November 15, 2018

leidos

Mr. Matthew Mashhadi
Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7015

Subject: **Progress Report – Third Quarter 2018**
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, New York
NYSDEC Site #130165

Dear Mr. Mashhadi:

On behalf of Chevron Environmental Management Company (CEMC), Leidos, Inc. is submitting this Progress Report to 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 (NYSDEC Site #130165). On December 7, 2017, NYSDEC and CEMC agreed to quarterly progress reporting in lieu of monthly reporting.

ACTIONS TAKEN THIS PERIOD

- Gauged 35 accessible wells (AMW-3, AMW-7, MW-18R, AMW-13-D1, AMW-14-D1, AMW-15-D1, MW-23-D1R, MW-24-D1, MW-26-D1, MW-27-D1, MW-28-D1, MW-29-D1, MW-30-D1, MW-31-D1R, MW-32D, OW-2-D1, AMW-13-D2, AMW-14-D2, AMW-15-D2, MW-23-D2R, MW-24-D2, MW-26-D2, MW-27-D2, MW-28-D2R, MW-29-D2, MW-30-D2, MW-31-D2R, AMW-15-D3, AMW-13-VD, AMW-14-VD, AMW-15-VD, MW-24-VD, MW-26-VD, MW-29-VD, and MW-30-VD on October 15, 2018 prior to conducting the groundwater sampling.
- Deployed Hydrasleeves™ and collected groundwater samples in 20 monitoring wells (AMW-7, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-D3, AMW-15-VD, MW-18R, MW-23D-1R, MW-24-

D1, MW-24D2, MW-24-VD, MW-26-D1, MW-26-D2, MW-27-D1, MW-27-D2, MW-28-D1, MW-28-D2R, and MW-29-D1) on October 16-18, 2018.

- Coordinated with NYSDEC and other stakeholders.

ACTIONS PLANNED FOR NEXT PERIOD

- Coordinate with NYSDEC and other stakeholders.
- Quarterly groundwater sampling.

APPROVED MODIFICATIONS TO WORK PLANS AND/OR SCHEDULES

- None

RESULTS OF SAMPLING, TESTING, OR OTHER DATA GENERATED THIS PERIOD

Concentrations of volatile organic compounds exceeding the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Water Guidance Values were detected in groundwater samples analyzed from 12 of the 20 monitoring wells sampled (AMW-14-D1, AMW-14-D2, AMW-15-D3-1, AMW-15-D2, MW-18R, MW-23-D1R, MW-24-D1, MW-26-D1, MW-26-D2, MW-27-D1, MW-28-D1, and MW-29-D1). The reported groundwater results from monitoring wells AMW-7, AMW-14-VD, AMW-15-D3, AMW-15-VD, MW-24-D2, MW-24-VD, MW-27-D2, and MW-28-D2R did not exhibit concentrations above TOGS Water Guidance Values. Exceedances of the TOGS Water Guidance Values are summarized below:

- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well AMW-14-D1 located in the western parking lot area are:
    - Methyl tert-butyl ether (MTBE) (120 µg/L); TOGS Water Guidance Value (10 µg/L), and
    - Vinyl Chloride (32 µg/L); TOGS Water Guidance Value (2 µg/L).
- The concentration of MTBE (44 µg/L) exceeded the TOGS Water Guidance Value (10 µg/L) at monitoring well AMW-14-D2 located in the western parking lot area.
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well AMW-15-D1 located near the southwest corner of the Costco building are:
    - Benzene (12 µg/L); TOGS Water Guidance (1 µg/L),
    - MTBE (170 µg/L); TOGS Water Guidance (10 µg/L),
    - Trans-1,2-dichloroethene (21 µg/L); TOGS Water Guidance Value (5 µg/L),

  - Xylenes (total) (19 µg/L); TOGS Water Guidance Value (5 µg/L),

- The concentration of MTBE (120 µg/L) exceeded the TOGS Water Guidance Value (10 µg/L) at monitoring well AMW-15-D2 located in the southwest corner of the Costco building.
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-18R located in the eastern parking lot area are:
  - 2-butanone (70J µg/L); TOGS Water Guidance (50 µg/L),
  - Acetone (230 µg/L); TOGS Water Guidance (50 µg/L),
  - Benzene (69 µg/L); TOGS Water Guidance (1 µg/L),
  - isopropylbenzene (6.8 µg/L); TOGS Water Guidance Value (5 µg/L),
  - MTBE (28 µg/L); TOGS Water Guidance (10 µg/L), and
  - Xylenes (total) (5.2J µg/L); TOGS Water Guidance Value (5 µg/L).
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-23D-1R located near the southwest corner of the Costco building are:
  - Benzene (3.8 µg/L); TOGS Water Guidance (1 µg/L) and
  - MTBE (94 µg/L); TOGS Water Guidance (10 µg/L).
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-24-D1 located near the southwest corner of the Costco building are:
  - Benzene (8.3 µg/L); TOGS Water Guidance Value (1 µg/L),
  - Ethylbenzene (6.1 µg/L); TOGS Water Guidance Value (5 µg/L),
  - MTBE (270 µg/L); TOGS Water Guidance Value (10 µg/L),
  - Toluene (17 µg/L); TOGS Water Guidance Value (5 µg/L),
  - Trans-1,2-dichloroethene (12 µg/L); TOGS Water Guidance Value (5 µg/L),
  - Vinyl Chloride (22 µg/L); TOGS Water Guidance Value (2 µg/L), and
  - Xylenes (total) (25 µg/L); TOGS Water Guidance Value (5 µg/L).
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-26-D1 located along the parking lot west perimeter fence line are:
  - Benzene (4.9 µg/L); TOGS Water Guidance (1 µg/L), and
  - MTBE (110 µg/L); TOGS Water Guidance (10 µg/L).

- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-27-D1 located in the west central parking lot area are:
    - Benzene (3.6 µg/L); TOGS Water Guidance Value (1 µg/L),
    - MTBE (38 µg/L); TOGS Water Guidance Value (10 µg/L), and
    - Vinyl Chloride (70 µg/L); TOGS Water Guidance Value (2 µg/L).
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well MW-29-D1 located in the southwest corner parking lot are:
    - Benzene (3.7 µg/L); TOGS Water Guidance Value (1 µg/L),
    - isopropylbenzene (16 µg/L); TOGS Water Guidance Value (5 µg/L),
    - MTBE (33 µg/L); TOGS Water Guidance Value (10 µg/L), and
    - Xylenes (8.1 µg/L); TOGS Water Guidance Value (5 µg/L).

Results flagged "J" are estimated values less than the laboratory quantification limit but greater than or equal to the method detection limit.

Acetone and 2-butanone were detected in excess of the TOGS Water Guidance at MW-18R. Given that these analytes are detected at MW-18R and are not widely occurring, they are potentially present due to laboratory interference.

Analytical results of the groundwater samples collected in October 2018 are summarized in the attached Table 1 and the groundwater gauging data is presented in Table 2.

UNRESOLVED DELAYS ENCOUNTERED OR ANTICIPATED

- None.

ACTIVITIES UNDERTAKEN IN SUPPORT OF CITIZEN PARTICIPATION PLAN

- None.

If you have any questions regarding this progress report, the submission timeframes for the next report, or require further information, please do not hesitate to contact me at (717) 278-7533 or steffeh@leidos.com.

Sincerely,

Leidos, Inc.

Heather L. Steffe

Heather L. Steffe, P.G., QEP
Senior Project Manager

Attachments:

Figure 1. Site Map
Figure 2. Groundwater Contour Map D1 Horizon
Figure 3. Groundwater Contour Map D2 Horizon
Figure 4. Groundwater Contour Map VD Horizon
Figure 5. Recent TOGS Exceedances in Groundwater July and October 2018
Table 1. Summary of Analytical Groundwater Results
Table 2 Summary of Groundwater Gauging Data
Test America Analytical Report No. J143644-1 & J143739-1 Chevron CVX #6518040 Oceanside, NY

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REPORT LIMITATIONS

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Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied on by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

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

Monitoring Well	Date	Well Diameter (in)	Well Depth (ft btoc)	Top of Casing Elevation (ft)*	Depth to Water (ft btoc)	Corrected Groundwater Elevation (ft amsl)
Shallow Fill Unit Monitoring Wells						
AMW-3	7/13/2018	2	12.42	9.05	6.27	2.78
	10/15/2018	2	12.42	9.05	6.18	2.87
AMW-7	6/15/2018	2	13.97	9.95	8.05	1.90
	7/11/2018	2	13.97	9.95	8.39	1.56
	10/15/2018	2	13.97	9.95	7.91	2.04
MW-18R	6/15/2018	2	9.85	7.98	4.82	3.16
	7/11/2018	2	9.85	7.98	4.84	3.14
	10/15/2018	2	9.85	7.98	4.81	3.17
D1 Horizon Monitoring Wells						
AMW-13-D1	7/13/2018	2	34.01	9.87	11.13	-1.26
	10/15/2018	2	34.01	9.87	8.63	1.24
AMW-14-D1	6/15/2018	2	33.15	9.38	6.40	2.98
	7/12/2018	2	33.15	9.38	10.72	-1.34
	10/15/2018	2	33.15	9.38	8.76	0.62
AMW-15-D1	6/14/2018	2	36.2	9.74	8.23	1.51
	7/12/2018	2	36.2	9.74	7.62	2.12
	10/15/2018	2	36.2	9.74	9.30	0.44
MW-23-D1R	6/14/2018	2	25.78	9.84	8.76	1.08
	7/12/2018	2	25.78	9.84	10.62	-0.78
	10/15/2018	2	25.78	9.84	9.31	0.53
MW-24-D1	6/14/2018	2	31.75	9.81	7.17	2.64
	7/12/2018	2	31.75	9.81	8.92	0.89
	10/15/2018	2	31.75	9.81	9.44	0.37
MW-26-D1	7/13/2018	2	28.8	9.95	11.20	-1.25
	10/15/2018	2	28.8	9.95	9.12	0.83
MW-27-D1	6/15/2018	2	32.5	9.03	6.02	3.01
	7/13/2018	2	32.5	9.03	9.22	-0.19
	10/15/2018	2	32.5	9.03	8.09	0.94
MW-27-D1R	10/15/2018				8.02	-8.02
MW-28-D1	7/13/2018	2	30.38	8.25	9.70	-1.45
	10/15/2018	2	30.38	8.25	7.46	0.79
MW-29-D1	6/15/2018	2	23.45	5.21	2.27	2.94
	7/13/2018	2	23.45	5.21	6.30	-1.09
	10/15/2018	2	23.45	5.21	4.18	1.03
MW-30-D1	7/13/2018	2	30	8.74	8.75	-0.01
	10/15/2018	2	30	8.74	8.15	0.59
MW-31-D1R	7/13/2018	2	30.04	8.39	9.30	-0.91
	10/15/2018	2	30.04	8.39	7.93	0.46
MW-32D	7/13/2018	2	37.45	8.85	9.91	-1.06
	10/15/2018	2	37.45	8.85	7.83	1.02
OW-2-D1	7/13/2018	2	33.95	9.94	9.33	0.61
	10/15/2018	2	33.95	9.94	9.53	0.41
D2 Horizon Monitoring Wells						
AMW-13-D2	7/27/2017	2	43.95	9.76	10.94	-1.18
	10/15/2018	2	43.95	9.76	8.50	1.26
AMW-14-D2	6/15/2018	2	43.17	9.37	6.40	2.97
	7/13/2018	2	43.17	9.37	10.70	-1.33
	10/15/2018	2	43.17	9.37	8.76	0.61
AMW-15-D2	6/14/2018	2	36.2	9.71	8.19	1.52
	7/12/2018	2	36.2	9.71	7.59	2.12
	10/15/2018	2	36.2	9.71	9.27	0.44
	6/14/2018	2	44.63	10.52	9.48	1.04

MW-23-D2R	7/12/2018	2	44.63	10.52	11.38	-0.86
	10/15/2018	2	44.63	10.52	9.98	0.54
MW-24-D2	6/14/2018	2	42.20	10.00	7.52	2.48
	7/12/2018	2	42.20	10.00	6.04	3.96
	10/15/2018	2	42.20	10.00	9.63	0.37
MW-26-D2	7/13/2018	2	43.76	9.40	10.38	-0.98
	10/15/2018	2	43.76	9.40	8.55	0.85
MW-27-D2	6/5/2018	2	46.97	9.09	6.15	2.94
	7/13/2018	2	46.97	9.09	9.05	0.04
	10/15/2018	2	46.97	9.09	8.10	0.99
MW-28-D2R	6/15/2018	2	46.69	8.40	5.85	2.55
	7/13/2018	2	46.69	8.40	9.79	-1.39
	10/15/2018	2	46.69	8.40	7.60	0.80
MW-29-D2	7/13/2018	2	39.82	5.38	6.52	-1.14
	10/15/2018	2	39.82	5.38	4.29	1.09
MW-30-D2	7/13/2018	2	46.63	8.72	9.21	-0.49
	10/15/2018	2	46.63	8.72	7.95	0.77
MW-31-D2R	7/13/2018	2	45.15	8.35	9.09	-0.74
	10/15/2018	2	45.15	8.35	7.70	0.65
D3 Horizon Monitoring Wells						
AMW-15-D3	6/14/2018	2	48.6	9.81	8.12	1.69
	7/12/2018	2	48.6	9.81	7.44	2.37
	10/15/2018	2	48.6	9.81	9.28	0.53
VD Horizon Monitoring Wells						
AMW-13-VD	7/13/2018	2	71.82	9.77	10.58	-0.81
	10/15/2018	2	71.82	9.77	8.71	1.06
AMW-14-VD	6/15/2018	2	75.61	9.25	6.18	3.07
	7/12/2018	2	75.61	9.25	10.38	-1.13
	10/15/2018	2	75.61	9.25	8.46	0.79
AMW-15-VD	6/14/2018	2	72.15	9.82	7.86	1.96
	7/12/2018	2	72.15	9.82	6.97	2.85
	10/15/2018	2	72.15	9.82	9.00	0.82
MW-24-VD	6/14/2018	2	73.4	9.72	7.04	2.68
	7/12/2018	2	73.4	9.72	8.53	1.19
	10/15/2018	2	73.4	9.72	9.05	0.67
MW-26-VD	7/13/2018	2	68.25	9.99	10.04	-0.05
	10/15/2018	2	68.25	9.99	9.16	0.83
MW-29-VD	7/13/2018	2	67.22	5.27	NG	NG
	10/15/2018	2	67.22	5.27	4.26	1.01
MW-30-VD	7/13/2018	4	83.40	8.70	8.55	0.15
	10/15/2018	4	83.40	8.70	7.29	1.41

