26/2020 14:55	WG1531368

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3550		2.91	10.0	1	08/26/2020 13:18	WG1531746
Ethane	U		4.07	13.0	1	08/26/2020 13:18	WG1531746
Ethene	U		4.26	13.0	1	08/26/2020 13:18	WG1531746

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>JO</u>	11.3	50.0	1	08/23/2020 16:33	WG1531017
Benzene	0.566	<u>J</u>	0.0941	1.00	1	08/23/2020 16:33	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 16:33	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 16:33	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 16:33	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 16:33	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 16:33	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 16:33	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 16:33	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 16:33	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 16:33	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 16:33	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 16:33	WG1531017
Cyclohexane	14.6		0.188	1.00	1	08/23/2020 16:33	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 16:33	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 16:33	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 16:33	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 16:33	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 16:33	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 16:33	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 16:33	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 16:33	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 16:33	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 16:33	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 16:33	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 16:33	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 16:33	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 16:33	WG1531017
Ethylbenzene	0.331	<u>J</u>	0.137	1.00	1	08/23/2020 16:33	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 16:33	WG1531017
Isopropylbenzene	3.11		0.105	1.00	1	08/23/2020 16:33	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 16:33	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 16:33	WG1531017
Methyl Cyclohexane	25.1		0.660	1.00	1	08/23/2020 16:33	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 16:33	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 16:33	WG1531017
Methyl tert-butyl ether	U		0.101	1.00	1	08/23/2020 16:33	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 16:33	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 16:33	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 16:33	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 16:33	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 16:33	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 16:33	WG1531017

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	08/23/2020 16:33	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 16:33	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 16:33	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 16:33	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 16:33	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 16:33	WG1531017
Xylenes, Total	0.990	J	0.174	3.00	1	08/23/2020 16:33	WG1531017
(S) Toluene-d8	99.5			80.0-120		08/23/2020 16:33	WG1531017
(S) 4-Bromofluorobenzene	92.0			77.0-126		08/23/2020 16:33	WG1531017
(S) 1,2-Dichloroethane-d4	111			70.0-130		08/23/2020 16:33	WG1531017

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1820	<u>T8</u>	45.8	100	1	08/28/2020 16:57	WG1531368

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	527000		8450	20000	1	08/26/2020 18:44	WG1531767

Sample Narrative:

L1253116-04 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	14900	<u>T8</u>	75.0	250	5	08/28/2020 16:57	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	08/28/2020 18:58	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	82100	T8	20000	1	08/26/2020 18:44	WG1531767

Sample Narrative:

L1253116-04 WG1531767: 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	08/24/2020 17:00	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17000000		190000	500000	500	08/25/2020 09:53	WG1531220
Sulfate	1850000		59400	500000	100	08/25/2020 09:43	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8160		102	1000	1	08/24/2020 22:16	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	16700		45.8	100	1	08/26/2020 14:58	WG1531368
Manganese	389		3.27	10.0	1	08/26/2020 14:58	WG1531368
Sodium	8790000		28000	60000	20	08/26/2020 23:20	WG1531368



Collected date/time: 08/20/20 21:30

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	26.4		2.91	10.0	1	08/26/2020 13:26	WG1531746
Ethane	U		4.07	13.0	1	08/26/2020 13:26	WG1531746
Ethene	U		4.26	13.0	1	08/26/2020 13:26	WG1531746

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>JO</u>	11.3	50.0	1	08/23/2020 16:52	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 16:52	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 16:52	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 16:52	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 16:52	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 16:52	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 16:52	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 16:52	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 16:52	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 16:52	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 16:52	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 16:52	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 16:52	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 16:52	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 16:52	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 16:52	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 16:52	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 16:52	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 16:52	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 16:52	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 16:52	WG1531017
1,2-Dichloroethane	0.350	<u>J</u>	0.0819	1.00	1	08/23/2020 16:52	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 16:52	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 16:52	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 16:52	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 16:52	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 16:52	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 16:52	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 16:52	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 16:52	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 16:52	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 16:52	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 16:52	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 16:52	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 16:52	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 16:52	WG1531017
Methyl tert-butyl ether	0.303	<u>J</u>	0.101	1.00	1	08/23/2020 16:52	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 16:52	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 16:52	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 16:52	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 16:52	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 16:52	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 16:52	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 16:52	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 16:52	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 16:52	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 16:52	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 16:52	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 16:52	WG1531017

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	08/23/2020 16:52	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 16:52	WG1531017
(S) 4-Bromofluorobenzene	99.7			77.0-126		08/23/2020 16:52	WG1531017
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/23/2020 16:52	WG1531017

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	16900	<u>T8</u>	15.0	50.0	1	08/28/2020 16:57	WG1531368

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	832000		8450	20000	1	08/26/2020 18:51	WG1531767

Sample Narrative:

L1253116-05 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	847	<u>T8</u>	15.0	50.0	1	08/28/2020 16:57	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/28/2020 18:57	WG1534093

Sample Narrative:

L1253116-05 WG1534093: Dilution due to sulfide interference

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	55800	<u>T8</u>	20000	1	08/26/2020 18:51	WG1531767

Sample Narrative:

L1253116-05 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	1010		250	500	10	08/24/2020 17:00	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4380000		37900	100000	100	08/25/2020 01:40	WG1531220
Sulfate	182000		5940	50000	10	08/25/2020 01:08	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16200		510	5000	5	08/24/2020 23:09	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	17800		45.8	100	1	08/26/2020 15:01	WG1531368
Manganese	340		3.27	10.0	1	08/26/2020 15:01	WG1531368



Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2510000		14000	30000	10	08/26/2020 23:23	WG1531368

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1670		2.91	10.0	1	08/26/2020 13:32	WG1531746
Ethane	U		4.07	13.0	1	08/26/2020 13:32	WG1531746
Ethene	U		4.26	13.0	1	08/26/2020 13:32	WG1531746