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

TABLE 1
SUMMARY OF ANALYTICAL GROUNDWATER RESULTS
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NY

Location ID:	NYSDEC		AMW-7	AMW-7	AMW-14-D1	AMW-14-D1	AMW-14-D2	AMW-14-D2	AMW-14-VD	AMW-14-VD	AMW-15-D1	AMW-15-D2	AMW-15-D3	AMW-15-D3	AMW-15-VD	AMW-15-VD	MW-18R	MW-18R	MW-23D-1R	MW-23D-1R
Date Collected:	TOGS 1.1.1	Units	07/11/18	10/17/18	07/12/18	10/17/18	07/12/18	10/17/18	07/12/18	10/17/18	10/17/18	10/17/18	07/15/18	10/17/18	07/15/18	10/17/18	07/11/18	10/17/18	07/12/18	10/17/18
Field Notes			Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve
Volatile Organics																				
1,1,1-Trichloroethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,1,2-Trichloroethane	1	µg/L	*2.0 U*	1.0 U	*8.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	1.0 U	*20 U*	*5.0 U*	*4.0 U*	1.0 U
1,1-Dichloroethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**1.5 J**	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,1-Dichloroethene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	µg/L	*2.0 U*	*10 U*	*8.0 U*	*10 U*	*2.0 U*	*10 U*	*1.0 U*	*10 U*	*50 U*	*10 U*	*2.0 U*	*10 U*	*1.0 U*	*10 U*	20 U	*50 U*	*4.0 U*	*10 U*
1,2-Dibromoethane	0.0006	µg/L	*2.0 U*	*1.0 U*	*8.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	20 U	*5.0 U*	*4.0 U*	*1.0 U*
1,2-Dichlorobenzene	3	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	*5.0 U*	*4.0 U*	1.0 U
1,2-Dichloroethane	0.6	µg/L	*2.0 U*	*1.0 U*	*8.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	20 U	*5.0 U*	*4.0 U*	*1.0 U*
1,2-Dichloropropane	1	µg/L	*2.0 U*	1.0 U	*8.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	1.0 U	20 U	*5.0 U*	*4.0 U*	1.0 U
1,3-Dichlorobenzene	3	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	*5.0 U*	*4.0 U*	1.0 U
1,4-Dichlorobenzene	3	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	*5.0 U*	*4.0 U*	1.0 U
2-Butanone	50	µg/L	20 U	50 U	*80 U*	50 U	20 U	50 U	10 U	50 U	*250 U*	50 U	20 U	50 U	10 U	50 U	**74 J**	**70 J**	40 U	50 U
2-Hexanone	50	µg/L	10 U	10 U	40 U	10 U	10 U	10 U	5.0 U	10 U	50 U	10 U	10 U	10 U	5.0 U	10 U	*100 U*	50 U	20 U	10 U
4-Methyl-2-pentanone	- -	µg/L	10 U	10 U	40 U	10 U	10 U	10 U	5.0 U	10 U F1	50 U	10 U	10 U	10 U	5.0 U	10 U	100 U	50 U	20 U	10 U
Acetone	50	µg/L	20 U	**8.1 J**	*80 U*	25 U	20 U	25 U	10 U	25 U	*130 U*	25 U	**16 J**	25 U	10 U	25 U	**330**	**230**	40 U	25 U
Benzene	1	µg/L	**0.82 J**	**0.78 J**	**5.3 J**	**0.98 J**	*2.0 U*	1.0 U	1.0 U	1.0 U	**12**	1.0 U	*2.0 U*	1.0 U	1.0 U	1.0 U	**48**	**69**	**2.7 J**	**3.8**
Bromodichloromethane	50	µg/L	2.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	5.0 U	4.0 U	1.0 U
Bromoform	50	µg/L	2.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	5.0 U	4.0 U	1.0 U
Bromomethane	5	µg/L	2.0 U	1.0 U *	*8.0 U*	1.0 U *	2.0 U	1.0 U *	1.0 U	1.0 U *	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U *	4.0 U	1.0 U
Carbon Disulfide	60	µg/L	2.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**1.7 J**	**0.34 J**	**0.70 J**	**0.42 J**	1.0 U	1.0 U	**6.2 J**	**2.4 J**	4.0 U	**0.29 J**
Carbon Tetrachloride	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Chlorobenzene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Chloroethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Chloroform	7	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Chloromethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
cis-1,2-Dichloroethene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	**0.26 J**	**3.1**	**0.44 J**	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	**1.7**
cis-1,3-Dichloropropene	0.4	µg/L	*2.0 U*	*1.0 U*	*8.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*20 U*	*5.0 U*	*4.0 U*	*1.0 U*
Cyclohexane	- -	µg/L	**16**	**29**	8.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	**2.8 J**	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	20 U	**8.3 J**	4.0 U	5.0 U
Dibromochloromethane	50	µg/L	2.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20 U	5.0 U	4.0 U	1.0 U
Dichlorodifluoromethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Ethylbenzene	5	µg/L	2.0 U	**0.19 J**	**7.5 J**	**1.0**	2.0 U	1.0 U	1.0 U	1.0 U	**5.0**	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	**1.2 J**	4.0 U	1.0 U
Isopropylbenzene	5	µg/L	**7.1**	**4.9**	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	**6.8**	4.0 U	**0.56 J**
Methyl acetate	- -	µg/L	5.0 U	10 U	20 U	10 U	5.0 U	10 U	2.5 U	10 U	50 U	10 U	5.0 U	10 U	2.5 U	10 U	50 U	50 U	10 U	10 U
Methyl tert-butyl ether	10	µg/L	2.0 U	1.0 U	**160**	**120**	**62**	**44**	**0.49 J**	1.0 U	**170**	**120**	**22**	**10**	**0.44 J**	**1.3**	**11 J**	**28**	**91**	**94**
Methylcyclohexane	- -	µg/L	**29**	**50**	**1.7 J**	**0.40 J**	2.0 U	5.0 U	1.0 U	5.0 U	**1.2 J**	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	**5.1 J**	**6.2 J**	4.0 U	5.0 U
Methylene Chloride	5	µg/L	**1.1 J**	5.0 U	*8.0 U*	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	*25 U*	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	*20 U*	*25 U*	4.0 U	5.0 U
Styrene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Tetrachloroethene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Toluene	5	µg/L	**1.0 J**	**0.60 J**	*8.0 U*	**0.27 J**	2.0 U	1.0 U	1.0 U	1.0 U	**1.5 J**	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	**4.1 J**	4.0 U	1.0 U
trans-1,2-Dichloroethene	5	µg/L	2.0 U	1.0 U	**8.6**	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**21**	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	µg/L	*2.0 U*	*1.0 U*	*8.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*1.0 U*	*20 U*	*5.0 U*	*4.0 U*	*1.0 U*
Trichloroethene	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	**20**	**3.5**	1.0 U	1.0 U	*20 U*	5.0 U	4.0 U	1.0 U
Trichlorofluoromethane	5	µg/L	2.0 U	1.0 U	*8.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U *	1.0 U *	2.0 U	1.0 U *	1.0 U	1.0 U *	*20 U*	5.0 U	4.0 U	1.0 U *
Vinyl Chloride	2	µg/L	2.0 U	1.0 U	*8.0 U*	**32**	2.0 U	1.0 U	1.0 U	1.0 U	*5.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	*20 U*	*5.0 U*	*4.0 U*	**1.0**
Xylenes (total)	5	µg/L	4.0 U	**0.61 J**	**16**	**1.6 J**	4.0 U	3.0 U	2.0 U	3.0 U	**19**	3.0 U	4.0 U	3.0 U	2.0 U	3.0 U	*40 U*	**5.2 J**	*8.0 U*	3.0 U
GC Volatiles - RSK-175																				
Carbon dioxide	- -	µg/L	**82,000**	**94,000 B**	**42,000**	**120,000 B**	**120,000**	**150,000 B**	**120,000**	**110,000 B**	**40,000**	**110,000**	**7,600**	**100,000**	**41,000**	**37,000**	**2,200**	**11,000 B**	**6,400**	**63,000**
Ethane	- -	µg/L	330 U	330 U	**660 J**	330 U	330 U	330 U	7.5 U	7.5 U	660 U	330 U	330 U	170 U	7.5 U	7.5 U	660 U	660 U	330 U	660 U
Ethene	- -	µg/L	310 U	310 U	**260 J**	310 U	310 U	310 U	7.0 U	7.0 U	620 U	310 U	310 U	150 U	7.0 U	7.0 U	620 U	620 U	310 U	620 U
Methane	- -	µg/L	**3500**	**5,800**	**2,000**	**1,600**	**970**	**2,200**	**27**	**24**	**5,100**	**560**	**1,500**	**2,800**	**37**	**27**	**3,800**	**9,700**	**4,800**	**3,600**

TABLE 1
SUMMARY OF ANALYTICAL GROUNDWATER RESULTS
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NY

Location ID:	NYSDEC		AMW-7	AMW-7	AMW-14-D1	AMW-14-D1	AMW-14-D2	AMW-14-D2	AMW-14-VD	AMW-14-VD	AMW-15-D1	AMW-15-D2	AMW-15-D3	AMW-15-D3	AMW-15-VD	AMW-15-VD	MW-18R	MW-18R	MW-23D-1R	MW-23D-1R
Date Collected:	TOGS 1.1.1	Units	07/11/18	10/17/18	07/12/18	10/17/18	07/12/18	10/17/18	07/12/18	10/17/18	10/17/18	10/17/18	07/15/18	10/17/18	07/15/18	10/17/18	07/11/18	10/17/18	07/12/18	10/17/18
Field Notes			Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve
Inorganics																				
Iron	0.3	mg/L	**20**	**12.5**	**1.6**	**5**	**2.5**	**2.7**	**18.4**	**18.5**	**3.9**	**0.75**	**3.1**	**0.26**	**10.6**	**10.7**	**1.4**	**0.45**	**4.3**	**1.9**
Manganese	0.3	mg/L	**2.5 B**	**2.9 B**	**0.014**	**0.055 B**	**0.078 B**	**0.1 B**	**0.41 B**	**0.39 B**	**0.32**	**0.055**	**1.1B**	**0.2**	**0.32 B**	**0.31**	**0.017 B**	**0.026 B**	**0.81**	**0.93**
Sodium	20	mg/L	**199**	**168**	**975**	**1,560**	**2,210**	**2,230**	**8,660**	**9,100**	**989**	**2,130**	**3,870**	**2,610**	**8,290**	**8,770**	**161**	**193**	**1,360**	**1,220**
General Chemistry																				
Alkalinity, Total	- -	mg/L	**881 B**	**997**	**623 B**	**673**	**472 B**	**485 B**	**641 B**	**409 B**	**442**	**461**	**518 B**	**108**	**357 B**	**271**	**875 B**	**365**	**495 B**	**360**
Chloride	250	mg/L	**253**	**192**	**2,970**	**3,620**	**19,400**	**4,510**	**3,620**	**16,300**	**1,910**	**3,790**	**4,670**	**7,380**	**19,200**	**13,200**	**4,220**	**259**	**2,250**	**2,260**
Ferric Iron	- -	mg/L	**19.7**	**12.5**	**1.5**	**4.7**	**18.4**	**2.7**	**0.42**	**18.5**	**3.8**	**0.75**	**3.1**	**0.26**	**10.6**	**10.7**	**10.1**	**0.45**	**4.0**	**1.9**
Ferrous Iron	- -	mg/L	**0.32 HF**	0.1 U HF	**0.12 HF**	**0.26 HF**	0.10 U HF	0.1 U HF	0.10 U HF	0.1 U HF	**0.12 HF**	0.1 U HF	0.10 U HF	0.1 U HF	0.10 U HF	0.1 U HF	0.10 U HF	0.1 U HF	**0.26 HF**	0.1 U HF
Nitrate as N	10	mg/L	0.050 U H	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	**0.079**	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U
Nitrite as N	1	mg/L	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U
Sulfide	0.05	mg/L	**3.8**	**1.6**	**50.8**	**48.4**	**5.2 F1**	**58.8**	**40.0**	*1 U*	**56**	**48**	**22.8**	**35.6**	**0.80 J**	*1 U*	**66.4**	**11.6**	**28.8**	**25.2**
Total Organic Carbon	10	mg/L	**27.4 B**	**30.3**	**35.5 B**	**10.8**	**2.9 B**	**11.1**	**10.3 B**	**2.7**	**24.5**	**8.5**	**10.2 B**	**7.7**	**5.6 B**	**2.9**	**19.6 B**	**193**	**18.1 B**	**16.8**
Sulfate	250	mg/L	**41.9**	**22.6 B**	**172**	**198 B**	**1,870**	**327 B**	**358**	**1,920 B**	**188**	**262 B**	**482**	**916**	**1,890**	**1,530 B**	**200**	**20 B**	**149**	**177**

Notes:
µg/L: micrograms per liter.
mg/L: milligrams per liter.
E: Result exceeded the calibration range.
B: Compound was found in the blank and sample.
H: Sample was prepped or analyzed beyond specified holding time.
HF: Field parameter with a holding time of 15 minutes. Test
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Bolded value: indicates a result above laboratory detection limits.
Shaded cells: Indicates result above the referenced standard.
*: LCS/LCSD is outside acceptance limits.
Italics values: indicates a PQL in excess of the referenced standard; result is inconclusive

TABLE 1
SUMMARY OF ANALYTICAL GROUNDWATER RESULTS
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NY

Location ID:	NYSDEC		MW-23D-2R	MW-24-D1	MW-24-D1	MW-24-D2	MW-24-D2	MW-24-VD	MW-24-VD	MW-26-D1	MW-26-D1	MW-26-D2	MW-27-D1	MW-27-D1	MW-27-D2	MW-27-D2	MW-28-D1	MW-28-D2R	MW-28-D2R	MW-29-D1	MW-29-D1
Date Collected:	TOGS 1.1.1	Units	07/12/18	07/12/18	10/16/18	07/12/18	10/17/18	07/12/18	10/17/18	07/13/18	10/17/18	10/17/18	07/13/18	10/18/18	07/13/18	10/18/18	10/17/18	07/13/18	10/17/18	07/13/18	10/18/18
Field Notes			Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve
Volatile Organics																					
1,1,1-Trichloroethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,1,2-Trichloroethane	1	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	1.0 U	*4.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	*2.0 U*	1.0 U	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
1,1-Dichloroethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,1-Dichloroethene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,2,4-Trichlorobenzene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	µg/L	*8.0 U*	*8.0 U*	*50 U*	*2.0 U*	*10 U*	*4.0 U*	*10 U*	*2.0 U*	*10 U*	*10 U*	*2.0 U*	*10 U*	*4.0 U*	*10 U*	*10 U*	*4.0 U*	*10 U*	*4.0 U*	*10 U*
1,2-Dibromoethane	0.0006	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*4.0 U*	*1.0 U*
1,2-Dichlorobenzene	3	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	2.0 U	1.0 U	*4.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
1,2-Dichloroethane	0.6	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*4.0 U*	*1.0 U*
1,2-Dichloropropane	1	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	1.0 U	*4.0 U*	1.0 U	*2.0 U*	1.0 U	1.0 U	*2.0 U*	1.0 U	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
1,3-Dichlorobenzene	3	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	2.0 U	1.0 U	*4.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
1,4-Dichlorobenzene	3	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	2.0 U	1.0 U	*4.0 U*	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
2-Butanone	50	µg/L	*80 U*	*80 U*	*250 U*	20 U	50 U	40 U	50 U	20 U	50 U	50 U	20 U	50 U	40 U	50 U	50 U	40 U	50 U	40 U	50 U
2-Hexanone	50	µg/L	40 U	40 U	50 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U	**9.1 J**	10 U
4-Methyl-2-pentanone	- -	µg/L	40 U	40 U	50 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U	20 U	10 U
Acetone	50	µg/L	*80 U*	*80 U*	*130 U*	20 U	**2.8 J**	40 U	25 U	20 U	25 U	25 U	20 U	25 U	40 U	25 U	**9.3 J**	40 U	25 U	40 U	25 U
Benzene	1	µg/L	*8.0 U*	**11**	**8.3**	*2.0 U*	1.0 U	*4.0 U*	1.0 U	**17**	**4.9**	**0.69 J**	**7.8**	**3.6**	*4.0 U*	1.0 U	**5.6**	*4.0 U*	1.0 U	**5.2**	**3.7**
Bromodichloromethane	50	µg/L	8.0 U	8.0 U	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Bromoform	50	µg/L	8.0 U	8.0 U	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Bromomethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U *	1.0 U *	2.0 U	1.0 U *	4.0 U	1.0 U *	1.0 U *	4.0 U	1.0 U *	4.0 U	1.0 U *
Carbon Disulfide	60	µg/L	8.0 U	**2.1 J**	**1.4 J**	2.0 U	**0.24 J**	4.0 U	**0.64 J**	2.0 U	**0.45 J**	1.0 U	**0.64 J**	1.0 U	4.0 U	1.0 U	**0.47 J**	**1.0 J**	1.0 U	4.0 U	1.0 U
Carbon Tetrachloride	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Chlorobenzene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Chloroethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Chloroform	7	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Chloromethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
cis-1,2-Dichloroethene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	**0.52 J**	4.0 U	**0.28 J**	2.0 U	**0.42 J**	1.0 U	**2.0**	**1.0**	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*4.0 U*	*1.0 U*
Cyclohexane	- -	µg/L	8.0 U	8.0 U	25 U	2.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	4.0 U	5.0 U	**24**	**20**
Dibromochloromethane	50	µg/L	8.0 U	8.0 U	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Dichlorodifluoromethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Ethylbenzene	5	µg/L	*8.0 U*	**7.1 J**	**6.1**	2.0 U	1.0 U	4.0 U	1.0 U	**3.5**	**0.95 J**	**0.39 J**	2.0 U	1.0 U	4.0 U	1.0 U	**1.4**	4.0 U	1.0 U	4.0 U	**0.31 J**
Isopropylbenzene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	**0.43 J**	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	**0.33 J**	4.0 U	1.0 U	**19**	**16**
Methyl acetate	- -	µg/L	20 U	20 U	50 U	5.0 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	µg/L	**180**	**290**	**270**	**2.5**	**2.0**	**4.2**	**2.9**	**220 E**	**110**	**76**	**62**	**38**	**3.4 J**	1.0 U	**9.5**	4.0 U	1.0 U	**39**	**33**
Methylcyclohexane	- -	µg/L	8.0 U	8.0 U	25 U	2.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	4.0 U	5.0 U	**11**	**11**
Methylene Chloride	5	µg/L	*8.0 U*	*8.0 U*	*25 U*	2.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	4.0 U	5.0 U	4.0 U	5.0 U
Styrene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Tetrachloroethene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Toluene	5	µg/L	*8.0 U*	**23**	**17**	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	**0.23 J**	1.0 U	**1.6 J**	**1.0**	4.0 U	1.0 U	**0.39 J**	4.0 U	1.0 U	**3.0 J**	**2.8**
trans-1,2-Dichloroethene	5	µg/L	*8.0 U*	**22**	**12**	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	**4.1**	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	µg/L	*8.0 U*	*8.0 U*	*5.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*1.0 U*	*2.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*1.0 U*	*4.0 U*	*1.0 U*	*4.0 U*	*1.0 U*
Trichloroethene	5	µg/L	*8.0 U*	*8.0 U*	5.0 U	2.0 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	**0.26 J**	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Trichlorofluoromethane	5	µg/L	*8.0 U*	*8.0 U*	5.0 U *	2.0 U	1.0 U *	4.0 U	1.0 U *	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Vinyl Chloride	2	µg/L	*8.0 U*	**160**	**22**	2.0 U	**0.23 J**	*4.0 U*	**0.55 J**	**13**	1.0 U	1.0 U	**88**	**70**	*4.0 U*	1.0 U	1.0 U	*4.0 U*	1.0 U	*4.0 U*	1.0 U
Xylenes (total)	5	µg/L	*16 U*	**29**	**25**	4.0 U	3.0 U	*8.0 U*	3.0 U	4.0 U	3.0 U	3.0 U	4.0 U	3.0 U	*8.0 U*	3.0 U	**2.6 J**	8.0 U	3.0 U	**5.5 J**	**8.1**
GC Volatiles - RSK-175																					
Carbon dioxide	- -	µg/L	**120,000**	**67,000**	**59,000**	**15,000**	**5,700**	**89,000**	**79,000**	**110,000**	**65,000 B**	**110,000 B**	**140,000**	**150,000 B**	**140,000**	**130,000 B**	**8,900 B**	**91,000**	**140,000 B**	**180,000**	**210,000 B**
Ethane	- -	µg/L	170 U	**130 J**	660 U	**7.5**	170 U	**2.1 J**	7.5 U	330 U	170 U	170 U	660 U	170 U	330 U	170 U	330 U	330 U	170 U	660 U	1,700 U
Ethene	- -	µg/L	150 U	**1100**	550 J	**7.0**	150 U	**2.3 J**	7.0 U	310 U	150 U	150 U	620 U	150 U	310 U	150 U	310 U	310 U	150 U	620 U	1,500 U
Methane	- -	µg/L	**730**	**5,900**	**6,000**	**44**	**370**	**160**	**120**	**2,900**	**1,800**	**1,100**	**3,700**	**3,900**	**1,500**	**1,200**	**1,500**	**880**	**240**	**15,000**	**19,000**

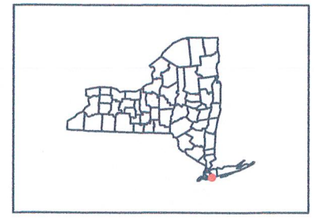
TABLE 1
SUMMARY OF ANALYTICAL GROUNDWATER RESULTS
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NY