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>J0</u>	113	500	10	08/23/2020 19:07	WG1531017
Benzene	U		0.941	10.0	10	08/23/2020 19:07	WG1531017
Bromochloromethane	U		1.28	10.0	10	08/23/2020 19:07	WG1531017
Bromodichloromethane	U		1.36	10.0	10	08/23/2020 19:07	WG1531017
Bromoform	U		1.29	10.0	10	08/23/2020 19:07	WG1531017
Bromomethane	U		6.05	50.0	10	08/23/2020 19:07	WG1531017
Carbon disulfide	U		0.962	10.0	10	08/23/2020 19:07	WG1531017
Carbon tetrachloride	U		1.28	10.0	10	08/23/2020 19:07	WG1531017
Chlorobenzene	U		1.16	10.0	10	08/23/2020 19:07	WG1531017
Chlorodibromomethane	U		1.40	10.0	10	08/23/2020 19:07	WG1531017
Chloroethane	U		1.92	50.0	10	08/23/2020 19:07	WG1531017
Chloroform	U		1.11	50.0	10	08/23/2020 19:07	WG1531017
Chloromethane	U		9.60	25.0	10	08/23/2020 19:07	WG1531017
Cyclohexane	U		1.88	10.0	10	08/23/2020 19:07	WG1531017
1,2-Dibromo-3-Chloropropane	U		2.76	50.0	10	08/23/2020 19:07	WG1531017
1,2-Dibromoethane	U		1.26	10.0	10	08/23/2020 19:07	WG1531017
1,2-Dichlorobenzene	U		1.07	10.0	10	08/23/2020 19:07	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	1.10	10.0	10	08/23/2020 19:07	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	1.20	10.0	10	08/23/2020 19:07	WG1531017
Dichlorodifluoromethane	U		3.74	50.0	10	08/23/2020 19:07	WG1531017
1,1-Dichloroethane	U		1.00	10.0	10	08/23/2020 19:07	WG1531017
1,2-Dichloroethane	U		0.819	10.0	10	08/23/2020 19:07	WG1531017
1,1-Dichloroethene	U		1.88	10.0	10	08/23/2020 19:07	WG1531017
cis-1,2-Dichloroethene	2.50	<u>J</u>	1.26	10.0	10	08/23/2020 19:07	WG1531017
trans-1,2-Dichloroethene	U		1.49	10.0	10	08/23/2020 19:07	WG1531017
1,2-Dichloropropane	U		1.49	10.0	10	08/23/2020 19:07	WG1531017
cis-1,3-Dichloropropene	U		1.11	10.0	10	08/23/2020 19:07	WG1531017
trans-1,3-Dichloropropene	U		1.18	10.0	10	08/23/2020 19:07	WG1531017
Ethylbenzene	U		1.37	10.0	10	08/23/2020 19:07	WG1531017
2-Hexanone	U		7.87	100	10	08/23/2020 19:07	WG1531017
Isopropylbenzene	U		1.05	10.0	10	08/23/2020 19:07	WG1531017
2-Butanone (MEK)	U		11.9	100	10	08/23/2020 19:07	WG1531017
Methyl Acetate	U		12.9	200	10	08/23/2020 19:07	WG1531017
Methyl Cyclohexane	U		6.60	10.0	10	08/23/2020 19:07	WG1531017
Methylene Chloride	U		4.30	50.0	10	08/23/2020 19:07	WG1531017
4-Methyl-2-pentanone (MIBK)	U		4.78	100	10	08/23/2020 19:07	WG1531017
Methyl tert-butyl ether	32.0		1.01	10.0	10	08/23/2020 19:07	WG1531017
Styrene	U		1.18	10.0	10	08/23/2020 19:07	WG1531017
1,1,2,2-Tetrachloroethane	U		1.33	10.0	10	08/23/2020 19:07	WG1531017
Tetrachloroethene	U		3.00	10.0	10	08/23/2020 19:07	WG1531017
Toluene	U		2.78	10.0	10	08/23/2020 19:07	WG1531017
1,2,3-Trichlorobenzene	U		2.30	10.0	10	08/23/2020 19:07	WG1531017
1,2,4-Trichlorobenzene	U		4.81	10.0	10	08/23/2020 19:07	WG1531017

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		1.49	10.0	10	08/23/2020 19:07	WG1531017
1,1,2-Trichloroethane	U		1.58	10.0	10	08/23/2020 19:07	WG1531017
Trichloroethene	U		1.90	10.0	10	08/23/2020 19:07	WG1531017
Trichlorofluoromethane	U		1.60	50.0	10	08/23/2020 19:07	WG1531017
1,1,2-Trichlorotrifluoroethane	U		1.80	10.0	10	08/23/2020 19:07	WG1531017
Vinyl chloride	U		2.34	10.0	10	08/23/2020 19:07	WG1531017
Xylenes, Total	U		1.74	30.0	10	08/23/2020 19:07	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 19:07	WG1531017
(S) 4-Bromofluorobenzene	98.0			77.0-126		08/23/2020 19:07	WG1531017
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/23/2020 19:07	WG1531017

Sample Narrative:

L1253116-05 WG1531017: Dilution due to foam.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	21.6	J T8	15.0	50.0	1	08/28/2020 16:58	WG1531368

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	08/26/2020 19:00	WG1531767

Sample Narrative:

L1253116-06 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	145	T8	15.0	50.0	1	08/28/2020 16:58	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	08/28/2020 18:59	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	23000	T8	20000		1	08/26/2020 19:00	WG1531767

Sample Narrative:

L1253116-06 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	08/24/2020 17:01	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2490000		37900	100000	100	08/25/2020 02:02	WG1531220
Sulfate	304000		5940	50000	10	08/25/2020 01:51	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	31300		204	2000	2	08/24/2020 23:27	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	167		45.8	100	1	08/26/2020 15:04	WG1531368
Manganese	57.7		3.27	10.0	1	08/26/2020 15:04	WG1531368
Sodium	1410000		7000	15000	5	08/26/2020 23:26	WG1531368



Collected date/time: 08/19/20 20:10

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	361		2.91	10.0	1	08/25/2020 14:34	WG1531747
Ethane	U		4.07	13.0	1	08/25/2020 14:34	WG1531747
Ethene	U		4.26	13.0	1	08/25/2020 14:34	WG1531747

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>JO</u>	11.3	50.0	1	08/23/2020 17:11	WG1531017
Benzene	5.03		0.0941	1.00	1	08/23/2020 17:11	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 17:11	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 17:11	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 17:11	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 17:11	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 17:11	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 17:11	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 17:11	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 17:11	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 17:11	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 17:11	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 17:11	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 17:11	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 17:11	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 17:11	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 17:11	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 17:11	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 17:11	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 17:11	WG1531017
1,1-Dichloroethane	0.172	<u>U</u>	0.100	1.00	1	08/23/2020 17:11	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 17:11	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 17:11	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 17:11	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 17:11	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 17:11	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 17:11	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 17:11	WG1531017
Ethylbenzene	0.750	<u>U</u>	0.137	1.00	1	08/23/2020 17:11	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 17:11	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 17:11	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 17:11	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 17:11	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 17:11	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 17:11	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 17:11	WG1531017
Methyl tert-butyl ether	16.5		0.101	1.00	1	08/23/2020 17:11	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 17:11	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 17:11	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 17:11	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 17:11	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 17:11	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 17:11	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 17:11	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 17:11	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 17:11	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 17:11	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 17:11	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 17:11	WG1531017

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	1.02	J	0.174	3.00	1	08/23/2020 17:11	WG1531017
(S) Toluene-d8	107			80.0-120		08/23/2020 17:11	WG1531017
(S) 4-Bromofluorobenzene	98.6			77.0-126		08/23/2020 17:11	WG1531017
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/23/2020 17:11	WG1531017

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	242	T8	15.0	50.0	1	08/28/2020 16:58	WG1531368

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	638000		8450	20000	1	08/26/2020 19:08	WG1531767

Sample Narrative:

L1253116-07 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	160	T8	15.0	50.0	1	08/28/2020 16:58	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/28/2020 19:01	WG1534093

Sample Narrative:

L1253116-07 WG1534093: Dilution due to sulfide interference

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	47900	T8	20000	1	08/26/2020 19:08	WG1531767

Sample Narrative:

L1253116-07 WG1531767: Endpoint pH 4.5

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	6600		2500	5000	100	08/24/2020 17:01	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4160000		37900	100000	100	08/25/2020 02:24	WG1531220
Sulfate	288000		5940	50000	10	08/25/2020 02:13	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	17800		204	2000	2	08/24/2020 23:44	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	402		45.8	100	1	08/26/2020 15:07	WG1531368
Manganese	99.5		3.27	10.0	1	08/26/2020 15:07	WG1531368



Collected date/time: 08/19/20 19:30

L1253116

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2280000		7000	15000	5	08/26/2020 23:29	WG1531368

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	360		2.91	10.0	1	08/25/2020 14:37	WG1531747
Ethane	U		4.07	13.0	1	08/25/2020 14:37	WG1531747
Ethene	U		4.26	13.0	1	08/25/2020 14:37	WG1531747

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	J0	11.3	50.0	1	08/23/2020 17:31	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 17:31	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 17:31	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 17:31	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 17:31	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 17:31	WG1531017
Carbon disulfide	0.204	J	0.0962	1.00	1	08/23/2020 17:31	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 17:31	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 17:31	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 17:31	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 17:31	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 17:31	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 17:31	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 17:31	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 17:31	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 17:31	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 17:31	WG1531017
1,3-Dichlorobenzene	U	J4	0.110	1.00	1	08/23/2020 17:31	WG1531017
1,4-Dichlorobenzene	U	J4	0.120	1.00	1	08/23/2020 17:31	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 17:31	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 17:31	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 17:31	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 17:31	WG1531017
cis-1,2-Dichloroethene	0.398	J	0.126	1.00	1	08/23/2020 17:31	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 17:31	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 17:31	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 17:31	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 17:31	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 17:31	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 17:31	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 17:31	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 17:31	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 17:31	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 17:31	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 17:31	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 17:31	WG1531017
Methyl tert-butyl ether	64.4		0.101	1.00	1	08/23/2020 17:31	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 17:31	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 17:31	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 17:31	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 17:31	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 17:31	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 17:31	WG1531017

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	08/23/2020 17:31	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 17:31	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 17:31	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 17:31	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 17:31	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 17:31	WG1531017
Xylenes, Total	U		0.174	3.00	1	08/23/2020 17:31	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 17:31	WG1531017
(S) 4-Bromofluorobenzene	99.8			77.0-126		08/23/2020 17:31	WG1531017
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/23/2020 17:31	WG1531017

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	<u>T8</u>	15.0	50.0	1	08/28/2020 16:58	WG1531368

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	16200	<u>J</u>	8450	20000	1	08/26/2020 19:15	WG1531767

Sample Narrative:

L1253116-08 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	25.0	<u>J T8</u>	15.0	50.0	1	08/28/2020 16:58	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	352		50.0	100	1	08/28/2020 19:02	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	08/26/2020 19:15	WG1531767

Sample Narrative:

L1253116-08 WG1531767: 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	08/24/2020 17:01	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8730		379	1000	1	08/25/2020 02:35	WG1531220
Sulfate	2570	<u>J</u>	594	5000	1	08/25/2020 02:35	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	288	<u>B J</u>	102	1000	1	08/24/2020 23:57	WG1530216

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		45.8	100	1	08/26/2020 15:16	WG1531368
Manganese	U		3.27	10.0	1	08/26/2020 15:16	WG1531368
Sodium	6490		1400	3000	1	08/26/2020 15:16	WG1531368



Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6.24	J	2.91	10.0	1	08/25/2020 14:39	WG1531747
Ethane	U		4.07	13.0	1	08/25/2020 14:39	WG1531747
Ethene	U		4.26	13.0	1	08/25/2020 14:39	WG1531747

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	U	JO	11.3	50.0	1	08/23/2020 14:18	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 14:18	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 14:18	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 14:18	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 14:18	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 14:18	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 14:18	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 14:18	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 14:18	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 14:18	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 14:18	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 14:18	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 14:18	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 14:18	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 14:18	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 14:18	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 14:18	WG1531017
1,3-Dichlorobenzene	U	J4	0.110	1.00	1	08/23/2020 14:18	WG1531017
1,4-Dichlorobenzene	U	J4	0.120	1.00	1	08/23/2020 14:18	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 14:18	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 14:18	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 14:18	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 14:18	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 14:18	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 14:18	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 14:18	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 14:18	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 14:18	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 14:18	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 14:18	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 14:18	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 14:18	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 14:18	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 14:18	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 14:18	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 14:18	WG1531017
Methyl tert-butyl ether	U		0.101	1.00	1	08/23/2020 14:18	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 14:18	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 14:18	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 14:18	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 14:18	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 14:18	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 14:18	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 14:18	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 14:18	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 14:18	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 14:18	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 14:18	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 14:18	WG1531017

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	08/23/2020 14:18	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 14:18	WG1531017
(S) 4-Bromofluorobenzene	102			77.0-126		08/23/2020 14:18	WG1531017
(S) 1,2-Dichloroethane-d4	111			70.0-130		08/23/2020 14:18	WG1531017

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	178	<u>T8</u>	45.8	100	1	08/28/2020 16:59	WG1531368

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	945000		8450	20000	1	08/26/2020 19:34	WG1531767

Sample Narrative:

L1253116-09 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	10400	<u>T8</u>	375	1250	25	08/28/2020 16:59	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/28/2020 19:03	WG1534093

Sample Narrative:

L1253116-09 WG1534093: Dilution due to sulfide interference

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	55300	<u>T8</u>	20000	1	08/26/2020 19:34	WG1531767

Sample Narrative:

L1253116-09 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	93700		2500	5000	100	08/24/2020 17:02	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5060000		37900	100000	100	08/25/2020 02:56	WG1531220
Sulfate	310000		5940	50000	10	08/25/2020 02:45	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18700		510	5000	5	08/25/2020 16:47	WG1531428

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	10600		45.8	100	1	08/26/2020 15:18	WG1531368
Manganese	156		3.27	10.0	1	08/26/2020 15:18	WG1531368



Collected date/time: 08/19/20 21:10

L1253116

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sodium	2710000		14000	30000	10	08/26/2020 23:32	WG1531368

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1530		2.91	10.0	1	08/25/2020 14:42	WG1531747
Ethane	U		4.07	13.0	1	08/25/2020 14:42	WG1531747
Ethene	19.9		4.26	13.0	1	08/25/2020 14:42	WG1531747

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>JO</u>	56.5	250	5	08/23/2020 19:27	WG1531017
Benzene	3.12	<u>J</u>	0.471	5.00	5	08/23/2020 19:27	WG1531017
Bromochloromethane	U		0.640	5.00	5	08/23/2020 19:27	WG1531017
Bromodichloromethane	U		0.680	5.00	5	08/23/2020 19:27	WG1531017
Bromoform	U		0.645	5.00	5	08/23/2020 19:27	WG1531017
Bromomethane	U		3.03	25.0	5	08/23/2020 19:27	WG1531017
Carbon disulfide	0.852	<u>J</u>	0.481	5.00	5	08/23/2020 19:27	WG1531017
Carbon tetrachloride	U		0.640	5.00	5	08/23/2020 19:27	WG1531017
Chlorobenzene	U		0.580	5.00	5	08/23/2020 19:27	WG1531017
Chlorodibromomethane	U		0.700	5.00	5	08/23/2020 19:27	WG1531017
Chloroethane	U		0.960	25.0	5	08/23/2020 19:27	WG1531017
Chloroform	U		0.555	25.0	5	08/23/2020 19:27	WG1531017
Chloromethane	U		4.80	12.5	5	08/23/2020 19:27	WG1531017
Cyclohexane	U		0.940	5.00	5	08/23/2020 19:27	WG1531017
1,2-Dibromo-3-Chloropropane	U		1.38	25.0	5	08/23/2020 19:27	WG1531017
1,2-Dibromoethane	U		0.630	5.00	5	08/23/2020 19:27	WG1531017
1,2-Dichlorobenzene	U		0.535	5.00	5	08/23/2020 19:27	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.550	5.00	5	08/23/2020 19:27	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.600	5.00	5	08/23/2020 19:27	WG1531017
Dichlorodifluoromethane	U		1.87	25.0	5	08/23/2020 19:27	WG1531017
1,1-Dichloroethane	U		0.500	5.00	5	08/23/2020 19:27	WG1531017
1,2-Dichloroethane	U		0.409	5.00	5	08/23/2020 19:27	WG1531017
1,1-Dichloroethene	U		0.940	5.00	5	08/23/2020 19:27	WG1531017
cis-1,2-Dichloroethene	0.855	<u>J</u>	0.630	5.00	5	08/23/2020 19:27	WG1531017
trans-1,2-Dichloroethene	1.52	<u>J</u>	0.745	5.00	5	08/23/2020 19:27	WG1531017
1,2-Dichloropropane	U		0.745	5.00	5	08/23/2020 19:27	WG1531017
cis-1,3-Dichloropropene	U		0.555	5.00	5	08/23/2020 19:27	WG1531017
trans-1,3-Dichloropropene	U		0.590	5.00	5	08/23/2020 19:27	WG1531017
Ethylbenzene	U		0.685	5.00	5	08/23/2020 19:27	WG1531017
2-Hexanone	U		3.94	50.0	5	08/23/2020 19:27	WG1531017
Isopropylbenzene	U		0.525	5.00	5	08/23/2020 19:27	WG1531017
2-Butanone (MEK)	U		5.95	50.0	5	08/23/2020 19:27	WG1531017
Methyl Acetate	U		6.45	100	5	08/23/2020 19:27	WG1531017
Methyl Cyclohexane	U		3.30	5.00	5	08/23/2020 19:27	WG1531017
Methylene Chloride	U		2.15	25.0	5	08/23/2020 19:27	WG1531017
4-Methyl-2-pentanone (MIBK)	U		2.39	50.0	5	08/23/2020 19:27	WG1531017
Methyl tert-butyl ether	26.0		0.505	5.00	5	08/23/2020 19:27	WG1531017
Styrene	U		0.590	5.00	5	08/23/2020 19:27	WG1531017
1,1,2,2-Tetrachloroethane	U		0.665	5.00	5	08/23/2020 19:27	WG1531017
Tetrachloroethene	U		1.50	5.00	5	08/23/2020 19:27	WG1531017
Toluene	U		1.39	5.00	5	08/23/2020 19:27	WG1531017
1,2,3-Trichlorobenzene	U		1.15	5.00	5	08/23/2020 19:27	WG1531017
1,2,4-Trichlorobenzene	U		2.41	5.00	5	08/23/2020 19:27	WG1531017