Location ID:	NYSDEC		MW-23D-2R	MW-24-D1	MW-24-D1	MW-24-D2	MW-24-D2	MW-24-VD	MW-24-VD	MW-26-D1	MW-26-D1	MW-26-D2	MW-27-D1	MW-27-D1	MW-27-D2	MW-27-D2	MW-28-D1	MW-28-D2R	MW-28-D2R	MW-29-D1	MW-29-D1
Date Collected:	TOGS 1.1.1	Units	07/12/18	07/12/18	10/16/18	07/12/18	10/17/18	07/12/18	10/17/18	07/13/18	10/17/18	10/17/18	07/13/18	10/18/18	07/13/18	10/18/18	10/17/18	07/13/18	10/17/18	07/13/18	10/18/18
Field Notes			Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve
Inorganics																					
Iron	0.3	mg/L	**0.42**	**10.1**	**2.9**	**1.1**	**0.61**	**37.9**	**26.1**	**0.32**	**0.28**	**0.15**	**0.82**	**2.1**	**4.6**	**2.8**	**0.98**	**5.2**	**2.2**	**1.3**	**1.5**
Manganese	0.3	mg/L	**0.11 B**	**0.12 B**	**0.091**	**0.33 B**	**0.032**	**0.91 B**	**0.74**	**0.035 B**	**0.024 B**	**0.052 B**	**0.17 B**	**0.061 B**	**0.34 B**	**0.94 B**	**0.022 B**	**0.19 B**	**0.71 B**	**0.34 B**	**0.27 B**
Sodium	20	mg/L	**1,820**	**2,140**	**1,070**	**95**	**108 ^**	**8,960**	**8,730**	**1,640**	**1,510**	**2,190**	**1,690**	**1,770**	**2,530**	**3,580**	**386**	**3,000**	**4,670**	**988**	**960**
General Chemistry																					
Alkalinity, Total	- -	mg/L	**641 B**	**875 B**	**583**	**114 B**	**102**	**454 B**	**416**	**558**	**416**	**509**	**526 B**	**725**	**363 B**	**195**	**102**	**468 B**	**333**	**563 B**	**535**
Chloride	250	mg/L	**3,620**	**4,220**	**2,370**	**182**	**201**	**16,000**	**13,100**	**2,810**	**2,540**	**3,820**	**2,770**	**3,890**	**7,510**	**8,300**	**945**	**4,010**	**9,820**	**1,680**	**1,550**
Ferric Iron	- -	mg/L	**0.42**	**10.1**	**2.9**	**1.1**	**0.61**	**37.8**	**26.1**	**0.32**	**0.28**	**0.15**	**8.0**	**2.0**	**4.6**	**2.8**	**0.98**	**5.2**	**2.2**	**1.3**	**1.5**
Ferrous Iron	- -	mg/L	0.10 U HF	0.10 U HF	0.1 U HF F1	0.10 U HF	0.1 U HF	**0.10 HF**	0.1 U HF	0.10 U HF	0.1 U HF	0.1 U HF	**0.17 HF**	**0.091 J HF**	0.10 U HF	0.1 U HF	0.1 U HF	0.10 U HF	0.1 U HF	0.10 U HF	0.1 U HF
Nitrate as N	10	mg/L	0.050 U H	0.050 U H	0.05 U H	**0.051 H**	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	0.05 U	0.050 U H	0.05 U	0.050 U H	0.05 U	**0.076**	0.050 U H	**0.26**	0.050 U H	0.05 U
Nitrite as N	1	mg/L	0.050 U H	0.050 U H	0.050 U H	**0.020 J H**	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	0.050 U	0.050 U H	0.050 U	0.050 U H	0.050 U	**0.044 J**	0.050 U H	0.050 U	0.050 U H	0.050 U
Sulfide	0.05	mg/L	**40.0**	**66.4**	**56.4**	**0.80 J**	**0.8 J**	*1.0 U*	*1 U*	**44.8**	**28.4**	**25.6**	**63.2**	**63.2**	**10.8**	**7.2**	**7.2**	**11.2**	**3.2**	**1.2**	**0.8 J**
Total Organic Carbon	10	mg/L	**10.3 B**	**19.6 B**	**20.0**	**7.4 B**	**7.7**	**3.9 B**	**3.5**	**14.1 B**	**21.4**	**9.0**	**12.7 B**	**10.6**	**8.0 B**	**6.5**	**23.1**	**5.0 B**	**3.5**	**9.2 B**	**10.9**
Sulfate	250	mg/L	**358**	**200**	**75.3**	**28.0**	**29.9**	**1,640**	**1,300**	**237**	**264 B**	**361 B**	**157**	**183**	**844**	**1,250**	**231**	**432**	**1,330**	40.0 U	**13.6 J**

Notes:
µg/L: micrograms per liter.
mg/L: milligrams per liter.
E: Result exceeded the calibration range.
B: Compound was found in the blank and sample.
H: Sample was prepped or analyzed beyond specified holding time.
HF: Field parameter with a holding time of 15 minutes. Test
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Bolded value: indicates a result above laboratory detection limits.
Shaded cells: Indicates result above the referenced standard.
*: LCS/LCSD is outside acceptance limits.
Italics values: indicates a PQL in excess of the referenced standard; result is inconclusive

Legend

- Groundwater Monitor Wel
- Abandoned/Destroyed Monitor Well



0 30 60 120 Feet

1 inch = 60 feet

N

Map Coordinate System:
NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Chevron Facility 6518040
3705 Hampton Rd
Oceanside, NY

Site Map

drawn SGK	checked	approved	figure no.
date 11/6/2018	date	date	1
job no. 319926.00.16.A.695A.0202.0100			file no.Site_GE2017GeoRefImageV2

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COSTCO

MW-18R

MW-DR

BARNUM ISLAND CHANNEL

AMW-7

1.00

MW-32D
1.02

MW-24-D1
0.38

OW-1-D1

OW-3-D1

MW-24-D2

IW-2-D1

OW-2-D1
0.41

0.75

0.50

AMW-15-VD

AMW-15-D2

MW-27-D1
0.83

MW-27-D2

AMW-3

AMW-15-D3

MW-23-D1R
2.21

AMW-15-D1
0.94

MW-23-D2R

AMW-14-D2

AMW-14-D1

AMW-14-VD

AMW-13-D1
1.24

AMW-13-VD

AMW-13-D2

MW-26-D1
0.83

MW-26-VD

MW-26-D2

MW-28-D2R

MW-28-D1
0.79

MW-30-VD

MW-30-D2

MW-31-D2R

MW-30-D1

MW-31-D1R

MW-29-D2

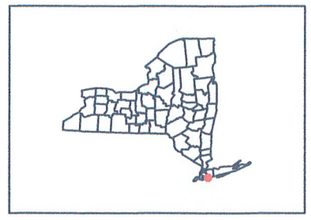
MW-29-VD

MW-29-D1
1.03

HAMPTON ROAD

Legend

- Water Table Monitoring Well
- Meadow Mat Monitoring Well
- Lower Sand Unit Monitoring Well
- Lower Sand Unit Injection Well
- Groundwater Elevation in feet above mean sea level (AMSL)
- Inferred Groundwater Flow Direction
- Site Feature



0 37.5 75 150 Feet

1 inch = 75 feet

N

Map Coordinate System:
NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Chevron Facility 6518040
3705 Hampton Rd
Oceanside, NY

D1 Horizon GW Contour Map
October 15, 2018

drawn SGK	checked	approved	figure no.
date 11/7/2018	date	date	2
job no. 320967.01.17.A.695A.9404.0100			file no. GW_D1_Cont_4Q18

initials	date	revision

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COSTCO

MW-18R

MW-DR

MW-32D

BARNUM ISLAND CHANNEL

AMW-7

MW-24-D1
OW-1-D1
OW-3-D1
IW-2-D1
MW-24-D2
OW-2-D1
AMW-15-D3
AMW-15-VD
AMW-15-D2
0.44
1.00
0.75
MW-27-D1
MW-27-D2
0.99
AMW-3
AMW-15-D1
MW-23-D1R
0.50
MW-23-D2R
0.54
AMW-14-D2
0.61
AMW-14-D1
AMW-14-VD
AMW-13-VD
AMW-13-D1
AMW-13-D2
MW-26-VD
MW-26-D1
MW-26-D2
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MW-31-D2R
0.65
MW-31-D1R
MW-28-D2R
0.80
MW-28-D1
MW-30-D2
0.77
MW-30-D1
MW-30-VD
MW-29-VD
MW-29-D2
1.09
MW-29-D1

HAMPTON ROAD

Legend

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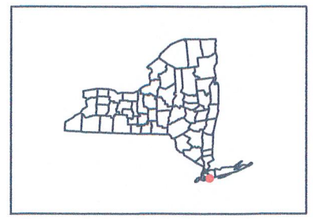
- Inferred Groundwater Flow Direction
- Site Feature



0 37.5 75 150 Feet

1 inch = 75 feet

N

Map Coordinate System:
NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Chevron Facility 6518040
3705 Hampton Rd
Oceanside, NY

D2 Horizon GW Contour Map
October 15, 2018

drawn SGK	checked	approved	figure no.
date 11/7/2018	date	date	3
job no. 320967.01.17.A.695A.9404.0100			file no. GW_D2_Cont_4Q18

initials	date	revision

leidos

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COSTCO

MW-18R

MW-DR

MW-32D

MW-24-D1
OW-1-D1
OW-3-D1
MW-24-D2
IW-2-D1
OW-2-D1
AMW-15-D3
MW-23-D1R
MW-23-D2R
AMW-13-D1
AMW-13-D2
AMW-15-VD
0.82
AMW-15-D2
AMW-15-D1
0.75
AMW-14-D2
AMW-14-D1
AMW-14-VD
0.79
AMW-13-VD
1.06
1.00
MW-26-VD
0.83
MW-26-D1
MW-26-D2
1.00
MW-27-D1
MW-27-D2
AMW-3
0.75
MW-30-VD
1.41
MW-30-D2
MW-30-D1
MW-31-D2R
MW-31-D1R
MW-28-D2R
MW-28-D1
MW-29-D2
MW-29-D1
MW-29-VD
1.01
1.00

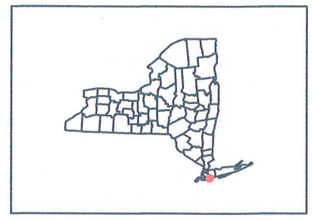
AMW-7

BARNUM ISLAND CHANNEL

HAMPTON ROAD

Legend

- Water Table Monitoring Well
- Meadow Mat Monitoring Well
- Lower Sand Unit Monitoring Well
- Lower Sand Unit Injection Well
- Groundwater Elevation in feet above mean sea level (AMSL)
- Inferred Groundwater Flow Direction
- Site Feature



0 37.5 75 150 Feet

1 inch = 75 feet

N

Map Coordinate System:
NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Chevron Facility 6518040
3705 Hampton Rd
Oceanside, NY

VD Horizon GW Contour Map
October 15, 2018

drawn SGK	checked	approved	figure no.
date 11/7/2018	date	date	4
job no. 320967.01.17.A.695A.9404.0100			file no. GW_VD_Cont_4Q18

initials	date	revision

leidos

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Location ID
Date Collected
Screen Interval
Field Notes

Compound	Abbreviation	NYSDEC TOGS 1.1.1 Water Guidance
Acetone	At	50
Benzene	B	1
cis-1,2-Dichloroethene	cis-1,2-DCE	5
Ethylbenzene	E	5
Isopropylbenzene	Cumene	5
Methyl tert-butyl ether	MTBE	10
Methylene Chloride	MeCl	5
Toluene	T	5
trans-1,2-Dichloroethene	trans-1,2-DCE	5
Trichloroethene	TCE	5
Vinyl Chloride	VC	2
Xylenes (total)	X	5

Legend

- Groundwater Monitor
- Abandoned/Destroyed Monitor
- *Wells Included in Pre-Feasibility Study Groundwater Sampling Program*
- Site Feature

All units are µg/L
NYSDEC TOGS - New York State Department of Environmental Conservation Technical & Operational Guidance Series.
Bold : Result detected above the method detection limit
Shaded : Result exceeds the NYSDEC TOGS 1.1.1 Water Guidance Values
U : Indicates the analyte was analyzed for but not detected.
J : Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
[ ]: Duplicate sample

MW-18R	07/11/18 Hydrasleeve	10/17/18 Hydrasleeve
At	330	230
B	48	69
E	20 U	1.2 J
Cumene	20 U	6.8
MTBE	11 J	28
T	20 U	4.1 J
trans-1,2-DCE	20 U	5.0 U
TCE	20 U	5.0 U
VC	20 U	5.0 U
X	40 U	5.2 J

AMW-15-VD	07/15/18 Hydrasleeve	10/17/18 Hydrasleeve
At	10 U	25 U
B	1.0 U	1.0 U
E	1.0 U	1.0 U
Cumene	1.0 U	1.0 U
MTBE	0.44 J	1.3
T	1.0 U	1.0 U
trans-1,2-DCE	1.0 U	1.0 U
TCE	1.0 U	1.0 U
VC	1.0 U	1.0 U
X	2.0 U	3.0 U

AMW-15-D3	07/15/18 Hydrasleeve	10/17/18 Hydrasleeve
At	16 J	25 U
B	2.0 U	1.0 U
E	2.0 U	1.0 U
Cumene	2.0 U	1.0 U
MTBE	22	10
T	2.0 U	1.0 U
trans-1,2-DCE	2.0 U	1.0 U
TCE	20	3.5
VC	2.0 U	1.0 U
X	4.0 U	3.0 U

AMW-15-D2	10/17/18 Hydrasleeve
At	25 U
B	1.0 U
E	1.0 U
Cumene	1.0 U
MTBE	120
T	1.0 U
trans-1,2-DCE	1.0 U
TCE	1.0 U
VC	1.0 U
X	3.0 U

AMW-15-D1	10/17/18 Hydrasleeve
At	130 U
B	12
E	5
Cumene	5.0 U
MTBE	170
T	1.5 J
trans-1,2-DCE	21
TCE	5.0 U
VC	5.0 U
X	19

MW-24-VD	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	40 U	25 U
B	4.0 U	1.0 U
E	4.0 U	1.0 U
Cumene	4.0 U	1.0 U
MTBE	4.2	2.9
T	4.0 U	1.0 U
trans-1,2-DCE	4.0 U	1.0 U
TCE	4.0 U	1.0 U
VC	4.0 U	0.55 J
X	8.0 U	3.0 U

MW-24-D2	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	20 U	2.8 J
B	2.0 U	1.0 U
E	2.0 U	1.0 U
Cumene	2.0 U	1.0 U
MTBE	2.5	2
T	2.0 U	1.0 U
trans-1,2-DCE	2.0 U	1.0 U
TCE	2.0 U	1.0 U
VC	2.0 U	0.23 J
X	4.0 U	3.0 U

MW-24-D1	07/12/18 Hydrasleeve	10/16/18 Hydrasleeve
At	80 U	130 U
B	11	8.3
E	7.1 J	6.1
Cumene	8.0 U	5.0 U
MTBE	290	270
T	23	17
trans-1,2-DCE	22	12
TCE	8.0 U	5.0 U
VC	160	22
X	29	25

MW-27-D1	07/13/18 Hydrasleeve	10/18/18 Hydrasleeve
At	20 U	25 U
B	7.8	3.6
E	2.0 U	1.0 U
Cumene	2.0 U	1.0 U
MTBE	62	38
T	1.6 J	1.0
trans-1,2-DCE	4.1	1.0 U
TCE	2.0 U	0.26 J
VC	88	70
X	4.0 U	3.0 U

MW-27-D2	07/13/18 Hydrasleeve	10/18/18 Hydrasleeve
At	40 U	25 U
B	4.0 U	1.0 U
E	4.0 U	1.0 U
Cumene	4.0 U	1.0 U
MTBE	3.4 J	1.0 U
T	4.0 U	1.0 U
trans-1,2-DCE	4.0 U	1.0 U
TCE	4.0 U	1.0 U
VC	4.0 U	1.0 U
X	8.0 U	3.0 U

MW-23D-2R	07/12/18 Hydrasleeve
At	80 U
B	8.0 U
E	8.0 U
Cumene	8.0 U
MTBE	180
T	8.0 U
trans-1,2-DCE	8.0 U
TCE	8.0 U
VC	8.0 U
X	16 U

MW-23D-1R	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	40 U	25 U
B	2.7 J	3.8
E	4.0 U	1.0 U
Cumene	4.0 U	0.56 J
MTBE	91	94
T	4.0 U	1.0 U
trans-1,2-DCE	4.0 U	1.0 U
TCE	4.0 U	1.0 U
VC	4.0 U	1.0
X	8.0 U	3.0 U

AMW-14-D1	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	80 U	25 U
B	5.3 J	0.98 J
E	7.5 J	1.0
Cumene	8.0 U	1.0 U
MTBE	160	120
T	8.0 U	0.27 J
trans-1,2-DCE	8.0	1.0 U
TCE	8.0 U	1.0 U
VC	8.0 U	32
X	16	1.8 J

AMW-14-D2	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	20 U	25 U
B	2.0 U	1.0 U
E	2.0 U	1.0 U
Cumene	2.0 U	1.0 U
MTBE	62	44
T	2.0 U	1.0 U
trans-1,2-DCE	2.0 U	1.0 U
TCE	2.0 U	1.0 U
VC	2.0 U	1.0 U
X	4.0 U	3.0 U

AMW-14-VD	07/12/18 Hydrasleeve	10/17/18 Hydrasleeve
At	10 U	25 U
B	1.0 U	1.0 U
E	1.0 U	1.0 U
Cumene	1.0 U	1.0 U
MTBE	0.49 J	1.0 U
T	1.0 U	1.0 U
trans-1,2-DCE	1.0 U	1.0 U
TCE	1.0 U	1.0 U
VC	1.0 U	1.0 U
X	2.0 U	3.0 U

AMW-7	07/11/18 Hydrasleeve	10/17/18 Hydrasleeve
At	20 U	8.1 J
B	0.82 J	0.78 J
E	2.0 U	0.19 J
Cumene	7.1	4.9
MTBE	2.0 U	1.0 U
T	1.0 J	0.60 J
trans-1,2-DCE	2.0 U	1.0 U
TCE	2.0 U	1.0 U
VC	2.0 U	1.0 U
X	4.0 U	0.61 J

MW-26-D1	07/13/18 Hydrasleeve	10/17/18 Hydrasleeve
At	20 U	25 U
B	17	4.9
E	3.5	0.95 J
Cumene	2.0 U	0.43 J
MTBE	220 E	110
T	2.0 U	0.23 J
trans-1,2-DCE	2.0 U	1.0 U
TCE	2.0 U	1.0 U
VC	13	1.0 U
X	4.0 U	3.0 U

MW-26-D2	10/17/18 Hydrasleeve
At	25 U
B	0.69 J
E	0.39 J
Cumene	1.0 U
MTBE	76
T	1.0 U
trans-1,2-DCE	1.0 U
TCE	1.0 U
VC	1.0 U
X	3.0 U

MW-28-D1	10/17/18 Hydrasleeve
At	9.3 J
B	5.6
E	1.4
Cumene	0.33 J
MTBE	9.5
T	0.39 J
trans-1,2-DCE	1.0 U
TCE	1.0 U
VC	1.0 U
X	2.6 J

MW-28-D2R	07/13/18 Hydrasleeve	10/17/18 Hydrasleeve
At	40 U	25 U
B	4.0 U	1.0 U
E	4.0 U	1.0 U
Cumene	4.0 U	1.0 U
MTBE	4.0 U	1.0 U
T	4.0 U	1.0 U
trans-1,2-DCE	4.0 U	1.0 U
TCE	4.0 U	1.0 U
VC	4.0 U	1.0 U
X	8.0 U	3.0 U

MW-29-D1	07/13/18 Hydrasleeve	10/18/18 Hydrasleeve
At	40 U	25 U
B	5.2	3.7
E	4.0 U	0.31 J
Cumene	19	16
MTBE	39	33
T	3.0 J	2.8
trans-1,2-DCE	4.0 U	1.0 U
TCE	4.0 U	1.0 U
VC	4.0 U	1.0 U
X	5.5 J	8.1

COSTCO
MW-18R
MW-DR
MW-32D
OW-3-D1
OW-1-D1
IW-2-D1
MW-24-D2
MW-24-D1
OW-2-D1
MW-27-D1
MW-27-D2
AMW-15-D2
AMW-3
AMW-15-VD
AMW-15-D1
AMW-15-D3
AMW-14-D1
MW-23-D1R
MW-23-D2R
AMW-14-D2
AMW-13-D1
AMW-14-VD
AMW-13-D2
AMW-13-VD
MW-30-D2
MW-30-VD
MW-31-D2R
MW-31-D1R
MW-30-D1
AMW-7
MW-26-D1
MW-26-VD
MW-26-D2
MW-28-D2R
MW-28-D1
MW-29-VD
MW-29-D2
MW-29-D1
HAMPTON ROAD
Hampton Rd
Industrial Dr

0 37.5 75 150 Feet
1 inch = 75 feet

Map Coordinate System:
NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Chevron Facility 6518040
3705 Hampton Rd
Oceanside, NY

Recent TOGS Exceedances in Groundwater
July and October 2018

drawn SGK	checked	approved	figure no. 5
date 11/13/2018	date	date	
job no. 320967.01.17.A.695A.9404.0100		file no. GW_Chem_3Q18	

initials	date	revision

leidos

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-143644-1
Client Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY
Sampling Event: MNA Analysis
Revision: 1

For:
Leidos, Inc.
6310 Allentown Boulevard
Harrisburg, Pennsylvania 17112

Attn: Mr. Andrew J Haselhoff

Authorized for release by:
11/8/2018 3:43:26 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Job ID: 480-143644-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-143644-1

Revision
This report has been revised to change the clint ID from .MW-24-01-W-181017 to MW-24-D1-W-181017.

Receipt
The samples were received on 10/18/2018 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-24-D1-W-181017 (480-143644-1) and AMW-15-D1-W-181017 (480-143644-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 490-553010 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24-D1-W-181017 (480-143644-1) and MW-24-D2-W-181017 (480-143644-2). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24-VD-W-181017 (480-143644-3), MW-23D-1R-W-181017 (480-143644-4), AMW-15-D1-W-181017 (480-143644-5), AMW-15-D3-W-181017 (480-143644-6), AMW-15-D2-W-181017 (480-143644-7) and AMW-15-VD-W-181017 (480-143644-8). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24-D1-W-181017 (480-143644-1), MW-24-VD-W-181017 (480-143644-3), MW-23D-1R-W-181017 (480-143644-4) and AMW-15-VD-W-181017 (480-143644-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-24-D1-W-181017 (480-143644-1). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24-D2-W-181017 (480-143644-2), MW-23D-1R-W-181017 (480-143644-4), AMW-15-D1-W-181017 (480-143644-5), AMW-15-D3-W-181017 (480-143644-6) and AMW-15-D2-W-181017 (480-143644-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-441087/43) recovered above the upper control limit for Total Sodium. The sample associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-24-D2-W-181017 (480-143644-2) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Job ID: 480-143644-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 353.2: The following sample was received outside of holding time: MW-24-D1-W-181017 (480-143644-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: MW-24-D1-W-181017 — Lab Sample ID: 480-143644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.3		5.0	1.0	ug/L	5		8260C	Total/NA
Carbon disulfide	1.4	J	5.0	1.1	ug/L	5		8260C	Total/NA
Ethylbenzene	6.1		5.0	0.95	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	270		5.0	0.85	ug/L	5		8260C	Total/NA
Toluene	17		5.0	0.85	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	12		5.0	1.2	ug/L	5		8260C	Total/NA
Vinyl chloride	22		5.0	0.90	ug/L	5		8260C	Total/NA
Xylenes, Total	25		15	2.9	ug/L	5		8260C	Total/NA
Carbon dioxide	59000		5000	1900	ug/L	1		RSK-175	Total/NA
Ethene	550	J	620	130	ug/L	88		RSK-175	Total/NA
Methane	6000		350	88	ug/L	88		RSK-175	Total/NA
Iron	2.9		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.091		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1070		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2370		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	75.3		40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	583		70.0	28.0	mg/L	7		310.2	Total/NA
Total Organic Carbon	20.0		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.9		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	56.4		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-24-D2-W-181017 — Lab Sample ID: 480-143644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8	J	25	2.7	ug/L	1		8260C	Total/NA
Carbon disulfide	0.24	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.52	J	1.0	0.21	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.0		1.0	0.17	ug/L	1		8260C	Total/NA
Vinyl chloride	0.23	J	1.0	0.18	ug/L	1		8260C	Total/NA
Carbon dioxide	5700		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	370		88	22	ug/L	22		RSK-175	Total/NA
Iron	0.61		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.032		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	108	^	1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	201		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	29.9		10.0	1.7	mg/L	5		300.0	Total/NA
Alkalinity, Total	102		20.0	8.0	mg/L	2		310.2	Total/NA
Total Organic Carbon	7.7		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.61		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	0.80	J	1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-24-VD-W-181017 — Lab Sample ID: 480-143644-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.64	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.28	J	1.0	0.21	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.9		1.0	0.17	ug/L	1		8260C	Total/NA
Vinyl chloride	0.55	J	1.0	0.18	ug/L	1		8260C	Total/NA
Carbon dioxide	79000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	120		4.0	1.0	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: MW-24-VD-W-181017 (Continued) — Lab Sample ID: 480-143644-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.74		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	8730		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	13100		250	141	mg/L	500		300.0	Total/NA
Sulfate	1300		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	416		50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	3.5		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	26.1		0.10	0.075	mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-23D-1R-W-181017 — Lab Sample ID: 480-143644-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.8		1.0	0.20	ug/L	1		8260C	Total/NA
Carbon disulfide	0.29	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.7		1.0	0.21	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.56	J	1.0	0.33	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	94		1.0	0.17	ug/L	1		8260C	Total/NA
Vinyl chloride	1.0		1.0	0.18	ug/L	1		8260C	Total/NA
Carbon dioxide	63000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	3600		350	88	ug/L	88		RSK-175	Total/NA
Iron	1.9		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.93		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1220		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2260		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	177		40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	360		50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	16.8		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	1.9		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	25.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-D1-W-181017 — Lab Sample ID: 480-143644-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.5	J	5.0	1.2	ug/L	5		8260C	Total/NA
Benzene	12		5.0	1.0	ug/L	5		8260C	Total/NA
Carbon disulfide	1.7	J	5.0	1.1	ug/L	5		8260C	Total/NA
Cyclohexane	2.8	J	25	0.65	ug/L	5		8260C	Total/NA
Ethylbenzene	5.0		5.0	0.95	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	170		5.0	0.85	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.2	J	25	0.45	ug/L	5		8260C	Total/NA
Toluene	1.5	J	5.0	0.85	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	21		5.0	1.2	ug/L	5		8260C	Total/NA
Xylenes, Total	19		15	2.9	ug/L	5		8260C	Total/NA
Carbon dioxide	40000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	5100		350	88	ug/L	88		RSK-175	Total/NA
Iron	3.9		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.32		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	989		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	1910		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	188		40.0	7.0	mg/L	20		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: AMW-15-D1-W-181017 (Continued) — Lab Sample ID: 480-143644-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	442		60.0	24.0	mg/L	6		310.2	Total/NA
Nitrate as N	0.079		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	24.5		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	3.8		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.12	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	56.0		2.0	1.3	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-D3-W-181017 — Lab Sample ID: 480-143644-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.42	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.44	J	1.0	0.21	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	10		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	3.5		1.0	0.20	ug/L	1		8260C	Total/NA
Carbon dioxide	100000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	2800		88	22	ug/L	22		RSK-175	Total/NA
Iron	0.26		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.20		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2610		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	7380		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	916		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	108		20.0	8.0	mg/L	2		310.2	Total/NA
Total Organic Carbon	7.7		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.26		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	35.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-D2-W-181017 — Lab Sample ID: 480-143644-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.34	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.26	J	1.0	0.21	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	120		1.0	0.17	ug/L	1		8260C	Total/NA
Carbon dioxide	110000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	560		180	44	ug/L	44		RSK-175	Total/NA
Iron	0.75		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.055		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2130		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3790		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	262	B	100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	461		50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	8.5		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.75		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	48.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-VD-W-181017 — Lab Sample ID: 480-143644-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.3		1.0	0.17	ug/L	1		8260C	Total/NA
Carbon dioxide	37000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	27		4.0	1.0	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMW-15-VD-W-181017 (Continued) Lab Sample ID: 480-143644-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	10.7		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.31		0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	8770		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	13200		250	141	mg/L	500		300.0	Total/NA
Sulfate	1530	B	200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	271		30.0	12.0	mg/L	3		310.2	Total/NA
Total Organic Carbon	2.9		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	10.7		0.10	0.075	mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-24-D1-W-181017
Date Collected: 10/16/18 11:40
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-1
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 22:02	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 22:02	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	0.75	ug/L			10/26/18 22:02	5
1,1,2-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 22:02	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/26/18 22:02	5
1,1-Dichloroethene	5.0	U	5.0	1.3	ug/L			10/26/18 22:02	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.0	ug/L			10/26/18 22:02	5
1,2-Dibromo-3-Chloropropane	50	U	50	4.7	ug/L			10/26/18 22:02	5
1,2-Dibromoethane	5.0	U	5.0	1.1	ug/L			10/26/18 22:02	5
1,2-Dichlorobenzene	5.0	U	5.0	0.95	ug/L			10/26/18 22:02	5
1,2-Dichloroethane	5.0	U	5.0	1.0	ug/L			10/26/18 22:02	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/26/18 22:02	5
1,3-Dichlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 22:02	5
1,4-Dichlorobenzene	5.0	U	5.0	0.85	ug/L			10/26/18 22:02	5
2-Butanone (MEK)	250	U	250	13	ug/L			10/26/18 22:02	5
2-Hexanone	50	U	50	6.4	ug/L			10/26/18 22:02	5
4-Methyl-2-pentanone (MIBK)	50	U	50	4.1	ug/L			10/26/18 22:02	5
Acetone	130	U	130	13	ug/L			10/26/18 22:02	5
Benzene	**8.3**		5.0	1.0	ug/L			10/26/18 22:02	5
Bromodichloromethane	5.0	U	5.0	0.85	ug/L			10/26/18 22:02	5
Bromoform	5.0	U	5.0	1.5	ug/L			10/26/18 22:02	5
Bromomethane	5.0	U	5.0	1.8	ug/L			10/26/18 22:02	5
Carbon disulfide	**1.4**	**J**	5.0	1.1	ug/L			10/26/18 22:02	5
Carbon tetrachloride	5.0	U	5.0	0.90	ug/L			10/26/18 22:02	5
Chlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 22:02	5
Chloroethane	5.0	U	5.0	1.8	ug/L			10/26/18 22:02	5
Chloroform	5.0	U	5.0	1.2	ug/L			10/26/18 22:02	5
Chloromethane	5.0	U	5.0	1.8	ug/L			10/26/18 22:02	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.1	ug/L			10/26/18 22:02	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 22:02	5
Cyclohexane	25	U	25	0.65	ug/L			10/26/18 22:02	5
Dibromochloromethane	5.0	U	5.0	1.3	ug/L			10/26/18 22:02	5
Dichlorodifluoromethane	5.0	U	5.0	0.85	ug/L			10/26/18 22:02	5
Ethylbenzene	**6.1**		5.0	0.95	ug/L			10/26/18 22:02	5
Isopropylbenzene	5.0	U	5.0	1.7	ug/L			10/26/18 22:02	5
Methyl acetate	50	U	50	2.9	ug/L			10/26/18 22:02	5
Methyl tert-butyl ether	**270**		5.0	0.85	ug/L			10/26/18 22:02	5
Methylcyclohexane	25	U	25	0.45	ug/L			10/26/18 22:02	5
Methylene Chloride	25	U	25	5.0	ug/L			10/26/18 22:02	5
Styrene	5.0	U	5.0	1.4	ug/L			10/26/18 22:02	5
Tetrachloroethene	5.0	U	5.0	0.70	ug/L			10/26/18 22:02	5
Toluene	**17**		5.0	0.85	ug/L			10/26/18 22:02	5
trans-1,2-Dichloroethene	**12**		5.0	1.2	ug/L			10/26/18 22:02	5
trans-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 22:02	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			10/26/18 22:02	5
Trichlorofluoromethane	5.0	U *	5.0	1.1	ug/L			10/26/18 22:02	5
Vinyl chloride	**22**		5.0	0.90	ug/L			10/26/18 22:02	5
Xylenes, Total	**25**		15	2.9	ug/L			10/26/18 22:02	5

Client Sample ID: MW-24-D1-W-181017 — Lab Sample ID: 480-143644-1

Date Collected: 10/16/18 11:40 Matrix: Ground Water
Date Received: 10/18/18 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		10/26/18 22:02	5
4-Bromofluorobenzene (Surr)	90		70 - 130		10/26/18 22:02	5
Dibromofluoromethane (Surr)	108		70 - 130		10/26/18 22:02	5
Toluene-d8 (Surr)	95		70 - 130		10/26/18 22:02	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	59000		5000	1900	ug/L			10/20/18 18:42	1
Ethane	660	U	660	130	ug/L			10/29/18 13:51	88
Ethene	550	J	620	130	ug/L			10/29/18 13:51	88
Methane	6000		350	88	ug/L			10/29/18 13:51	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.9		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 15:58	1
Manganese	0.091		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 15:58	1
Sodium	1070		2.0	0.65	mg/L		10/20/18 09:16	10/23/18 12:08	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		50.0	28.2	mg/L			10/31/18 15:03	100
Sulfate	75.3		40.0	7.0	mg/L			10/26/18 21:32	20
Alkalinity, Total	583		70.0	28.0	mg/L			10/30/18 18:31	7
Nitrate as N	0.050	U H	0.050	0.020	mg/L			10/18/18 18:30	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			10/18/18 18:30	1
Total Organic Carbon	20.0		1.0	0.43	mg/L			11/02/18 08:46	1
Ferric Iron	2.9		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF F1	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	56.4		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-24-D2-W-181017 — Lab Sample ID: 480-143644-2

Date Collected: 10/17/18 00:10 Matrix: Water
Date Received: 10/18/18 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 18:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 18:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 18:51	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 18:51	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 18:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 18:51	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 18:51	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 18:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 18:51	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 18:51	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 18:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 18:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 18:51	1

Client Sample ID: MW-24-D2-W-181017
Date Collected: 10/17/18 00:10
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 18:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 18:51	1
Acetone	**2.8**	**J**	25	2.7	ug/L			10/26/18 18:51	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 18:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 18:51	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 18:51	1
Carbon disulfide	**0.24**	**J**	1.0	0.22	ug/L			10/26/18 18:51	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 18:51	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 18:51	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 18:51	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 18:51	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 18:51	1
cis-1,2-Dichloroethene	**0.52**	**J**	1.0	0.21	ug/L			10/26/18 18:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 18:51	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 18:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 18:51	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 18:51	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 18:51	1
Methyl tert-butyl ether	**2.0**		1.0	0.17	ug/L			10/26/18 18:51	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 18:51	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 18:51	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 18:51	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 18:51	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 18:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 18:51	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 18:51	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 18:51	1
Vinyl chloride	**0.23**	**J**	1.0	0.18	ug/L			10/26/18 18:51	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/26/18 18:51*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/26/18 18:51*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/26/18 18:51*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/26/18 18:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	5700		5000	1900	ug/L			10/20/18 18:51	1
Ethane	170	U	170	33	ug/L			10/29/18 15:52	22
Ethene	150	U	150	33	ug/L			10/29/18 15:52	22
Methane	370		88	22	ug/L			10/29/18 15:52	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.61		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:01	1

Client Sample ID: MW-24-D2-W-181017

Lab Sample ID: 480-143644-2
Matrix: Water
Date Collected: 10/17/18 00:10
Date Received: 10/18/18 10:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.032		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:01	1
Sodium	108	^	1.0	0.32	mg/L		10/20/18 09:16	10/22/18 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		2.5	1.4	mg/L			10/26/18 21:40	5
Sulfate	29.9		10.0	1.7	mg/L			10/26/18 21:40	5
Alkalinity, Total	102		20.0	8.0	mg/L			10/31/18 14:46	2
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:31	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:31	1
Total Organic Carbon	7.7		1.0	0.43	mg/L			10/30/18 03:16	1
Ferric Iron	0.61		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	0.80	J	1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-24-VD-W-181017

Lab Sample ID: 480-143644-3
Matrix: Water
Date Collected: 10/17/18 00:35
Date Received: 10/18/18 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 19:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:18	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 19:18	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 19:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 19:18	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 19:18	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 19:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 19:18	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 19:18	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 19:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 19:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 19:18	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 19:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 19:18	1
Acetone	25	U	25	2.7	ug/L			10/26/18 19:18	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 19:18	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 19:18	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 19:18	1
Carbon disulfide	0.64	J	1.0	0.22	ug/L			10/26/18 19:18	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 19:18	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 19:18	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 19:18	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 19:18	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 19:18	1
cis-1,2-Dichloroethene	0.28	J	1.0	0.21	ug/L			10/26/18 19:18	1