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/19/20 21:10

L1253116

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		0.745	5.00	5	08/23/2020 19:27	WG1531017
1,1,2-Trichloroethane	U		0.790	5.00	5	08/23/2020 19:27	WG1531017
Trichloroethene	U		0.950	5.00	5	08/23/2020 19:27	WG1531017
Trichlorofluoromethane	U		0.800	25.0	5	08/23/2020 19:27	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.900	5.00	5	08/23/2020 19:27	WG1531017
Vinyl chloride	33.6	<u>JO</u>	1.17	5.00	5	08/23/2020 19:27	WG1531017
Xylenes, Total	1.12	<u>J</u>	0.870	15.0	5	08/23/2020 19:27	WG1531017
(S) Toluene-d8	108			80.0-120		08/23/2020 19:27	WG1531017
(S) 4-Bromofluorobenzene	100			77.0-126		08/23/2020 19:27	WG1531017
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/23/2020 19:27	WG1531017

Sample Narrative:

L1253116-09 WG1531017: Dilution due to foam.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1010	<u>T8</u>	15.0	50.0	1	08/28/2020 17:01	WG1531368

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	500000		8450	20000	1	08/26/2020 19:43	WG1531767

Sample Narrative:

L1253116-10 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	336	<u>T8</u>	15.0	50.0	1	08/28/2020 17:01	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		250	500	5	08/28/2020 22:23	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	34800	<u>T8</u>	20000		1	08/26/2020 19:43	WG1531767

Sample Narrative:

L1253116-10 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	125000		2500	5000	100	08/24/2020 17:02	WG1531515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2360000		37900	100000	100	08/25/2020 03:18	WG1531220
Sulfate	185000		5940	50000	10	08/25/2020 03:07	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	31500		204	2000	2	08/25/2020 17:04	WG1531428

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1340		45.8	100	1	08/26/2020 15:21	WG1531368
Manganese	31.4		3.27	10.0	1	08/26/2020 15:21	WG1531368
Sodium	1370000		7000	15000	5	08/26/2020 23:34	WG1531368



Collected date/time: 08/19/20 19:15

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2030		2.91	10.0	1	08/25/2020 14:51	WG1531747
Ethane	7.93	J	4.07	13.0	1	08/25/2020 14:51	WG1531747
Ethene	23.2		4.26	13.0	1	08/25/2020 14:51	WG1531747

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	JO	11.3	50.0	1	08/23/2020 17:50	WG1531017
Benzene	6.46		0.0941	1.00	1	08/23/2020 17:50	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 17:50	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 17:50	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 17:50	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 17:50	WG1531017
Carbon disulfide	0.360	J	0.0962	1.00	1	08/23/2020 17:50	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 17:50	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 17:50	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 17:50	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 17:50	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 17:50	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 17:50	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 17:50	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 17:50	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 17:50	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 17:50	WG1531017
1,3-Dichlorobenzene	U	J4	0.110	1.00	1	08/23/2020 17:50	WG1531017
1,4-Dichlorobenzene	U	J4	0.120	1.00	1	08/23/2020 17:50	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 17:50	WG1531017
1,1-Dichloroethane	0.218	J	0.100	1.00	1	08/23/2020 17:50	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 17:50	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 17:50	WG1531017
cis-1,2-Dichloroethene	1.45		0.126	1.00	1	08/23/2020 17:50	WG1531017
trans-1,2-Dichloroethene	1.57		0.149	1.00	1	08/23/2020 17:50	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 17:50	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 17:50	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 17:50	WG1531017
Ethylbenzene	1.38		0.137	1.00	1	08/23/2020 17:50	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 17:50	WG1531017
Isopropylbenzene	0.555	J	0.105	1.00	1	08/23/2020 17:50	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 17:50	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 17:50	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 17:50	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 17:50	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 17:50	WG1531017
Methyl tert-butyl ether	97.4		0.101	1.00	1	08/23/2020 17:50	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 17:50	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 17:50	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 17:50	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 17:50	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 17:50	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 17:50	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 17:50	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 17:50	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 17:50	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 17:50	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 17:50	WG1531017
Vinyl chloride	39.0	JO	0.234	1.00	1	08/23/2020 17:50	WG1531017

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	1.02	J	0.174	3.00	1	08/23/2020 17:50	WG1531017
(S) Toluene-d8	109			80.0-120		08/23/2020 17:50	WG1531017
(S) 4-Bromofluorobenzene	97.9			77.0-126		08/23/2020 17:50	WG1531017
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/23/2020 17:50	WG1531017

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	1130	T8	15.0	50.0	1	08/28/2020 17:02	WG1531368

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	256000		8450	20000	1	08/26/2020 19:50	WG1531767

Sample Narrative:

L1253116-11 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	232	T8	15.0	50.0	1	08/28/2020 17:02	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	107		50.0	100	1	08/28/2020 22:25	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	39600	T8	20000		1	08/26/2020 19:50	WG1531767

Sample Narrative:

L1253116-11 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	31.0	J	25.0	50.0	1	08/26/2020 18:14	WG1532260

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	950000		37900	100000	100	08/25/2020 04:01	WG1531220
Sulfate	60500		5940	50000	10	08/25/2020 03:51	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18700		204	2000	2	08/25/2020 17:58	WG1531428

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1360		45.8	100	1	08/26/2020 15:24	WG1531368
Manganese	172		3.27	10.0	1	08/26/2020 15:24	WG1531368
Sodium	574000		1400	3000	1	08/26/2020 15:24	WG1531368



Collected date/time: 08/19/20 23:20

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6710		2.91	10.0	1	08/25/2020 15:00	WG1531747
Ethane	U		4.07	13.0	1	08/25/2020 15:00	WG1531747
Ethene	U		4.26	13.0	1	08/25/2020 15:00	WG1531747

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>J0</u>	11.3	50.0	1	08/23/2020 18:09	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 18:09	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 18:09	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 18:09	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 18:09	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 18:09	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 18:09	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 18:09	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 18:09	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 18:09	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 18:09	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 18:09	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 18:09	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 18:09	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 18:09	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 18:09	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 18:09	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 18:09	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 18:09	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 18:09	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 18:09	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 18:09	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 18:09	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 18:09	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 18:09	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 18:09	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 18:09	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 18:09	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 18:09	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 18:09	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 18:09	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 18:09	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 18:09	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 18:09	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 18:09	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 18:09	WG1531017
Methyl tert-butyl ether	29.5		0.101	1.00	1	08/23/2020 18:09	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 18:09	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 18:09	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 18:09	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 18:09	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 18:09	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 18:09	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 18:09	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 18:09	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 18:09	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 18:09	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 18:09	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 18:09	WG1531017