Client Sample ID: MW-24-VD-W-181017
Date Collected: 10/17/18 00:35
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 19:18	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 19:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 19:18	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 19:18	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 19:18	1
Methyl tert-butyl ether	**2.9**		1.0	0.17	ug/L			10/26/18 19:18	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 19:18	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 19:18	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 19:18	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 19:18	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 19:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 19:18	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 19:18	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 19:18	1
Vinyl chloride	**0.55**	**J**	1.0	0.18	ug/L			10/26/18 19:18	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/26/18 19:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/26/18 19:18*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/26/18 19:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/26/18 19:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**79000**		5000	1900	ug/L			10/20/18 18:59	1
Ethane	7.5	U	7.5	1.5	ug/L			10/30/18 12:50	1
Ethene	7.0	U	7.0	1.5	ug/L			10/30/18 12:50	1
Methane	**120**		4.0	1.0	ug/L			10/30/18 12:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**26.1**		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:05	1
Manganese	**0.74**		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:05	1
Sodium	**8730**		20.0	6.5	mg/L		10/20/18 09:16	10/23/18 12:12	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13100**		250	141	mg/L			10/31/18 15:32	500
Sulfate	**1300**		200	34.9	mg/L			10/26/18 18:53	100
Alkalinity, Total	**416**		50.0	20.0	mg/L			10/31/18 15:00	5
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:32	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:32	1
Total Organic Carbon	**3.5**		1.0	0.43	mg/L			10/30/18 06:34	1
Ferric Iron	**26.1**		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-23D-1R-W-181017
Date Collected: 10/17/18 00:55
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 19:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 19:46	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 19:46	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 19:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 19:46	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 19:46	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 19:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 19:46	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 19:46	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 19:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 19:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 19:46	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 19:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 19:46	1
Acetone	25	U	25	2.7	ug/L			10/26/18 19:46	1
Benzene	**3.8**		1.0	0.20	ug/L			10/26/18 19:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 19:46	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 19:46	1
Carbon disulfide	**0.29**	**J**	1.0	0.22	ug/L			10/26/18 19:46	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 19:46	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 19:46	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 19:46	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 19:46	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 19:46	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.21	ug/L			10/26/18 19:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 19:46	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 19:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 19:46	1
Isopropylbenzene	**0.56**	**J**	1.0	0.33	ug/L			10/26/18 19:46	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 19:46	1
Methyl tert-butyl ether	**94**		1.0	0.17	ug/L			10/26/18 19:46	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 19:46	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 19:46	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 19:46	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 19:46	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 19:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 19:46	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 19:46	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 19:46	1
Vinyl chloride	**1.0**		1.0	0.18	ug/L			10/26/18 19:46	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 19:46	1

Client Sample ID: MW-23D-1R-W-181017

Lab Sample ID: 480-143644-4
Matrix: Water

Date Collected: 10/17/18 00:55
Date Received: 10/18/18 10:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/26/18 19:46*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/26/18 19:46*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/26/18 19:46*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/26/18 19:46*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	63000		5000	1900	ug/L			10/20/18 19:08	1
Ethane	660	U	660	130	ug/L			10/29/18 16:30	88
Ethene	620	U	620	130	ug/L			10/29/18 16:30	88
Methane	3600		350	88	ug/L			10/29/18 16:30	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:09	1
Manganese	0.93		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:09	1
Sodium	1220		2.0	0.65	mg/L		10/20/18 09:16	10/23/18 12:16	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		50.0	28.2	mg/L			10/31/18 15:47	100
Sulfate	177		40.0	7.0	mg/L			10/26/18 19:08	20
Alkalinity, Total	360		50.0	20.0	mg/L			10/31/18 15:00	5
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:33	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:33	1
Total Organic Carbon	16.8		1.0	0.43	mg/L			11/02/18 12:04	1
Ferric Iron	1.9		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	25.2		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-15-D1-W-181017

Lab Sample ID: 480-143644-5
Matrix: Water

Date Collected: 10/17/18 01:40
Date Received: 10/18/18 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 21:35	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 21:35	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	0.75	ug/L			10/26/18 21:35	5
1,1,2-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 21:35	5
1,1-Dichloroethane	1.5	J	5.0	1.2	ug/L			10/26/18 21:35	5
1,1-Dichloroethene	5.0	U	5.0	1.3	ug/L			10/26/18 21:35	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.0	ug/L			10/26/18 21:35	5
1,2-Dibromo-3-Chloropropane	50	U	50	4.7	ug/L			10/26/18 21:35	5
1,2-Dibromoethane	5.0	U	5.0	1.1	ug/L			10/26/18 21:35	5
1,2-Dichlorobenzene	5.0	U	5.0	0.95	ug/L			10/26/18 21:35	5
1,2-Dichloroethane	5.0	U	5.0	1.0	ug/L			10/26/18 21:35	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/26/18 21:35	5
1,3-Dichlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 21:35	5
1,4-Dichlorobenzene	5.0	U	5.0	0.85	ug/L			10/26/18 21:35	5
2-Butanone (MEK)	250	U	250	13	ug/L			10/26/18 21:35	5

Client Sample ID: AMW-15-D1-W-181017
Date Collected: 10/17/18 01:40
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	50	U	50	6.4	ug/L			10/26/18 21:35	5
4-Methyl-2-pentanone (MIBK)	50	U	50	4.1	ug/L			10/26/18 21:35	5
Acetone	130	U	130	13	ug/L			10/26/18 21:35	5
Benzene	**12**		5.0	1.0	ug/L			10/26/18 21:35	5
Bromodichloromethane	5.0	U	5.0	0.85	ug/L			10/26/18 21:35	5
Bromoform	5.0	U	5.0	1.5	ug/L			10/26/18 21:35	5
Bromomethane	5.0	U	5.0	1.8	ug/L			10/26/18 21:35	5
Carbon disulfide	**1.7**	**J**	5.0	1.1	ug/L			10/26/18 21:35	5
Carbon tetrachloride	5.0	U	5.0	0.90	ug/L			10/26/18 21:35	5
Chlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 21:35	5
Chloroethane	5.0	U	5.0	1.8	ug/L			10/26/18 21:35	5
Chloroform	5.0	U	5.0	1.2	ug/L			10/26/18 21:35	5
Chloromethane	5.0	U	5.0	1.8	ug/L			10/26/18 21:35	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.1	ug/L			10/26/18 21:35	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 21:35	5
Cyclohexane	**2.8**	**J**	25	0.65	ug/L			10/26/18 21:35	5
Dibromochloromethane	5.0	U	5.0	1.3	ug/L			10/26/18 21:35	5
Dichlorodifluoromethane	5.0	U	5.0	0.85	ug/L			10/26/18 21:35	5
Ethylbenzene	**5.0**		5.0	0.95	ug/L			10/26/18 21:35	5
Isopropylbenzene	5.0	U	5.0	1.7	ug/L			10/26/18 21:35	5
Methyl acetate	50	U	50	2.9	ug/L			10/26/18 21:35	5
Methyl tert-butyl ether	**170**		5.0	0.85	ug/L			10/26/18 21:35	5
Methylcyclohexane	**1.2**	**J**	25	0.45	ug/L			10/26/18 21:35	5
Methylene Chloride	25	U	25	5.0	ug/L			10/26/18 21:35	5
Styrene	5.0	U	5.0	1.4	ug/L			10/26/18 21:35	5
Tetrachloroethene	5.0	U	5.0	0.70	ug/L			10/26/18 21:35	5
Toluene	**1.5**	**J**	5.0	0.85	ug/L			10/26/18 21:35	5
trans-1,2-Dichloroethene	**21**		5.0	1.2	ug/L			10/26/18 21:35	5
trans-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 21:35	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			10/26/18 21:35	5
Trichlorofluoromethane	5.0	U *	5.0	1.1	ug/L			10/26/18 21:35	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			10/26/18 21:35	5
Xylenes, Total	**19**		15	2.9	ug/L			10/26/18 21:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/26/18 21:35*	*5*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/26/18 21:35*	*5*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/26/18 21:35*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/26/18 21:35*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	40000		5000	1900	ug/L			10/20/18 19:17	1
Ethane	660	U	660	130	ug/L			10/29/18 16:49	88
Ethene	620	U	620	130	ug/L			10/29/18 16:49	88
Methane	5100		350	88	ug/L			10/29/18 16:49	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.9		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:13	1

Client Sample ID: AMW-15-D1-W-181017

Lab Sample ID: 480-143644-5
Matrix: Water
Date Collected: 10/17/18 01:40
Date Received: 10/18/18 10:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:13	1
Sodium	989		2.0	0.65	mg/L		10/20/18 09:16	10/23/18 12:19	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		10.0	5.6	mg/L			10/26/18 19:22	20
Sulfate	188		40.0	7.0	mg/L			10/26/18 19:22	20
Alkalinity, Total	442		60.0	24.0	mg/L			10/31/18 16:44	6
Nitrate as N	0.079		0.050	0.020	mg/L			10/18/18 21:08	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 21:08	1
Total Organic Carbon	24.5		1.0	0.43	mg/L			11/02/18 12:33	1
Ferric Iron	3.8		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.12	HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	56.0		2.0	1.3	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-15-D3-W-181017

Lab Sample ID: 480-143644-6
Matrix: Water
Date Collected: 10/17/18 02:00
Date Received: 10/18/18 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 20:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:13	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 20:13	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 20:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 20:13	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 20:13	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 20:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 20:13	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 20:13	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 20:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 20:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 20:13	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 20:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 20:13	1
Acetone	25	U	25	2.7	ug/L			10/26/18 20:13	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 20:13	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 20:13	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 20:13	1
Carbon disulfide	0.42	J	1.0	0.22	ug/L			10/26/18 20:13	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 20:13	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 20:13	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 20:13	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 20:13	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 20:13	1
cis-1,2-Dichloroethene	0.44	J	1.0	0.21	ug/L			10/26/18 20:13	1

Client Sample ID: AMW-15-D3-W-181017
Date Collected: 10/17/18 02:00
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 20:13	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 20:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 20:13	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 20:13	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 20:13	1
Methyl tert-butyl ether	**10**		1.0	0.17	ug/L			10/26/18 20:13	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 20:13	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 20:13	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 20:13	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 20:13	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 20:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 20:13	1
Trichloroethene	**3.5**		1.0	0.20	ug/L			10/26/18 20:13	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 20:13	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 20:13	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/26/18 20:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/26/18 20:13*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/26/18 20:13*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/26/18 20:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	100000		5000	1900	ug/L			10/20/18 19:26	1
Ethane	170	U	170	33	ug/L			10/29/18 17:08	22
Ethene	150	U	150	33	ug/L			10/29/18 17:08	22
Methane	**2800**		88	22	ug/L			10/29/18 17:08	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.26**		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:17	1
Manganese	**0.20**		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:17	1
Sodium	**2610**		5.0	1.6	mg/L		10/20/18 09:16	10/23/18 12:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7380**		50.0	28.2	mg/L			10/26/18 19:37	100
Sulfate	**916**		200	34.9	mg/L			10/26/18 19:37	100
Alkalinity, Total	**108**		20.0	8.0	mg/L			10/31/18 14:48	2
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:35	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:35	1
Total Organic Carbon	**7.7**		1.0	0.43	mg/L			11/02/18 13:01	1
Ferric Iron	**0.26**		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	**35.6**		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-15-D2-W-181017
Date Collected: 10/17/18 02:20
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 20:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 20:40	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 20:40	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 20:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 20:40	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 20:40	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 20:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 20:40	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 20:40	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 20:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 20:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 20:40	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 20:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 20:40	1
Acetone	25	U	25	2.7	ug/L			10/26/18 20:40	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 20:40	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 20:40	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 20:40	1
Carbon disulfide	**0.34**	**J**	1.0	0.22	ug/L			10/26/18 20:40	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 20:40	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 20:40	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 20:40	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 20:40	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 20:40	1
cis-1,2-Dichloroethene	**0.26**	**J**	1.0	0.21	ug/L			10/26/18 20:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 20:40	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 20:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 20:40	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 20:40	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 20:40	1
Methyl tert-butyl ether	**120**		1.0	0.17	ug/L			10/26/18 20:40	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 20:40	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 20:40	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 20:40	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 20:40	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 20:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 20:40	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 20:40	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 20:40	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 20:40	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 20:40	1

Client Sample ID: AMW-15-D2-W-181017

Lab Sample ID: 480-143644-7
Matrix: Water
Date Collected: 10/17/18 02:20
Date Received: 10/18/18 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		10/26/18 20:40	1
4-Bromofluorobenzene (Surr)	90		70 - 130		10/26/18 20:40	1
Dibromofluoromethane (Surr)	111		70 - 130		10/26/18 20:40	1
Toluene-d8 (Surr)	95		70 - 130		10/26/18 20:40	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000		5000	1900	ug/L			10/20/18 19:34	1
Ethane	330	U	330	66	ug/L			10/29/18 17:26	44
Ethene	310	U	310	66	ug/L			10/29/18 17:26	44
Methane	560		180	44	ug/L			10/29/18 17:26	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.75		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:32	1
Manganese	0.055		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:32	1
Sodium	2130		5.0	1.6	mg/L		10/20/18 09:16	10/23/18 12:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3790		25.0	14.1	mg/L			10/26/18 21:04	50
Sulfate	262	B	100	17.5	mg/L			10/26/18 21:04	50
Alkalinity, Total	461		50.0	20.0	mg/L			10/31/18 15:00	5
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:36	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:38	1
Total Organic Carbon	8.5		1.0	0.43	mg/L			11/02/18 13:30	1
Ferric Iron	0.75		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	48.0		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-15-VD-W-181017

Lab Sample ID: 480-143644-8
Matrix: Water
Date Collected: 10/17/18 02:40
Date Received: 10/18/18 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 21:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 21:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 21:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 21:07	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 21:07	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 21:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 21:07	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 21:07	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 21:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 21:07	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 21:07	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 21:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 21:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 21:07	1

Client Sample ID: AMW-15-VD-W-181017
Date Collected: 10/17/18 02:40
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 21:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 21:07	1
Acetone	25	U	25	2.7	ug/L			10/26/18 21:07	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 21:07	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 21:07	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 21:07	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 21:07	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 21:07	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 21:07	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 21:07	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 21:07	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 21:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 21:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 21:07	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 21:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 21:07	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 21:07	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 21:07	1
Methyl tert-butyl ether	**1.3**		1.0	0.17	ug/L			10/26/18 21:07	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 21:07	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 21:07	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 21:07	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 21:07	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 21:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 21:07	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 21:07	1
Trichlorofluoromethane	1.0	U *	1.0	0.21	ug/L			10/26/18 21:07	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 21:07	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/26/18 21:07*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*10/26/18 21:07*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/26/18 21:07*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/26/18 21:07*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	37000		5000	1900	ug/L			10/20/18 19:43	1
Ethane	7.5	U	7.5	1.5	ug/L			10/30/18 13:09	1
Ethene	7.0	U	7.0	1.5	ug/L			10/30/18 13:09	1
Methane	27		4.0	1.0	ug/L			10/30/18 13:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10.7		0.050	0.019	mg/L		10/20/18 09:16	10/22/18 16:36	1

Client Sample ID: AMW-15-VD-W-181017
Date Collected: 10/17/18 02:40
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-8
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 16:36	1
Sodium	8770		20.0	6.5	mg/L		10/20/18 09:16	10/23/18 12:31	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13200		250	141	mg/L			10/31/18 17:14	500
Sulfate	1530	B	200	34.9	mg/L			10/26/18 21:19	100
Alkalinity, Total	271		30.0	12.0	mg/L			10/31/18 14:37	3
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:38	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 18:39	1
Total Organic Carbon	2.9		1.0	0.43	mg/L			10/30/18 08:57	1
Ferric Iron	10.7		0.10	0.075	mg/L			11/03/18 14:51	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Surrogate Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-130)	BFB (70-130)	DBFM (70-130)	TOL (70-130)
480-143644-1	MW-24-D1-W-181017	100	90	108	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-130)	BFB (70-130)	DBFM (70-130)	TOL (70-130)
480-143644-2	MW-24-D2-W-181017	100	90	111	97
480-143644-3	MW-24-VD-W-181017	108	90	105	96
480-143644-4	MW-23D-1R-W-181017	101	89	108	95
480-143644-5	AMW-15-D1-W-181017	101	89	106	95
480-143644-6	AMW-15-D3-W-181017	104	90	113	95
480-143644-7	AMW-15-D2-W-181017	102	90	111	95
480-143644-8	AMW-15-VD-W-181017	108	88	109	95
LCS 490-553010/3	Lab Control Sample	99	94	104	99
LCSD 490-553010/4	Lab Control Sample Dup	96	94	100	99
MB 490-553010/7	Method Blank	101	89	106	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-553010/7
Matrix: Water
Analysis Batch: 553010

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 14:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 14:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 14:45	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 14:45	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 14:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 14:45	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 14:45	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 14:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 14:45	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 14:45	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 14:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 14:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 14:45	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 14:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 14:45	1
Acetone	25	U	25	2.7	ug/L			10/26/18 14:45	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 14:45	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 14:45	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 14:45	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 14:45	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 14:45	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 14:45	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 14:45	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 14:45	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 14:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 14:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 14:45	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 14:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 14:45	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 14:45	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 14:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 14:45	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 14:45	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 14:45	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 14:45	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 14:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 14:45	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 14:45	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 14:45	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 14:45	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/26/18 14:45*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/26/18 14:45*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/26/18 14:45*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/26/18 14:45*	*1*

Lab Sample ID: LCS 490-553010/3
Matrix: Water
Analysis Batch: 553010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	78 - 135
1,1,2,2-Tetrachloroethane	20.0	21.5		ug/L		107	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.9		ug/L		109	77 - 129
1,1,2-Trichloroethane	20.0	21.5		ug/L		107	80 - 124
1,1-Dichloroethane	20.0	19.4		ug/L		97	78 - 125
1,1-Dichloroethene	20.0	21.5		ug/L		107	79 - 124
1,2,4-Trichlorobenzene	20.0	22.4		ug/L		112	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	23.8		ug/L		119	54 - 125
1,2-Dibromoethane	20.0	22.0		ug/L		110	80 - 129
1,2-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 121
1,2-Dichloroethane	20.0	19.7		ug/L		98	77 - 121
1,2-Dichloropropane	20.0	17.5		ug/L		88	75 - 120
1,3-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 122
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120
2-Butanone (MEK)	100	105		ug/L		105	62 - 133
2-Hexanone	100	91.8		ug/L		92	60 - 142
4-Methyl-2-pentanone (MIBK)	100	91.8		ug/L		92	60 - 137
Acetone	100	99.6		ug/L		100	54 - 145
Benzene	20.0	19.3		ug/L		97	80 - 121
Bromodichloromethane	20.0	20.8		ug/L		104	75 - 129
Bromoform	20.0	23.2		ug/L		116	46 - 145
Bromomethane	20.0	16.2		ug/L		81	41 - 150
Carbon disulfide	20.0	18.9		ug/L		95	77 - 126
Carbon tetrachloride	20.0	21.9		ug/L		110	64 - 147
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Chloroethane	20.0	19.7		ug/L		98	72 - 120
Chloroform	20.0	20.4		ug/L		102	73 - 129
Chloromethane	20.0	16.8		ug/L		84	12 - 150
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	76 - 125
cis-1,3-Dichloropropene	20.0	19.3		ug/L		97	74 - 140
Cyclohexane	20.0	17.5		ug/L		87	73 - 122
Dibromochloromethane	20.0	22.2		ug/L		111	69 - 133
Dichlorodifluoromethane	20.0	23.1		ug/L		115	37 - 127
Ethylbenzene	20.0	19.9		ug/L		99	80 - 130
Isopropylbenzene	20.0	20.8		ug/L		104	80 - 141
Methyl acetate	40.0	33.6		ug/L		84	64 - 150
Methyl tert-butyl ether	20.0	20.0		ug/L		100	72 - 133
Methylcyclohexane	20.0	19.6		ug/L		98	71 - 129
Methylene Chloride	20.0	19.8		ug/L		99	79 - 123
Styrene	20.0	20.4		ug/L		102	80 - 127
Tetrachloroethene	20.0	22.5		ug/L		113	80 - 126
Toluene	20.0	20.0		ug/L		100	80 - 126
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	79 - 126

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

Lab Sample ID: LCS 490-553010/3
Matrix: Water
Analysis Batch: 553010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 134
Trichloroethene	20.0	22.3		ug/L		111	80 - 123
Trichlorofluoromethane	20.0	25.0	*	ug/L		125	65 - 124
Vinyl chloride	20.0	19.9		ug/L		100	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 490-553010/4
Matrix: Water
Analysis Batch: 553010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.6		ug/L		103	78 - 135	2	15
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		109	69 - 131	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/L		108	77 - 129	1	16
1,1,2-Trichloroethane	20.0	22.3		ug/L		111	80 - 124	4	13
1,1-Dichloroethane	20.0	19.6		ug/L		98	78 - 125	1	17
1,1-Dichloroethene	20.0	22.1		ug/L		111	79 - 124	3	20
1,2,4-Trichlorobenzene	20.0	23.0		ug/L		115	63 - 133	3	15
1,2-Dibromo-3-Chloropropane	20.0	23.8		ug/L		119	54 - 125	0	19
1,2-Dibromoethane	20.0	22.7		ug/L		114	80 - 129	3	13
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 121	1	12
1,2-Dichloroethane	20.0	19.8		ug/L		99	77 - 121	1	13
1,2-Dichloropropane	20.0	17.7		ug/L		88	75 - 120	1	15
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 122	1	13
1,4-Dichlorobenzene	20.0	22.1		ug/L		111	80 - 120	5	12
2-Butanone (MEK)	100	111		ug/L		111	62 - 133	5	19
2-Hexanone	100	96.8		ug/L		97	60 - 142	5	17
4-Methyl-2-pentanone (MIBK)	100	96.9		ug/L		97	60 - 137	5	21
Acetone	100	104		ug/L		104	54 - 145	4	23
Benzene	20.0	19.1		ug/L		96	80 - 121	1	12
Bromodichloromethane	20.0	21.2		ug/L		106	75 - 129	2	14
Bromoform	20.0	23.8		ug/L		119	46 - 145	2	14
Bromomethane	20.0	19.5		ug/L		98	41 - 150	19	19
Carbon disulfide	20.0	19.1		ug/L		95	77 - 126	1	16
Carbon tetrachloride	20.0	20.7		ug/L		103	64 - 147	6	16
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120	3	12
Chloroethane	20.0	19.9		ug/L		100	72 - 120	1	15
Chloroform	20.0	20.9		ug/L		105	73 - 129	2	14
Chloromethane	20.0	17.1		ug/L		85	12 - 150	2	20
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	76 - 125	1	15
cis-1,3-Dichloropropene	20.0	19.3		ug/L		97	74 - 140	0	15
Cyclohexane	20.0	17.9		ug/L		90	73 - 122	2	16

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

Lab Sample ID: LCSD 490-553010/4
Matrix: Water
Analysis Batch: 553010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	20.0	22.6		ug/L		113	69 - 133	2	13
Dichlorodifluoromethane	20.0	23.4		ug/L		117	37 - 127	1	16
Ethylbenzene	20.0	20.2		ug/L		101	80 - 130	1	12
Isopropylbenzene	20.0	21.1		ug/L		106	80 - 141	1	13
Methyl acetate	40.0	35.0		ug/L		87	64 - 150	4	18
Methyl tert-butyl ether	20.0	20.1		ug/L		100	72 - 133	0	16
Methylcyclohexane	20.0	19.9		ug/L		99	71 - 129	1	17
Methylene Chloride	20.0	20.3		ug/L		101	79 - 123	2	15
Styrene	20.0	20.9		ug/L		104	80 - 127	3	12
Tetrachloroethene	20.0	22.8		ug/L		114	80 - 126	1	17
Toluene	20.0	20.4		ug/L		102	80 - 126	2	13
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	79 - 126	1	15
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	63 - 134	2	13
Trichloroethene	20.0	22.7		ug/L		113	80 - 123	2	14
Trichlorofluoromethane	20.0	25.1	*	ug/L		125	65 - 124	0	22
Vinyl chloride	20.0	19.9		ug/L		99	68 - 120	0	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-135538/24
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	5000	U	5000	1900	ug/L			10/20/18 17:15	1

Lab Sample ID: LCS 200-135538/22
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	42400		ug/L		106	70 - 130

Lab Sample ID: LCSD 200-135538/23
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon dioxide	40000	40800		ug/L		102	70 - 130	4	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 480-442266/3
Matrix: Water
Analysis Batch: 442266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/29/18 10:02	1
Ethene	7.0	U	7.0	1.5	ug/L			10/29/18 10:02	1
Methane	4.0	U	4.0	1.0	ug/L			10/29/18 10:02	1

Lab Sample ID: LCS 480-442266/4
Matrix: Water
Analysis Batch: 442266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.5	14.0		ug/L		96	79 - 120
Ethene	13.5	13.0		ug/L		96	85 - 120
Methane	7.67	7.56		ug/L		99	85 - 120

Lab Sample ID: LCSD 480-442266/5
Matrix: Water
Analysis Batch: 442266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.5	14.0		ug/L		96	79 - 120	0	50
Ethene	13.5	13.1		ug/L		97	85 - 120	1	50
Methane	7.67	7.53		ug/L		98	85 - 120	0	50

Lab Sample ID: MB 480-442313/4
Matrix: Water
Analysis Batch: 442313

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/29/18 13:34	1
Ethene	7.0	U	7.0	1.5	ug/L			10/29/18 13:34	1
Methane	4.0	U	4.0	1.0	ug/L			10/29/18 13:34	1

Lab Sample ID: LCS 480-442313/5
Matrix: Water
Analysis Batch: 442313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.5	15.4		ug/L		106	79 - 120
Ethene	13.5	15.0		ug/L		111	85 - 120
Methane	7.67	7.50		ug/L		98	85 - 120

Lab Sample ID: LCSD 480-442313/6
Matrix: Water
Analysis Batch: 442313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.5	15.3		ug/L		106	79 - 120	1	50
Ethene	13.5	14.7		ug/L		109	85 - 120	2	50
Methane	7.67	7.54		ug/L		98	85 - 120	0	50

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 480-442485/4
Matrix: Water
Analysis Batch: 442485

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/30/18 11:16	1
Ethene	7.0	U	7.0	1.5	ug/L			10/30/18 11:16	1
Methane	4.0	U	4.0	1.0	ug/L			10/30/18 11:16	1

Lab Sample ID: LCS 480-442485/5
Matrix: Water
Analysis Batch: 442485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.5	13.9		ug/L		96	79 - 120
Ethene	13.5	13.6		ug/L		101	85 - 120
Methane	7.67	7.09		ug/L		92	85 - 120

Lab Sample ID: LCSD 480-442485/6
Matrix: Water
Analysis Batch: 442485

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.5	14.2		ug/L		98	79 - 120	2	50
Ethene	13.5	13.8		ug/L		102	85 - 120	1	50
Methane	7.67	7.22		ug/L		94	85 - 120	2	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-440597/1-A
Matrix: Water
Analysis Batch: 441087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050	0.019	mg/L		10/20/18 09:16	10/22/18 15:00	1
Manganese	0.0030	U	0.0030	0.00040	mg/L		10/20/18 09:16	10/22/18 15:00	1
Sodium	1.0	U	1.0	0.32	mg/L		10/20/18 09:16	10/22/18 15:00	1

Lab Sample ID: LCS 480-440597/2-A
Matrix: Water
Analysis Batch: 441087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.06		mg/L		101	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Sodium	10.0	9.73		mg/L		97	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-441915/28
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/26/18 20:50	1
Sulfate	0.368	J	2.0	0.35	mg/L			10/26/18 20:50	1

Lab Sample ID: MB 480-441915/4
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/26/18 15:00	1
Sulfate	2.0	U	2.0	0.35	mg/L			10/26/18 15:00	1

Lab Sample ID: LCS 480-441915/27
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.17		mg/L		98	90 - 110
Sulfate	50.0	47.36		mg/L		95	90 - 110

Lab Sample ID: LCS 480-441915/3
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.77		mg/L		98	90 - 110
Sulfate	50.0	48.24		mg/L		96	90 - 110

Lab Sample ID: 480-143644-6 MS
Matrix: Water
Analysis Batch: 441915

Client Sample ID: AMW-15-D3-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7380		5000	11820	E	mg/L		89	81 - 120
Sulfate	916		5000	5500		mg/L		92	80 - 120

Lab Sample ID: MB 480-441923/28
Matrix: Water
Analysis Batch: 441923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/26/18 19:05	1
Sulfate	2.0	U	2.0	0.35	mg/L			10/26/18 19:05	1

Lab Sample ID: LCS 480-441923/27
Matrix: Water
Analysis Batch: 441923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.21		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-441923/27
Matrix: Water
Analysis Batch: 441923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	47.91		mg/L		96	90 - 110

Lab Sample ID: 480-143644-2 MS
Matrix: Water
Analysis Batch: 441923

Client Sample ID: MW-24-D2-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	201		250	436.7		mg/L		94	81 - 120
Sulfate	29.9		250	264.9		mg/L		94	80 - 120

Lab Sample ID: MB 480-442714/28
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/31/18 17:00	1
Sulfate	0.436	J	2.0	0.35	mg/L			10/31/18 17:00	1

Lab Sample ID: MB 480-442714/4
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/31/18 11:09	1
Sulfate	0.541	J	2.0	0.35	mg/L			10/31/18 11:09	1

Lab Sample ID: LCS 480-442714/27
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.39		mg/L		99	90 - 110
Sulfate	50.0	48.36		mg/L		97	90 - 110

Lab Sample ID: LCS 480-442714/3
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.21		mg/L		98	90 - 110
Sulfate	50.0	48.25		mg/L		97	90 - 110

Lab Sample ID: 480-143644-4 MS
Matrix: Water
Analysis Batch: 442714

Client Sample ID: MW-23D-1R-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2260		5000	7196		mg/L		99	81 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-442655/30
Matrix: Water
Analysis Batch: 442655

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/30/18 18:03	1

Lab Sample ID: MB 480-442655/62
Matrix: Water
Analysis Batch: 442655

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/30/18 18:24	1

Lab Sample ID: LCS 480-442655/31
Matrix: Water
Analysis Batch: 442655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.51		mg/L		105	90 - 110

Lab Sample ID: LCS 480-442655/63
Matrix: Water
Analysis Batch: 442655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.60		mg/L		109	90 - 110

Lab Sample ID: MB 480-442924/110
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.04	J	10.0	4.0	mg/L			10/31/18 16:41	1

Lab Sample ID: MB 480-442924/119
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 16:44	1

Lab Sample ID: MB 480-442924/27
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.07	J	10.0	4.0	mg/L			10/31/18 14:01	1

Lab Sample ID: MB 480-442924/39
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	5.74	J	10.0	4.0	mg/L			10/31/18 14:16	1

Lab Sample ID: MB 480-442924/52
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 14:26	1

Lab Sample ID: MB 480-442924/69
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 14:36	1

Lab Sample ID: MB 480-442924/74
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 14:43	1

Lab Sample ID: MB 480-442924/86
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 14:58	1

Lab Sample ID: LCS 480-442924/111
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.13		mg/L		104	90 - 110

Lab Sample ID: LCS 480-442924/120
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.19		mg/L		102	90 - 110

Lab Sample ID: LCS 480-442924/28
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.49		mg/L		105	90 - 110

Lab Sample ID: LCS 480-442924/40
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.45		mg/L		109	90 - 110

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-442924/53
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.59		mg/L		103	90 - 110

Lab Sample ID: LCS 480-442924/70
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.21		mg/L		100	90 - 110

Lab Sample ID: LCS 480-442924/75
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.24		mg/L		106	90 - 110

Lab Sample ID: LCS 480-442924/87
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.96		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-440383/27
Matrix: Water
Analysis Batch: 440383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 21:29	1

Lab Sample ID: MB 480-440383/3
Matrix: Water
Analysis Batch: 440383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/18/18 21:03	1

Lab Sample ID: LCS 480-440383/28
Matrix: Water
Analysis Batch: 440383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.58		mg/L		105	90 - 110

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 480-440383/4
Matrix: Water
Analysis Batch: 440383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.60		mg/L		107	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-442938/4
Matrix: Water
Analysis Batch: 442938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			10/29/18 23:02	1

Lab Sample ID: LCS 480-442938/5
Matrix: Water
Analysis Batch: 442938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	61.48		mg/L		102	90 - 110

Lab Sample ID: MB 480-443441/4
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			11/02/18 04:34	1

Lab Sample ID: MB 480-443441/51
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			11/03/18 03:12	1

Lab Sample ID: LCS 480-443441/5
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.72		mg/L		101	90 - 110

Lab Sample ID: LCS 480-443441/52
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	61.21		mg/L		102	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-443332/27
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.10	U	0.10	0.075	mg/L			11/02/18 11:55	1

Lab Sample ID: MB 480-443332/3
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.10	U	0.10	0.075	mg/L			11/02/18 11:55	1

Lab Sample ID: LCS 480-443332/28
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: LCS 480-443332/4
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.97		mg/L		98	90 - 110

Lab Sample ID: 480-143644-1 MS
Matrix: Ground Water
Analysis Batch: 443332

Client Sample ID: MW-24-D1-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.10	U HF F1	1.00	1.55	F1	mg/L		155	70 - 130

Lab Sample ID: 480-143644-1 DU
Matrix: Ground Water
Analysis Batch: 443332

Client Sample ID: MW-24-D1-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.10	U HF F1	0.10	U	mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-440938/27
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: MB 480-440938/3
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Lab Sample ID: LCS 480-440938/28
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.00	9.20		mg/L		102	90 - 110

Lab Sample ID: LCS 480-440938/4
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.00	9.20		mg/L		102	90 - 110

Lab Sample ID: 480-143644-3 MS
Matrix: Water
Analysis Batch: 440938

Client Sample ID: MW-24-VD-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	1.0	U	2.75	2.40		mg/L		87	40 - 150

Lab Sample ID: 480-143644-1 DU
Matrix: Ground Water
Analysis Batch: 440938

Client Sample ID: MW-24-D1-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	56.4		56.80		mg/L		0.7	20

QC Association Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

GC/MS VOA

Analysis Batch: 553010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	8260C	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	8260C	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	8260C	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	8260C	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	8260C	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	8260C	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	8260C	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	8260C	
MB 490-553010/7	Method Blank	Total/NA	Water	8260C	
LCS 490-553010/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-553010/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 135538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	RSK-175	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	RSK-175	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	RSK-175	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	RSK-175	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	RSK-175	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	RSK-175	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	RSK-175	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	RSK-175	
MB 200-135538/24	Method Blank	Total/NA	Water	RSK-175	
LCS 200-135538/22	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-135538/23	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 442266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	RSK-175	
MB 480-442266/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-442266/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-442266/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 442313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	RSK-175	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	RSK-175	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	RSK-175	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	RSK-175	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	RSK-175	
MB 480-442313/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-442313/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-442313/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 442485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	RSK-175	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 442485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-442485/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-442485/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-442485/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 440597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	3005A	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	3005A	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	3005A	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	3005A	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	3005A	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	3005A	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	3005A	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	3005A	
MB 480-440597/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-440597/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 441087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	6010C	440597
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	6010C	440597
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	6010C	440597
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	6010C	440597
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	6010C	440597
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	6010C	440597
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	6010C	440597
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	6010C	440597
MB 480-440597/1-A	Method Blank	Total/NA	Water	6010C	440597
LCS 480-440597/2-A	Lab Control Sample	Total/NA	Water	6010C	440597

Analysis Batch: 441166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	6010C	440597
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	6010C	440597
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	6010C	440597
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	6010C	440597
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	6010C	440597
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	6010C	440597
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	6010C	440597

General Chemistry

Analysis Batch: 440382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	353.2	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	353.2	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	353.2	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 440382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	353.2	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	353.2	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	353.2	

Analysis Batch: 440383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	353.2	
MB 480-440383/27	Method Blank	Total/NA	Water	353.2	
MB 480-440383/3	Method Blank	Total/NA	Water	353.2	
LCS 480-440383/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-440383/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 440386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	353.2	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	353.2	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	353.2	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	353.2	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	353.2	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	353.2	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	353.2	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	353.2	