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/19/20 23:20

L1253116

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	08/23/2020 18:09	WG1531017
(S) Toluene-d8	107			80.0-120		08/23/2020 18:09	WG1531017
(S) 4-Bromofluorobenzene	98.1			77.0-126		08/23/2020 18:09	WG1531017
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/23/2020 18:09	WG1531017

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	6970	T8	15.0	50.0	1	08/28/2020 17:03	WG1531368

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	678000		8450	20000	1	08/26/2020 19:58	WG1531767

Sample Narrative:

L1253116-12 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1500	T8	15.0	50.0	1	08/28/2020 17:03	WG1530451

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1000	2000	20	08/28/2020 22:27	WG1534093

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	42500	T8	20000		1	08/26/2020 19:58	WG1531767

Sample Narrative:

L1253116-12 WG1531767: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	4160		250	500	10	08/26/2020 18:14	WG1532260

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2950000		37900	100000	100	08/25/2020 04:23	WG1531220
Sulfate	131000		5940	50000	10	08/25/2020 04:12	WG1531220

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	26900		510	5000	5	08/25/2020 19:53	WG1531428

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	8480		45.8	100	1	08/26/2020 15:27	WG1531368
Manganese	131		3.27	10.0	1	08/26/2020 15:27	WG1531368
Sodium	1930000		7000	15000	5	08/26/2020 23:37	WG1531368



Collected date/time: 08/19/20 22:10

L1253116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3340		2.91	10.0	1	08/25/2020 15:23	WG1531747
Ethane	378		4.07	13.0	1	08/25/2020 15:23	WG1531747
Ethene	176		4.26	13.0	1	08/25/2020 15:23	WG1531747

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>JO</u>	11.3	50.0	1	08/23/2020 18:29	WG1531017
Benzene	5.40		0.0941	1.00	1	08/23/2020 18:29	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 18:29	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 18:29	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 18:29	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 18:29	WG1531017
Carbon disulfide	0.615	<u>J</u>	0.0962	1.00	1	08/23/2020 18:29	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 18:29	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 18:29	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 18:29	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 18:29	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 18:29	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 18:29	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 18:29	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 18:29	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 18:29	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 18:29	WG1531017
1,3-Dichlorobenzene	U	<u>J4</u>	0.110	1.00	1	08/23/2020 18:29	WG1531017
1,4-Dichlorobenzene	U	<u>J4</u>	0.120	1.00	1	08/23/2020 18:29	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 18:29	WG1531017
1,1-Dichloroethane	0.606	<u>J</u>	0.100	1.00	1	08/23/2020 18:29	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 18:29	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 18:29	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 18:29	WG1531017
trans-1,2-Dichloroethene	10.8		0.149	1.00	1	08/23/2020 18:29	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 18:29	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 18:29	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 18:29	WG1531017
Ethylbenzene	6.29		0.137	1.00	1	08/23/2020 18:29	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 18:29	WG1531017
Isopropylbenzene	1.08		0.105	1.00	1	08/23/2020 18:29	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 18:29	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 18:29	WG1531017
Methyl Cyclohexane	3.18		0.660	1.00	1	08/23/2020 18:29	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 18:29	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 18:29	WG1531017
Methyl tert-butyl ether	181		0.101	1.00	1	08/23/2020 18:29	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 18:29	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 18:29	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 18:29	WG1531017
Toluene	0.465	<u>J</u>	0.278	1.00	1	08/23/2020 18:29	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 18:29	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 18:29	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 18:29	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 18:29	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 18:29	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 18:29	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 18:29	WG1531017
Vinyl chloride	4.74	<u>JO</u>	0.234	1.00	1	08/23/2020 18:29	WG1531017

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	4.86		0.174	3.00	1	08/23/2020 18:29	WG1531017
(S) Toluene-d8	109			80.0-120		08/23/2020 18:29	WG1531017
(S) 4-Bromofluorobenzene	99.9			77.0-126		08/23/2020 18:29	WG1531017
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/23/2020 18:29	WG1531017

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 08/19/20 00:00

L1253116

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	J0	11.3	50.0	1	08/23/2020 14:37	WG1531017
Benzene	U		0.0941	1.00	1	08/23/2020 14:37	WG1531017
Bromochloromethane	U		0.128	1.00	1	08/23/2020 14:37	WG1531017
Bromodichloromethane	U		0.136	1.00	1	08/23/2020 14:37	WG1531017
Bromoform	U		0.129	1.00	1	08/23/2020 14:37	WG1531017
Bromomethane	U		0.605	5.00	1	08/23/2020 14:37	WG1531017
Carbon disulfide	U		0.0962	1.00	1	08/23/2020 14:37	WG1531017
Carbon tetrachloride	U		0.128	1.00	1	08/23/2020 14:37	WG1531017
Chlorobenzene	U		0.116	1.00	1	08/23/2020 14:37	WG1531017
Chlorodibromomethane	U		0.140	1.00	1	08/23/2020 14:37	WG1531017
Chloroethane	U		0.192	5.00	1	08/23/2020 14:37	WG1531017
Chloroform	U		0.111	5.00	1	08/23/2020 14:37	WG1531017
Chloromethane	U		0.960	2.50	1	08/23/2020 14:37	WG1531017
Cyclohexane	U		0.188	1.00	1	08/23/2020 14:37	WG1531017
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/23/2020 14:37	WG1531017
1,2-Dibromoethane	U		0.126	1.00	1	08/23/2020 14:37	WG1531017
1,2-Dichlorobenzene	U		0.107	1.00	1	08/23/2020 14:37	WG1531017
1,3-Dichlorobenzene	U	J4	0.110	1.00	1	08/23/2020 14:37	WG1531017
1,4-Dichlorobenzene	U	J4	0.120	1.00	1	08/23/2020 14:37	WG1531017
Dichlorodifluoromethane	U		0.374	5.00	1	08/23/2020 14:37	WG1531017
1,1-Dichloroethane	U		0.100	1.00	1	08/23/2020 14:37	WG1531017
1,2-Dichloroethane	U		0.0819	1.00	1	08/23/2020 14:37	WG1531017
1,1-Dichloroethene	U		0.188	1.00	1	08/23/2020 14:37	WG1531017
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/23/2020 14:37	WG1531017
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/23/2020 14:37	WG1531017
1,2-Dichloropropane	U		0.149	1.00	1	08/23/2020 14:37	WG1531017
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/23/2020 14:37	WG1531017
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/23/2020 14:37	WG1531017
Ethylbenzene	U		0.137	1.00	1	08/23/2020 14:37	WG1531017
2-Hexanone	U		0.787	10.0	1	08/23/2020 14:37	WG1531017
Isopropylbenzene	U		0.105	1.00	1	08/23/2020 14:37	WG1531017
2-Butanone (MEK)	U		1.19	10.0	1	08/23/2020 14:37	WG1531017
Methyl Acetate	U		1.29	20.0	1	08/23/2020 14:37	WG1531017
Methyl Cyclohexane	U		0.660	1.00	1	08/23/2020 14:37	WG1531017
Methylene Chloride	U		0.430	5.00	1	08/23/2020 14:37	WG1531017
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/23/2020 14:37	WG1531017
Methyl tert-butyl ether	U		0.101	1.00	1	08/23/2020 14:37	WG1531017
Styrene	U		0.118	1.00	1	08/23/2020 14:37	WG1531017
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/23/2020 14:37	WG1531017
Tetrachloroethene	U		0.300	1.00	1	08/23/2020 14:37	WG1531017
Toluene	U		0.278	1.00	1	08/23/2020 14:37	WG1531017
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/23/2020 14:37	WG1531017
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/23/2020 14:37	WG1531017
1,1,1-Trichloroethane	U		0.149	1.00	1	08/23/2020 14:37	WG1531017
1,1,2-Trichloroethane	U		0.158	1.00	1	08/23/2020 14:37	WG1531017
Trichloroethene	U		0.190	1.00	1	08/23/2020 14:37	WG1531017
Trichlorofluoromethane	U		0.160	5.00	1	08/23/2020 14:37	WG1531017
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/23/2020 14:37	WG1531017
Vinyl chloride	U		0.234	1.00	1	08/23/2020 14:37	WG1531017
Xylenes, Total	U		0.174	3.00	1	08/23/2020 14:37	WG1531017
(S) Toluene-d8	110			80.0-120		08/23/2020 14:37	WG1531017
(S) 4-Bromofluorobenzene	98.4			77.0-126		08/23/2020 14:37	WG1531017
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/23/2020 14:37	WG1531017

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3564310-1 08/26/20 17:50

	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

L1253116-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253116-01 08/26/20 18:13 • (DUP) R3564310-3 08/26/20 18:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	397000	397000	1	0.121		20

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

L1254488-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1254488-01 08/26/20 21:22 • (DUP) R3564310-6 08/26/20 21:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	30600	30500	1	0.318		20

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

Laboratory Control Sample (LCS)

(LCS) R3564310-5 08/26/20 19:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	99500	99.5	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3565021-1 08/28/20 16:42

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1253036-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1253036-08 08/28/20 16:44 • (DUP) R3565021-5 08/28/20 16:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	45600	43500	25	4.63		20

L1253116-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1253116-11 08/28/20 17:02 • (DUP) R3565021-6 08/28/20 17:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	232	237	1	2.13		20

Laboratory Control Sample (LCS)

(LCS) R3565021-2 08/28/20 16:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	991	99.1	85.0-115	

L1251294-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251294-02 08/28/20 16:43 • (MS) R3565021-3 08/28/20 16:44 • (MSD) R3565021-4 08/28/20 16:44

	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	U	916	943	91.6	94.3	1	80.0-120			2.90	20



Method Blank (MB)

(MB) R3565065-1 08/28/20 18:36

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

L1252988-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252988-01 08/28/20 18:41 • (DUP) R3565065-3 08/28/20 18:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	427	428	1	0.234		20

L1253116-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1253116-11 08/28/20 22:25 • (DUP) R3565073-1 08/28/20 22:26

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	107	108	1	0.930		20

Laboratory Control Sample (LCS)

(LCS) R3565065-2 08/28/20 18:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	4000	2480	99.2	90.0-110	

L1253116-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253116-01 08/28/20 18:47 • (MS) R3565065-4 08/28/20 18:52 • (MSD) R3565065-5 08/28/20 18:53

	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	U	2270	2220	90.8	88.8	1	90.0-110		J6	2.23	20

L1253301-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1253301-01 08/28/20 22:28 • (MS) R3565073-2 08/28/20 22:30

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	1260	1260	0.000	1	90.0-110	J6

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3564310-2 08/26/20 17:50

	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

L1253116-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253116-01 08/26/20 18:13 • (DUP) R3564310-4 08/26/20 18:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	75400	78700	1	4.25		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1254488-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1254488-01 08/26/20 21:22 • (DUP) R3564310-7 08/26/20 21:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	38000	29900	1	23.8	P1	20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

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



Method Blank (MB)

(MB) R3563052-1 08/24/20 11:55

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1252557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-01 08/24/20 11:58 • (DUP) R3563052-3 08/24/20 11:58

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

L1252580-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252580-01 08/24/20 12:02 • (DUP) R3563052-6 08/24/20 12:02

	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) R3563052-2 08/24/20 11:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	464	92.8	85.0-115	

L1252557-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252557-03 08/24/20 11:59 • (MS) R3563052-4 08/24/20 11:59 • (MSD) R3563052-5 08/24/20 12:00

	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	1000	U	851	840	85.1	84.0	1	80.0-120			1.30	20



Method Blank (MB)

(MB) R3563264-1 08/24/20 16:52

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1252557-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1252557-10 08/24/20 16:54 • (DUP) R3563264-3 08/24/20 16:55

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

L1253053-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1253053-05 08/24/20 16:58 • (DUP) R3563264-6 08/24/20 16:58

	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) R3563264-2 08/24/20 16:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	502	100	85.0-115	

L1253053-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253053-02 08/24/20 16:56 • (MS) R3563264-4 08/24/20 16:56 • (MSD) R3563264-5 08/24/20 16:56

	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	1000	1360	1840	1910	47.9	54.8	1	80.0-120	J6	J6	3.68	20



Method Blank (MB)

(MB) R3564154-1 08/26/20 18:13

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

L1253347-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1253347-02 08/26/20 18:16 • (DUP) R3564154-5 08/26/20 18:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	29.0	35.0	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3564154-2 08/26/20 18:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	566	113	85.0-115	

L1253116-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253116-11 08/26/20 18:14 • (MS) R3564154-3 08/26/20 18:14 • (MSD) R3564154-4 08/26/20 18:14

	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	1000	31.0	847	833	81.6	80.2	1	80.0-120			1.67	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3563456-1 08/24/20 20:07

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1252939-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1252939-01 08/24/20 21:52 • (DUP) R3563456-3 08/24/20 22:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	1960	1970	1	0.697		15
Sulfate	3750	3870	1	0.000		15

L1253556-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253556-01 08/25/20 04:34 • (DUP) R3563456-6 08/25/20 04:45

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	62200	61700	1	0.672		15
Sulfate	33600	33500	1	0.260		15

Laboratory Control Sample (LCS)

(LCS) R3563456-2 08/24/20 20:18

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39900	99.7	80.0-120	
Sulfate	40000	40100	100	80.0-120	

L1252939-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252939-03 08/24/20 22:25 • (MS) R3563456-4 08/24/20 22:36 • (MSD) R3563456-5 08/24/20 22:47

	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	%	%		%			%	%
Chloride	50000	U	53200	51600	106	103	1	80.0-120			3.06	15
Sulfate	50000	U	52900	51800	106	104	1	80.0-120			2.17	15



[L1253116-01,02,03,04,05,06,07,08,09,10,11,12](#)

L1253556-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1253556-01 08/25/20 04:34 • (MS) R3563456-7 08/25/20 04:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	62200	111000	97.6	1	80.0-120	E
Sulfate	50000	33600	85100	103	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3563403-1 08/24/20 14:20

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	195	⬇	102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1253050-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1253050-24 08/24/20 16:29 • (DUP) R3563403-3 08/24/20 16:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	59700	60900	5	2.06		20

L1253116-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253116-01 08/24/20 20:01 • (DUP) R3563403-6 08/24/20 20:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	8900	9250	1	3.90		20

Laboratory Control Sample (LCS)

(LCS) R3563403-2 08/24/20 14:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	75300	100	85.0-115	

L1253054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253054-01 08/24/20 18:53 • (MS) R3563403-4 08/24/20 19:11 • (MSD) R3563403-5 08/24/20 19:29

	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	2290	50900	52400	97.3	100	1	80.0-120			2.79	20

L1253116-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253116-04 08/24/20 22:16 • (MS) R3563403-7 08/24/20 22:34 • (MSD) R3563403-8 08/24/20 22:52

	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	8160	57300	61400	98.3	106	1	80.0-120			6.77	20



Method Blank (MB)

(MB) R3563839-1 08/25/20 15:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	359	⬇	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1253219-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1253219-04 08/25/20 20:42 • (DUP) R3563839-7 08/25/20 20:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	967	942	1	2.65	⬇	20