Analysis Batch: 440938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	SM 4500 S2 F	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	SM 4500 S2 F	
MB 480-440938/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-440938/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-440938/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-440938/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-143644-3 MS	MW-24-VD-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143644-1 DU	MW-24-D1-W-181017	Total/NA	Ground Water	SM 4500 S2 F	

Analysis Batch: 441915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	300.0	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	300.0	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	300.0	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	300.0	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	300.0	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	300.0	
MB 480-441915/28	Method Blank	Total/NA	Water	300.0	
MB 480-441915/4	Method Blank	Total/NA	Water	300.0	
LCS 480-441915/27	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 441915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-441915/3	Lab Control Sample	Total/NA	Water	300.0	
480-143644-6 MS	AMW-15-D3-W-181017	Total/NA	Water	300.0	

Analysis Batch: 441923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	300.0	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	300.0	
MB 480-441923/28	Method Blank	Total/NA	Water	300.0	
LCS 480-441923/27	Lab Control Sample	Total/NA	Water	300.0	
480-143644-2 MS	MW-24-D2-W-181017	Total/NA	Water	300.0	

Analysis Batch: 442655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	310.2	
MB 480-442655/30	Method Blank	Total/NA	Water	310.2	
MB 480-442655/62	Method Blank	Total/NA	Water	310.2	
LCS 480-442655/31	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442655/63	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 442714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	300.0	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	300.0	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	300.0	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	300.0	
MB 480-442714/28	Method Blank	Total/NA	Water	300.0	
MB 480-442714/4	Method Blank	Total/NA	Water	300.0	
LCS 480-442714/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-442714/3	Lab Control Sample	Total/NA	Water	300.0	
480-143644-4 MS	MW-23D-1R-W-181017	Total/NA	Water	300.0	

Analysis Batch: 442924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	310.2	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	310.2	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	310.2	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	310.2	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	310.2	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	310.2	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	310.2	
MB 480-442924/110	Method Blank	Total/NA	Water	310.2	
MB 480-442924/119	Method Blank	Total/NA	Water	310.2	
MB 480-442924/27	Method Blank	Total/NA	Water	310.2	
MB 480-442924/39	Method Blank	Total/NA	Water	310.2	
MB 480-442924/52	Method Blank	Total/NA	Water	310.2	
MB 480-442924/69	Method Blank	Total/NA	Water	310.2	
MB 480-442924/74	Method Blank	Total/NA	Water	310.2	
MB 480-442924/86	Method Blank	Total/NA	Water	310.2	
LCS 480-442924/111	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/120	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/28	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 442924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-442924/40	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/53	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/70	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/75	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/87	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 442938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	9060A	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	9060A	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	9060A	
MB 480-442938/4	Method Blank	Total/NA	Water	9060A	
LCS 480-442938/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 443332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	SM 3500 FE D	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	SM 3500 FE D	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	SM 3500 FE D	
MB 480-443332/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-443332/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-443332/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-443332/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-143644-1 MS	MW-24-D1-W-181017	Total/NA	Ground Water	SM 3500 FE D	
480-143644-1 DU	MW-24-D1-W-181017	Total/NA	Ground Water	SM 3500 FE D	

Analysis Batch: 443441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	9060A	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	9060A	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	9060A	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	9060A	
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	9060A	
MB 480-443441/4	Method Blank	Total/NA	Water	9060A	
MB 480-443441/51	Method Blank	Total/NA	Water	9060A	
LCS 480-443441/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-443441/52	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 443457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-1	MW-24-D1-W-181017	Total/NA	Ground Water	SM 3500	
480-143644-2	MW-24-D2-W-181017	Total/NA	Water	SM 3500	
480-143644-3	MW-24-VD-W-181017	Total/NA	Water	SM 3500	
480-143644-4	MW-23D-1R-W-181017	Total/NA	Water	SM 3500	
480-143644-5	AMW-15-D1-W-181017	Total/NA	Water	SM 3500	
480-143644-6	AMW-15-D3-W-181017	Total/NA	Water	SM 3500	

General Chemistry (Continued)

Analysis Batch: 443457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143644-7	AMW-15-D2-W-181017	Total/NA	Water	SM 3500	
480-143644-8	AMW-15-VD-W-181017	Total/NA	Water	SM 3500	

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: MW-24-D1-W-181017

Date Collected: 10/16/18 11:40
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	553010	10/26/18 22:02	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 18:42	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	442266	10/29/18 13:51	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 15:58	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		2	441166	10/23/18 12:08	LMH	TAL BUF
Total/NA	Analysis	300.0		100	442714	10/31/18 15:03	DMR	TAL BUF
Total/NA	Analysis	300.0		20	441923	10/26/18 21:32	DMR	TAL BUF
Total/NA	Analysis	310.2		7	442655	10/30/18 18:31	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:30	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:30	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 08:46	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-24-D2-W-181017

Date Collected: 10/17/18 00:10
Date Received: 10/18/18 10:00

Lab Sample ID: 480-143644-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 18:51	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 18:51	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442313	10/29/18 15:52	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:01	LMH	TAL BUF
Total/NA	Analysis	300.0		5	441923	10/26/18 21:40	DMR	TAL BUF
Total/NA	Analysis	310.2		2	442924	10/31/18 14:46	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:31	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:31	DCB	TAL BUF
Total/NA	Analysis	9060A		1	442938	10/30/18 03:16	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-24-VD-W-181017

Lab Sample ID: 480-143644-3

Date Collected: 10/17/18 00:35
Matrix: Water
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 19:18	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 18:59	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	442485	10/30/18 12:50	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:05	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		20	441166	10/23/18 12:12	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441915	10/26/18 18:53	DMR	TAL BUF
Total/NA	Analysis	300.0		500	442714	10/31/18 15:32	DMR	TAL BUF
Total/NA	Analysis	310.2		5	442924	10/31/18 15:00	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:32	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:32	DCB	TAL BUF
Total/NA	Analysis	9060A		1	442938	10/30/18 06:34	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-23D-1R-W-181017

Lab Sample ID: 480-143644-4

Date Collected: 10/17/18 00:55
Matrix: Water
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 19:46	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 19:08	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	442313	10/29/18 16:30	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:09	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		2	441166	10/23/18 12:16	LMH	TAL BUF
Total/NA	Analysis	300.0		20	441915	10/26/18 19:08	DMR	TAL BUF
Total/NA	Analysis	300.0		100	442714	10/31/18 15:47	DMR	TAL BUF
Total/NA	Analysis	310.2		5	442924	10/31/18 15:00	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:33	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:33	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 12:04	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: AMW-15-D1-W-181017

Lab Sample ID: 480-143644-5
Matrix: Water

Date Collected: 10/17/18 01:40
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	553010	10/26/18 21:35	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 19:17	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	442313	10/29/18 16:49	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:13	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		2	441166	10/23/18 12:19	LMH	TAL BUF
Total/NA	Analysis	300.0		20	441915	10/26/18 19:22	DMR	TAL BUF
Total/NA	Analysis	310.2		6	442924	10/31/18 16:44	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 21:08	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440383	10/18/18 21:08	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 12:33	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: AMW-15-D3-W-181017

Lab Sample ID: 480-143644-6
Matrix: Water

Date Collected: 10/17/18 02:00
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 20:13	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 19:26	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442313	10/29/18 17:08	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:17	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		5	441166	10/23/18 12:23	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441915	10/26/18 19:37	DMR	TAL BUF
Total/NA	Analysis	310.2		2	442924	10/31/18 14:48	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:35	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:35	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 13:01	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Client Sample ID: AMW-15-D2-W-181017

Lab Sample ID: 480-143644-7
Matrix: Water

Date Collected: 10/17/18 02:20
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 20:40	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 19:34	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	442313	10/29/18 17:26	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:32	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		5	441166	10/23/18 12:27	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441915	10/26/18 21:04	DMR	TAL BUF
Total/NA	Analysis	310.2		5	442924	10/31/18 15:00	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:36	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:38	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 13:30	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: AMW-15-VD-W-181017

Lab Sample ID: 480-143644-8
Matrix: Water

Date Collected: 10/17/18 02:40
Date Received: 10/18/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	553010	10/26/18 21:07	RP	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 19:43	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	442485	10/30/18 13:09	BEK	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		1	441087	10/22/18 16:36	LMH	TAL BUF
Total/NA	Prep	3005A			440597	10/20/18 09:16	JMP	TAL BUF
Total/NA	Analysis	6010C		20	441166	10/23/18 12:31	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441915	10/26/18 21:19	DMR	TAL BUF
Total/NA	Analysis	300.0		500	442714	10/31/18 17:14	DMR	TAL BUF
Total/NA	Analysis	310.2		3	442924	10/31/18 14:37	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440386	10/18/18 18:38	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440382	10/18/18 18:39	DCB	TAL BUF
Total/NA	Analysis	9060A		1	442938	10/30/18 08:57	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 14:51	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500		Ground Water	Ferric Iron
SM 3500		Water	Ferric Iron
SM 3500 FE D		Ground Water	Ferrous Iron
SM 3500 FE D		Water	Ferrous Iron

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10391	04-01-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
RSK-175		Ground Water	Carbon dioxide
RSK-175		Water	Carbon dioxide

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11342	03-31-19

Method Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 3500	Iron, Ferric	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143644-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-143644-1	MW-24-D1-W-181017	Ground Water	10/16/18 11:40	10/18/18 10:00
480-143644-2	MW-24-D2-W-181017	Water	10/17/18 00:10	10/18/18 10:00
480-143644-3	MW-24-VD-W-181017	Water	10/17/18 00:35	10/18/18 10:00
480-143644-4	MW-23D-1R-W-181017	Water	10/17/18 00:55	10/18/18 10:00
480-143644-5	AMW-15-D1-W-181017	Water	10/17/18 01:40	10/18/18 10:00
480-143644-6	AMW-15-D3-W-181017	Water	10/17/18 02:00	10/18/18 10:00
480-143644-7	AMW-15-D2-W-181017	Water	10/17/18 02:20	10/18/18 10:00
480-143644-8	AMW-15-VD-W-181017	Water	10/17/18 02:40	10/18/18 10:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

180504
Harrisburg, PA

Chain of Custody Record

TestAmerica

Client Information	Sampler: Edwin Ptak	Lab PM: Schove, John R	Carrier Tracking No(s):
Client Contact: ~~Mr. Andrew Haselhoff~~ Edwin Ptak	Phone: 206-276-9248	E-Mail: john.schove@testamericainc.com	

COC No: 480-120057-266
Page: Page 1 of 1
Job #: 480-143644 COC

Company: Leidos, Inc.	
Address: 6310 Allentown Boulevard	Due Date Requested:
City: Harrisburg	TAT Requested (days): standard
State, Zip: PA, 17112	
Phone:	PO #: P010197996
Email: haselhoffa@leidos.com edwin.ptak@leidos.com	WO #: NWENV-06518040-0-08.02
Project Name: MNA Analysis	Project #: 48016199
Site: New York	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2 - Dissolved Gases - CO2	300.0_28D - IC - Sulfate & Chloride	6010C - Metals ICP - Fe, Mn & Na	RSK_175 - Dissolved Gases (GC)	8260C - TCL list OLM04.2	9060A - Organic Carbon, Total (TOC)	SM4500_S2_F - Sulfide, Total	353.2, 353.2_Nitrite, Nitrate_Calc	310.2 - Alkalinity	3500_Fe+3_D_Cal, 3500_FE_D	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	D	A	A	A	CB	N	N	N		
MW-24-D1	10/16/18	1140	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
MW-24-D2	10/17/18	0010	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
MW-24-VD	10/17/18	0035	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
MW-23D-1R	10/17/18	0055	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
AMW-15-D1	10/17/18	0140	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
AMW-15-D3	10/17/18	0200	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
AMW-15-D2	10/17/18	0220	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
AMW-15-VD	10/17/18	0240	G	Water	N		X	X	X	X	X	X	X	X	X	X	18	
				Water														
				Water														
				Water														

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 2 coolers

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by: [signature] Leidos	Date/Time: 10/17/18 1750	Company: Leidos	Received by: [signature]	Date/Time: 10/18/18 1000	Company: TAB	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 2.2, 3.1			

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-143644 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	COC No: 480-45775.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State: Pennsylvania	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-143644-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/30/2018		
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199		
Site: Chevron Oceanside - CVX# 6518040	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2/ Dissolved Gases - CO2	Total Number of containers	Special Instructions/Note:
.MW-24-01-W-181017 (480-143644-1)	10/16/18	11:40 Eastern		Water			X		
MW-24-D2-W-181017 (480-143644-2)	10/17/18	00:10 Eastern		Water			X		
MW-24-VD-W-181017 (480-143644-3)	10/17/18	00:35 Eastern		Water			X		
MW-23D-1R-W-181017 (480-143644-4)	10/17/18	00:55 Eastern		Water			X		
AMW-15-D1-W-181017 (480-143644-5)	10/17/18	01:40 Eastern		Water			X		
AMW-15-D3-W-181017 (480-143644-6)	10/17/18	02:00 Eastern		Water			X		
AMW-15-D2-W-181017 (480-143644-7)	10/17/18	02:20 Eastern		Water			X		
AMW-15-VD-W-181017 (480-143644-8)	10/17/18	02:40 Eastern		Water			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rebecca Terry 1615	Date/Time: 10/19/18	Company TAL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/20/18 1020	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Part # 159469-434 RIT2 EXP 07/19
ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD
AMHERST , NY 14228
UNITED STATES US
SHIP DATE: 19OCT18
ACTWGT: 29.40 LB
CAD: 846654/CAFE3210
DIMS: 22x14x11 IN
BILL RECIPIENT
TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
DEPT: SC
REF: BURLINGTON
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK# 0201 4276 0717 9690
XO BTVA
05403
VT-US BTV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

480-143644 Chain of Custody

Cooler Received/Opened On 10-25-2018 @ 9:25

Time Samples Removed From Cooler 12:28 Time Samples Placed In Storage 17:36 (2 Hour Window)

1. Tracking # 0432 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 14740456 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 3.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? YES...(NO)...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 480
143644

COOLER RECEIPT FORM

Cooler Received/Opened On 10/25/2018 @ 9:25

Time Samples Removed From Cooler 17:28 Time Samples Placed In Storage 17:36 (2 Hour Window)

1. Tracking # 0421 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES) ..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES..(NO)...NA

6. Were custody papers inside cooler? YES..(NO)...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ACB

7. Were custody seals on containers: YES (NO) and intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

● ← Larger than this.

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (Intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Intial) _____

I certify that I attached a label with the unique LIMS number to each container (Intial) _____

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

11/8/2018 (Rev. 1)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 480
143644

COOLER RECEIPT FORM

Cooler Received/Opened On 10/25/2018 @ 0925

Time Samples Removed From Cooler 17:24 Time Samples Placed In Storage 17:36 (2 Hour Window)

1. Tracking # 0469 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17610176 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) 2.2

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) [signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) [signature]

I certify that I attached a label with the unique LIMS number to each container (intial) [signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-143644

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R		COC No: 30-45904.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: Pennsylvania	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York		Job #: 480-143644-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 10/30/2018			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199			
Site: Chevron Oceanside - CVX# 6518040	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/8030C TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
MW-24-01-W-181017 (480-143644-1)	10/16/18	11:40 Eastern		Water			X	3	
MW-24-D2-W-181017 (480-143644-2)	10/17/18	00:10 Eastern		Water			X	3	
MW-24-VD-W-181017 (480-143644-3)	10/17/18	00:35 Eastern		Water			X	3	
MW-23D-1R-W-181017 (480-143644-4)	10/17/18	00:55 Eastern		Water			X	3	
AMW-15-D1-W-181017 (480-143644-5)	10/17/18	01:40 Eastern		Water			X	3	
AMW-15-D3-W-181017 (480-143644-6)	10/17/18	02:00 Eastern		Water			X	3	
AMW-15-D2-W-181017 (480-143644-7)	10/17/18	02:20 Eastern		Water			X	3	
AMW-15-VD-W-181017 (480-143644-8)	10/17/18	02:40 Eastern		Water			X	3	
Trip Blank-W-181017 (480-143644-9)	10/17/18	Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/24/18 1010	Company: TAL	Received by:	Date/Time: 10/25/18 7:25	Company: TA-NAS		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.7, 5.4, 3.1				

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-143644-1

Login Number: 143644
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

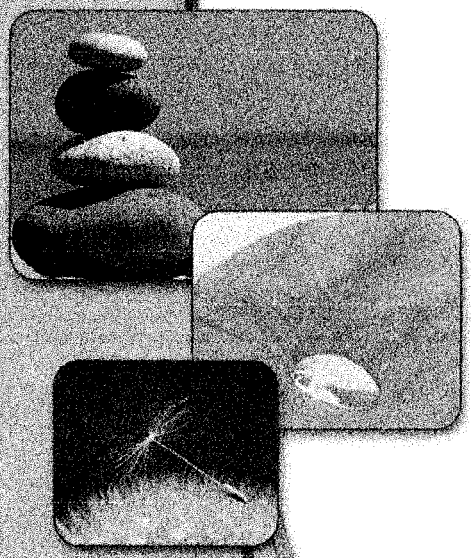
Client: Leidos, Inc.

Job Number: 480-143644-1

Login Number: 143644
List Number: 2
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 10/20/18 12:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	526308
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-143739-1
Client Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

For:
Leidos, Inc.
6310 Allentown Boulevard
Harrisburg, Pennsylvania 17112

Attn: Mr. Andrew J Haselhoff

Authorized for release by:
11/7/2018 6:30:54 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-143739-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-143739-1

Comments
No additional comments.