L1253219-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1253219-12 08/25/20 23:46 • (DUP) R3563839-8 08/26/20 00:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1310	1330	1	1.44		20

Laboratory Control Sample (LCS)

(LCS) R3563839-2 08/25/20 16:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	75600	101	85.0-115	

L1253116-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253116-10 08/25/20 17:04 • (MS) R3563839-3 08/25/20 17:23 • (MSD) R3563839-4 08/25/20 17:42

	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	31500	130000	127000	98.4	95.4	2	80.0-120			2.34	20

L1253116-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253116-11 08/25/20 17:58 • (MS) R3563839-5 08/25/20 18:16 • (MSD) R3563839-6 08/25/20 18:34

	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	18700	115000	117000	96.6	97.9	2	80.0-120			1.12	20



Method Blank (MB)

(MB) R3564077-1 08/26/20 14:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		45.8	100
Manganese	U		3.27	10.0
Sodium	U		1400	3000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3564077-2 08/26/20 14:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9260	92.6	80.0-120	
Manganese	1000	967	96.7	80.0-120	
Sodium	10000	9390	93.9	80.0-120	

L1253106-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253106-14 08/26/20 14:13 • (MS) R3564077-4 08/26/20 14:18 • (MSD) R3564077-5 08/26/20 14:21

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	1500	11000	10900	95.1	94.2	1	75.0-125			0.820	20
Manganese	1000	105	1060	1060	95.2	95.9	1	75.0-125			0.661	20
Sodium	10000	29400	37800	37700	83.4	82.7	1	75.0-125			0.181	20

[L1253116-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3563637-2 08/25/20 15:59

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

L1253096-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253096-01 08/25/20 16:01 • (DUP) R3563637-3 08/25/20 16:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
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)

(LCS) R3563637-1 08/25/20 15:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Methane	67.8	59.6	87.9	85.0-115	
Ethane	129	114	88.4	85.0-115	
Ethene	127	109	85.8	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

[L1253116-06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3563620-2 08/25/20 14:13

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

L1253556-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253556-01 08/25/20 14:29 • (DUP) R3563620-3 08/25/20 14:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
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)

(LCS) R3563620-1 08/25/20 14:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Methane	67.8	64.2	94.7	85.0-115	
Ethane	129	121	93.8	85.0-115	
Ethene	127	116	91.3	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

[L1253116-01,02,03,04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3564093-3 08/23/20 13:01

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) R3564093-3 08/23/20 13:01

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	109			80.0-120
(S) 4-Bromofluorobenzene	97.2			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3564093-1 08/23/20 11:44 • (LCSD) R3564093-2 08/23/20 12:03

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	19.7	23.4	78.8	93.6	19.0-160			17.2	27
Benzene	5.00	5.28	5.50	106	110	70.0-123			4.08	20
Bromodichloromethane	5.00	5.31	5.49	106	110	75.0-120			3.33	20
Bromochloromethane	5.00	5.58	5.11	112	102	76.0-122			8.79	20
Bromoform	5.00	5.27	5.47	105	109	68.0-132			3.72	20
Bromomethane	5.00	5.68	5.48	114	110	10.0-160			3.58	25
Carbon disulfide	5.00	5.48	5.40	110	108	61.0-128			1.47	20
Carbon tetrachloride	5.00	5.82	5.79	116	116	68.0-126			0.517	20
Chlorobenzene	5.00	5.85	5.95	117	119	80.0-121			1.69	20
Chlorodibromomethane	5.00	5.82	5.92	116	118	77.0-125			1.70	20
Chloroethane	5.00	5.59	6.13	112	123	47.0-150			9.22	20
Chloroform	5.00	5.50	5.97	110	119	73.0-120			8.20	20
Chloromethane	5.00	6.15	6.84	123	137	41.0-142			10.6	20
Cyclohexane	5.00	5.24	5.37	105	107	71.0-124			2.45	20
1,2-Dibromo-3-Chloropropane	5.00	5.22	5.29	104	106	58.0-134			1.33	20
1,2-Dibromoethane	5.00	5.74	5.80	115	116	80.0-122			1.04	20
1,2-Dichlorobenzene	5.00	5.59	5.98	112	120	79.0-121			6.74	20
1,3-Dichlorobenzene	5.00	5.70	6.21	114	124	79.0-120		J4	8.56	20
1,4-Dichlorobenzene	5.00	5.71	6.13	114	123	79.0-120		J4	7.09	20
Dichlorodifluoromethane	5.00	6.86	6.89	137	138	51.0-149			0.436	20



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

(LCS) R3564093-1 08/23/20 11:44 • (LCSD) R3564093-2 08/23/20 12:03

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	5.46	5.68	109	114	70.0-126			3.95	20
1,2-Dichloroethane	5.00	5.78	5.89	116	118	70.0-128			1.89	20
1,1-Dichloroethene	5.00	5.60	5.32	112	106	71.0-124			5.13	20
cis-1,2-Dichloroethene	5.00	5.66	5.48	113	110	73.0-120			3.23	20
trans-1,2-Dichloroethene	5.00	5.44	5.27	109	105	73.0-120			3.17	20
1,2-Dichloropropane	5.00	4.99	5.39	99.8	108	77.0-125			7.71	20
cis-1,3-Dichloropropene	5.00	5.07	5.15	101	103	80.0-123			1.57	20
trans-1,3-Dichloropropene	5.00	5.53	5.73	111	115	78.0-124			3.55	20
Ethylbenzene	5.00	5.73	5.98	115	120	79.0-123			4.27	20
2-Hexanone	25.0	27.1	24.7	108	98.8	67.0-149			9.27	20
Isopropylbenzene	5.00	5.69	5.87	114	117	76.0-127			3.11	20
2-Butanone (MEK)	25.0	26.1	22.2	104	88.8	44.0-160			16.1	20
Methyl Acetate	25.0	22.7	21.9	90.8	87.6	57.0-148			3.59	20
Methyl Cyclohexane	5.00	5.23	5.01	105	100	68.0-126			4.30	20
Methylene Chloride	5.00	5.00	5.46	100	109	67.0-120			8.80	20
4-Methyl-2-pentanone (MIBK)	25.0	28.3	26.8	113	107	68.0-142			5.44	20
Methyl tert-butyl ether	5.00	5.30	5.53	106	111	68.0-125			4.25	20
Styrene	5.00	5.78	5.73	116	115	73.0-130			0.869	20
1,1,2,2-Tetrachloroethane	5.00	5.19	5.31	104	106	65.0-130			2.29	20
Tetrachloroethene	5.00	5.94	6.18	119	124	72.0-132			3.96	20
Toluene	5.00	5.68	5.92	114	118	79.0-120			4.14	20
1,1,2-Trichlorotrifluoroethane	5.00	5.54	5.75	111	115	69.0-132			3.72	20
1,2,3-Trichlorobenzene	5.00	4.94	5.48	98.8	110	50.0-138			10.4	20
1,2,4-Trichlorobenzene	5.00	5.33	5.58	107	112	57.0-137			4.58	20
1,1,1-Trichloroethane	5.00	5.48	5.67	110	113	73.0-124			3.41	20
1,1,2-Trichloroethane	5.00	5.76	5.74	115	115	80.0-120			0.348	20
Trichloroethene	5.00	5.43	5.80	109	116	78.0-124			6.59	20
Trichlorofluoromethane	5.00	6.11	6.26	122	125	59.0-147			2.43	20
Vinyl chloride	5.00	6.09	6.29	122	126	67.0-131			3.23	20
Xylenes, Total	15.0	17.4	17.7	116	118	79.0-123			1.71	20
(S) Toluene-d8				108	106	80.0-120				
(S) 4-Bromofluorobenzene				101	96.6	77.0-126				
(S) 1,2-Dichloroethane-d4				109	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.

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



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

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

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

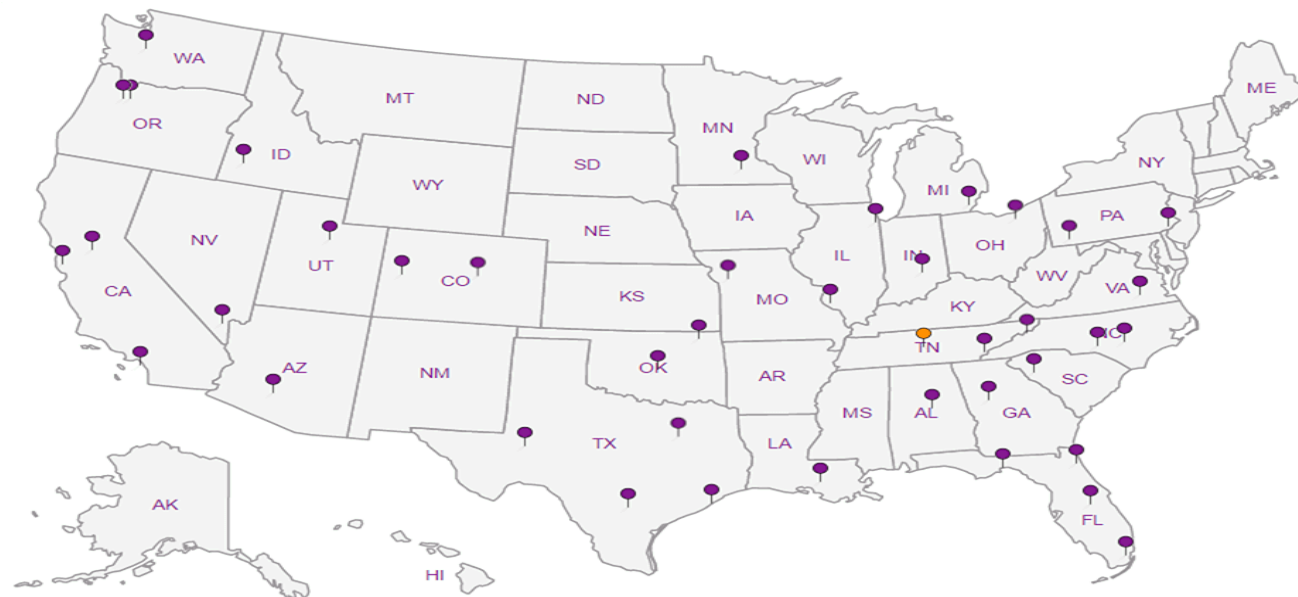
Third Party Federal Accreditations

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

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

Our Locations

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



Arcadis - Chevron - NY

27-01 Queens Plaza North
Suite 800
New York City, NY 11101

Report to:
Loretta Kwong

Project Description:
Oceanside 6518040

Phone: 718-446-0116

Collected by (print):
Felix Desmond

Collected by (signature):
Felix Desmond

Immediately
Packed on Ice N Y

Billing Information:

Attn: Accounts Payable
630 Plaza Drive, Suite 600
Highlands Ranch, CO 80129

Pres
Chk

Email To:
loretta.kwong@arcadis.com;renee.parisi@arcad

City/State
Collected:

Please Circle:
PT MT CT ET

Client Project #
30044997.3722

Lab Project #
CHEVARCNY-6518040

Site/Facility ID #
6518040

P.O. #

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		ALK, CO2, Cl, SO4	250mlHDPE NoPres	FEICP, MNICP, NAICP	250mlHDPE-HNO3	FERICFE, FERUSFE	250mlAmb-HCl	NO2NO3	250mlHDPE-H2SO4	RSK175	40mlAmb HCl	SULFIDE	250mlAmb-S-NaOH+ZnAc	TOC	250mlHDPE-HCl	V8260TCLC	40mlAmb-HCl
MW-27-D2-W- 20200819	G	GW		8-19-20	2050	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-28-D2R-W- 20200819	G	GW		8-19-20	2030	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-24-D2-W-		GW				11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-24-VD-R-W-		GW				11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AMW-15-VD-W-		GW				11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AMW-7R-W- 20200819	G	GW		8-17-20	2305	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AMW-14-VD-W- 20200819	G	GW		8-19-20	2130	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AMW-14-D2-W- 20200819	G	GW		8-19-20	2150	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-28-D1-W- 20200819	G	GW		8-19-20	2010	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-26-D2-W- 20200819	G	GW		8-19-20	1930	11	X	X	X	X	X	X	X	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:

Poland spring H2O used for FB

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☒ FedEx ☐ Courier

Tracking #

905 100 0892 9012

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: ☒ Yes ☐ No

HCl / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received: _____

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: _____ Time: _____

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # L1253116
B186

Tabl

Acctnum: CHEVARCNY

Template: T168700

Prelogin: P791533

PM: 526 - Chris McCord

PB: EU

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

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

Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Loretta Kwong				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 2	
				Email To: loretta.kwong@arcadis.com; renee.parisi@arcad				C2 C2 K1 K1 ALK, CO2, Cl, SO4 250ml HDPE NoPres FEICP, MN/CP, NAICP 250ml HDPE-HNO3 FERICFE, FERUSFE 250ml Amb-HCl NO2NO3 250ml HDPE-H2SO4 RSK175 40ml Amb HCl SULFIDE 250ml Amb-S-NaOH+ZnAc TOC 250ml HDPE-HCl V8260TCLC 40ml Amb-HCl								12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Project Description: Oceanside 6518040				City/State Collected:				Please Circle: PT MT CT ET				SDG #		Table #					
Phone: 718-446-0116				Client Project # 30044997.3722				Lab Project # CHEVARCNY-6518040				Acctnum: CHEVARCNY		Template: T168700					
Collected by (print):				Site/Facility ID # 6518040				P.O. #				Prelogin: P791533		PM: 526 - Chris McCord					
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 #				PB: EV		Shipped Via: FedEX Ground					
Immediately Packed on Ice N ☒				Date Results Needed				No. of Cntrs				Remarks		Sample # (lab only)					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time													
MW-25-D2R-W-20			GW				11	X	X	X	X	X	X	X	X	X			
AMW-15-D2-W-			GW				11	X	X	X	X	X	X	X	X	X			
AMW-15-D3-W-			GW				11	X	X	X	X	X	X	X	X	X			
AMW-23-D1R-W-			GW				11	X	X	X	X	X	X	X	X	X			
AMW-15-D1-W- FB-200819			GW		8-20-20	0005	11	X	X	X	X	X	X	X	X	X		-08	
MW-27-D1R-W- 200819		G	GW		8-19-20	2110	11	X	X	X	X	X	X	X	X	X		-09	
MW-26-D1-W- 200819		G	GW		8-19-20	1915	11	X	X	X	X	X	X	X	X	X		-10	
MW-29-D1-W- 200819		G	GW		8-19-20	2320	11	X	X	X	X	X	X	X	X	X		-11	
AMW-14-D1-W- 200819		G	GW		8-19-20	2210	11	X	X	X	X	X	X	X	X	X		-12	
MW-24-D1R-W- TRIP BLANK			GW		8-19-20	-	13	X	X	X	X	X	X	X	X	X		-13	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Poland spring H2O used for FB 9032																	
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Tracking # 9032 9012/8860																	
Relinquished by: (Signature) Felix C. Nino		Date: 8-20-20		Time: 1200		Received by: (Signature)		Trip Blank Received: Yes/No YES		HCl/MeOH TBR		Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ 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							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: °C 0.7-1.0-0.6-2.6		Bottles Received: 132		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by lab by: (Signature)		Date: 8/21/20		Time: 930		Hold:		Condition: NCF / OK					