Receipt
The samples were received on 10/19/2018 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3° C, 2.6° C, 2.9° C and 3.1° C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-552869 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-18R-W-181018 (480-143739-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: AMW-7-W-181018 (480-143739-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: AMW-14-VD-W-181018 (480-143739-1), AMW-14-D1-W-181018 (480-143739-2), AMW-14-D2-W-181018 (480-143739-3), AMW-7-W-181018 (480-143739-4), MW-18R-W-181018 (480-143739-5), MW-26-D1-W-181018 (480-143739-6) and MW-26-D2-W-181018 (480-143739-7). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-28-D1-W-181018 (480-143739-8), MW-28-D2R-W-181018 (480-143739-9), MW-27-D2-W-181018 (480-143739-10), MW-27-D1-W-181018 (480-143739-11) and MW-29-D1-W-181018 (480-143739-12). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: AMW-14-VD-W-181018 (480-143739-1) and MW-28-D2R-W-181018 (480-143739-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: AMW-14-D1-W-181018 (480-143739-2), AMW-14-D2-W-181018 (480-143739-3), AMW-7-W-181018 (480-143739-4), MW-18R-W-181018 (480-143739-5), MW-26-D1-W-181018 (480-143739-6), MW-26-D2-W-181018 (480-143739-7), MW-28-D1-W-181018 (480-143739-8) and MW-28-D2R-W-181018 (480-143739-9). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-27-D2-W-181018 (480-143739-10), MW-27-D1-W-181018 (480-143739-11) and MW-29-D1-W-181018 (480-143739-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Job ID: 480-143739-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: AMW-14-VD-W-181018 (480-143739-1), AMW-14-D1-W-181018 (480-143739-2), AMW-14-D2-W-181018 (480-143739-3), AMW-7-W-181018 (480-143739-4), MW-18R-W-181018 (480-143739-5), MW-26-D1-W-181018 (480-143739-6), MW-26-D2-W-181018 (480-143739-7), MW-28-D1-W-181018 (480-143739-8), MW-28-D2R-W-181018 (480-143739-9), MW-27-D2-W-181018 (480-143739-10), MW-27-D1-W-181018 (480-143739-11) and MW-29-D1-W-181018 (480-143739-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: AMW-14-VD-W-181017 — Lab Sample ID: 480-143739-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	110000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	24		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	18.5		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.39	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	9100		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	16300		250	141	mg/L	500		300.0	Total/NA
Sulfate	1920	B	200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	409	B	50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	2.7		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	18.5		0.10	0.075	mg/L	1		SM 3500	Total/NA

Client Sample ID: AMW-14-D1-W-181017 — Lab Sample ID: 480-143739-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.98	J	1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	1.0		1.0	0.19	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	120		1.0	0.17	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.40	J	5.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.27	J	1.0	0.17	ug/L	1		8260C	Total/NA
Vinyl chloride	32		1.0	0.18	ug/L	1		8260C	Total/NA
Xylenes, Total	1.6	J	3.0	0.58	ug/L	1		8260C	Total/NA
Carbon dioxide	120000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1600		180	44	ug/L	44		RSK-175	Total/NA
Iron	5.0		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.055	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1560		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	3620		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	198	B	100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	673		80.0	32.0	mg/L	8		310.2	Total/NA
Total Organic Carbon	10.8		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	4.7		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.26	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	48.4		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-14-D2-W-181017 — Lab Sample ID: 480-143739-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	44		1.0	0.17	ug/L	1		8260C	Total/NA
Carbon dioxide	150000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	2200		180	44	ug/L	44		RSK-175	Total/NA
Iron	2.7		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.10	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2230		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4510		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	327	B	100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	485	B	60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	11.1		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.7		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	58.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: AMW-7-W-181017 — Lab Sample ID: 480-143739-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.1	J	25	2.7	ug/L	1		8260C	Total/NA
Benzene	0.78	J	1.0	0.20	ug/L	1		8260C	Total/NA
Cyclohexane	29		5.0	0.13	ug/L	1		8260C	Total/NA
Ethylbenzene	0.19	J	1.0	0.19	ug/L	1		8260C	Total/NA
Isopropylbenzene	4.9		1.0	0.33	ug/L	1		8260C	Total/NA
Methylcyclohexane	50		5.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.60	J	1.0	0.17	ug/L	1		8260C	Total/NA
Xylenes, Total	0.61	J	3.0	0.58	ug/L	1		8260C	Total/NA
Carbon dioxide	94000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	5800		180	44	ug/L	44		RSK-175	Total/NA
Iron	12.5		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	2.9	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	168		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	192		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	22.6	B	20.0	3.5	mg/L	10		300.0	Total/NA
Alkalinity, Total	997		150	60.0	mg/L	15		310.2	Total/NA
Total Organic Carbon	30.3		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	12.5		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	1.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-18R-W-181017 — Lab Sample ID: 480-143739-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	70	J	250	13	ug/L	5		8260C	Total/NA
Acetone	230		130	13	ug/L	5		8260C	Total/NA
Benzene	69		5.0	1.0	ug/L	5		8260C	Total/NA
Carbon disulfide	2.4	J	5.0	1.1	ug/L	5		8260C	Total/NA
Cyclohexane	8.3	J	25	0.65	ug/L	5		8260C	Total/NA
Ethylbenzene	1.2	J	5.0	0.95	ug/L	5		8260C	Total/NA
Isopropylbenzene	6.8		5.0	1.7	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	28		5.0	0.85	ug/L	5		8260C	Total/NA
Methylcyclohexane	6.2	J	25	0.45	ug/L	5		8260C	Total/NA
Toluene	4.1	J	5.0	0.85	ug/L	5		8260C	Total/NA
Xylenes, Total	5.2	J	15	2.9	ug/L	5		8260C	Total/NA
Carbon dioxide	11000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	9700		350	88	ug/L	88		RSK-175	Total/NA
Iron	0.45		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.026	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	193		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	259		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	20.0	B	20.0	3.5	mg/L	10		300.0	Total/NA
Alkalinity, Total	365		40.0	16.0	mg/L	4		310.2	Total/NA
Total Organic Carbon	193		10.0	4.3	mg/L	10		9060A	Total/NA
Ferric Iron	0.45		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	11.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-26-D1-W-181017 — Lab Sample ID: 480-143739-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.9		1.0	0.20	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: MW-26-D1-W-181017 (Continued) — Lab Sample ID: 480-143739-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.45	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.42	J	1.0	0.21	ug/L	1		8260C	Total/NA
Ethylbenzene	0.95	J	1.0	0.19	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.43	J	1.0	0.33	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	110		1.0	0.17	ug/L	1		8260C	Total/NA
Toluene	0.23	J	1.0	0.17	ug/L	1		8260C	Total/NA
Carbon dioxide	65000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1800		88	22	ug/L	22		RSK-175	Total/NA
Iron	0.28		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.024	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1510		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2540		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	264	B	100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	416		60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	21.4		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.28		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	28.4		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-26-D2-W-181017 — Lab Sample ID: 480-143739-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.69	J	1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	0.39	J	1.0	0.19	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	76		1.0	0.17	ug/L	1		8260C	Total/NA
Carbon dioxide	110000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1100		88	22	ug/L	22		RSK-175	Total/NA
Iron	0.15		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.052	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2190		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3820		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	361	B	100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	509		60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	9.0		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.15		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	25.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-28-D1-W-181017 — Lab Sample ID: 480-143739-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.3	J	25	2.7	ug/L	1		8260C	Total/NA
Benzene	5.6		1.0	0.20	ug/L	1		8260C	Total/NA
Carbon disulfide	0.47	J	1.0	0.22	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0	0.19	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.33	J	1.0	0.33	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	9.5		1.0	0.17	ug/L	1		8260C	Total/NA
Toluene	0.39	J	1.0	0.17	ug/L	1		8260C	Total/NA
Xylenes, Total	2.6	J	3.0	0.58	ug/L	1		8260C	Total/NA
Carbon dioxide	8900	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1500		180	44	ug/L	44		RSK-175	Total/NA
Iron	0.98		0.050	0.019	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-28-D1-W-181017 (Continued) — Lab Sample ID: 480-143739-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.022	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	386		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	945		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	231		20.0	3.5	mg/L	10		300.0	Total/NA
Alkalinity, Total	102		20.0	8.0	mg/L	2		310.2	Total/NA
Nitrate as N	0.076		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite as N	0.044	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	23.1		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.98		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	7.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-28-D2R-W-181017 — Lab Sample ID: 480-143739-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	140000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	240		88	22	ug/L	22		RSK-175	Total/NA
Iron	2.2		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.71	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	4670		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	9820		250	141	mg/L	500		300.0	Total/NA
Sulfate	1330		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	333		50.0	20.0	mg/L	5		310.2	Total/NA
Nitrate as N	0.26		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.5		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.2		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	3.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-27-D2-W-181018 — Lab Sample ID: 480-143739-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	130000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1200		88	22	ug/L	22		RSK-175	Total/NA
Iron	2.8		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.94	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	3580		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	8300		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	1250		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	195		20.0	8.0	mg/L	2		310.2	Total/NA
Total Organic Carbon	6.5		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.8		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	7.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-27-D1-W-181018 — Lab Sample ID: 480-143739-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.6		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.0		1.0	0.21	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	38		1.0	0.17	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	0.26	J	1.0	0.20	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: MW-27-D1-W-181018 (Continued) — Lab Sample ID: 480-143739-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	70		1.0	0.18	ug/L	1		8260C	Total/NA
Carbon dioxide	150000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	3900		88	22	ug/L	22		RSK-175	Total/NA
Iron	2.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.061	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1770		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	3890		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	183		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	725		90.0	36.0	mg/L	9		310.2	Total/NA
Total Organic Carbon	10.6		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.0		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.091	J HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	63.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-29-D1-W-181018 — Lab Sample ID: 480-143739-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		1.0	0.20	ug/L	1		8260C	Total/NA
Cyclohexane	20		5.0	0.13	ug/L	1		8260C	Total/NA
Ethylbenzene	0.31	J	1.0	0.19	ug/L	1		8260C	Total/NA
Isopropylbenzene	16		1.0	0.33	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	33		1.0	0.17	ug/L	1		8260C	Total/NA
Methylcyclohexane	11		5.0	0.090	ug/L	1		8260C	Total/NA
Toluene	2.8		1.0	0.17	ug/L	1		8260C	Total/NA
Xylenes, Total	8.1		3.0	0.58	ug/L	1		8260C	Total/NA
Carbon dioxide	210000	B	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	19000		880	220	ug/L	220		RSK-175	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.27	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	960		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	1550		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	13.6	J	40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	535		60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	10.9		1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	1.5		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	0.80	J	1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: TRIP BLANK-W-181018 — Lab Sample ID: 480-143739-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: AMW-14-VD-W-181017
Date Collected: 10/17/18 23:55
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 06:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 06:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 06:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 06:46	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 06:46	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 06:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 06:46	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 06:46	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 06:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 06:46	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 06:46	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 06:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 06:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 06:46	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 06:46	1
4-Methyl-2-pentanone (MIBK)	10	U F1	10	0.81	ug/L			10/26/18 06:46	1
Acetone	25	U	25	2.7	ug/L			10/26/18 06:46	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 06:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 06:46	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 06:46	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 06:46	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 06:46	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 06:46	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 06:46	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 06:46	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 06:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 06:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 06:46	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 06:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 06:46	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 06:46	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 06:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 06:46	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 06:46	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 06:46	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 06:46	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 06:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 06:46	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 06:46	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 06:46	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 06:46	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 06:46	1

Client Sample ID: AMW-14-VD-W-181017

Lab Sample ID: 480-143739-1
Matrix: Water
Date Collected: 10/17/18 23:55
Date Received: 10/19/18 10:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		10/26/18 06:46	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/26/18 06:46	1
Dibromofluoromethane (Surr)	96		70 - 130		10/26/18 06:46	1
Toluene-d8 (Surr)	106		70 - 130		10/26/18 06:46	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000	B	5000	1900	ug/L			10/20/18 20:27	1
Ethane	7.5	U	7.5	1.5	ug/L			10/31/18 15:39	1
Ethene	7.0	U	7.0	1.5	ug/L			10/31/18 15:39	1
Methane	24		4.0	1.0	ug/L			10/31/18 15:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18.5		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:29	1
Manganese	0.39	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:29	1
Sodium	9100		20.0	6.5	mg/L		10/24/18 08:27	10/29/18 12:21	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16300		250	141	mg/L			10/31/18 17:58	500
Sulfate	1920	B	200	34.9	mg/L			10/26/18 23:59	100
Alkalinity, Total	409	B	50.0	20.0	mg/L			10/31/18 16:43	5
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:17	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:17	1
Total Organic Carbon	2.7		1.0	0.43	mg/L			11/02/18 13:58	1
Ferric Iron	18.5		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-14-D1-W-181017

Lab Sample ID: 480-143739-2
Matrix: Water
Date Collected: 10/17/18 23:00
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 07:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:13	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 07:13	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 07:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 07:13	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 07:13	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 07:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 07:13	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 07:13	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 07:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 07:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 07:13	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 07:13	1

Client Sample ID: AMW-14-D1-W-181017
Date Collected: 10/17/18 23:00
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 07:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 07:13	1
Acetone	25	U	25	2.7	ug/L			10/26/18 07:13	1
Benzene	**0.98**	**J**	1.0	0.20	ug/L			10/26/18 07:13	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 07:13	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 07:13	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 07:13	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 07:13	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 07:13	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 07:13	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 07:13	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 07:13	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 07:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 07:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 07:13	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 07:13	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 07:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 07:13	1
Ethylbenzene	**1.0**		1.0	0.19	ug/L			10/26/18 07:13	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 07:13	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 07:13	1
Methyl tert-butyl ether	**120**		1.0	0.17	ug/L			10/26/18 07:13	1
Methylcyclohexane	**0.40**	**J**	5.0	0.090	ug/L			10/26/18 07:13	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 07:13	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 07:13	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 07:13	1
Toluene	**0.27**	**J**	1.0	0.17	ug/L			10/26/18 07:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 07:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 07:13	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 07:13	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 07:13	1
Vinyl chloride	**32**		1.0	0.18	ug/L			10/26/18 07:13	1
Xylenes, Total	**1.6**	**J**	3.0	0.58	ug/L			10/26/18 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/26/18 07:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/26/18 07:13*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/26/18 07:13*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/26/18 07:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000	B	5000	1900	ug/L			10/20/18 20:35	1
Ethane	330	U	330	66	ug/L			10/30/18 13:54	44
Ethene	310	U	310	66	ug/L			10/30/18 13:54	44
Methane	1600		180	44	ug/L			10/30/18 13:54	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.0		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:33	1

Client Sample ID: AMW-14-D1-W-181017

Lab Sample ID: 480-143739-2
Matrix: Water

Date Collected: 10/17/18 23:00
Date Received: 10/19/18 10:15

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.055	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:33	1
Sodium	1560		2.0	0.65	mg/L		10/24/18 08:27	10/29/18 12:24	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3620		25.0	14.1	mg/L			10/27/18 00:14	50
Sulfate	198	B	100	17.5	mg/L			10/27/18 00:14	50
Alkalinity, Total	673		80.0	32.0	mg/L			10/31/18 17:02	8
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:18	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:18	1
Total Organic Carbon	10.8		1.0	0.43	mg/L			11/02/18 14:27	1
Ferric Iron	4.7		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.26	HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	48.4		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-14-D2-W-181017

Lab Sample ID: 480-143739-3
Matrix: Water

Date Collected: 10/17/18 23:30
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 07:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 07:40	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 07:40	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 07:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 07:40	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 07:40	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 07:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 07:40	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 07:40	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 07:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 07:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 07:40	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 07:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 07:40	1
Acetone	25	U	25	2.7	ug/L			10/26/18 07:40	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 07:40	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 07:40	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 07:40	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 07:40	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 07:40	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 07:40	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 07:40	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 07:40	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 07:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 07:40	1

Client Sample ID: AMW-14-D2-W-181017
Date Collected: 10/17/18 23:30
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 07:40	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 07:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 07:40	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 07:40	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 07:40	1
Methyl tert-butyl ether	**44**		1.0	0.17	ug/L			10/26/18 07:40	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 07:40	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 07:40	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 07:40	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 07:40	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 07:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 07:40	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 07:40	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 07:40	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 07:40	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/26/18 07:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/26/18 07:40*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/26/18 07:40*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/26/18 07:40*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**150000**	B	5000	1900	ug/L			10/20/18 20:44	1
Ethane	330	U	330	66	ug/L			10/30/18 14:11	44
Ethene	310	U	310	66	ug/L			10/30/18 14:11	44
Methane	**2200**		180	44	ug/L			10/30/18 14:11	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.7**		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:37	1
Manganese	**0.10**	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:37	1
Sodium	**2230**		5.0	1.6	mg/L		10/24/18 08:27	10/29/18 12:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4510**		25.0	14.1	mg/L			10/27/18 00:28	50
Sulfate	**327**	B	100	17.5	mg/L			10/27/18 00:28	50
Alkalinity, Total	**485**	B	60.0	24.0	mg/L			10/31/18 16:43	6
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:19	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:19	1
Total Organic Carbon	**11.1**		1.0	0.43	mg/L			11/02/18 18:42	1
Ferric Iron	**2.7**		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	**58.8**		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: AMW-7-W-181017
Date Collected: 10/17/18 20:45
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 08:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:06	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 08:06	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 08:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 08:06	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 08:06	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 08:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 08:06	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 08:06	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 08:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 08:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 08:06	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 08:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 08:06	1
Acetone	**8.1**	**J**	25	2.7	ug/L			10/26/18 08:06	1
Benzene	**0.78**	**J**	1.0	0.20	ug/L			10/26/18 08:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 08:06	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 08:06	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 08:06	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 08:06	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 08:06	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 08:06	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 08:06	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 08:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 08:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
Cyclohexane	**29**		5.0	0.13	ug/L			10/26/18 08:06	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 08:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
Ethylbenzene	**0.19**	**J**	1.0	0.19	ug/L			10/26/18 08:06	1
Isopropylbenzene	**4.9**		1.0	0.33	ug/L			10/26/18 08:06	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 08:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
Methylcyclohexane	**50**		5.0	0.090	ug/L			10/26/18 08:06	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 08:06	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 08:06	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 08:06	1
Toluene	**0.60**	**J**	1.0	0.17	ug/L			10/26/18 08:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 08:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 08:06	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 08:06	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 08:06	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 08:06	1
Xylenes, Total	**0.61**	**J**	3.0	0.58	ug/L			10/26/18 08:06	1

Client Sample ID: AMW-7-W-181017

Lab Sample ID: 480-143739-4
Matrix: Water

Date Collected: 10/17/18 20:45
Date Received: 10/19/18 10:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		10/26/18 08:06	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/26/18 08:06	1
Dibromofluoromethane (Surr)	103		70 - 130		10/26/18 08:06	1
Toluene-d8 (Surr)	109		70 - 130		10/26/18 08:06	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	94000	B	5000	1900	ug/L			10/20/18 20:53	1
Ethane	330	U	330	66	ug/L			10/30/18 14:29	44
Ethene	310	U	310	66	ug/L			10/30/18 14:29	44
Methane	5800		180	44	ug/L			10/30/18 14:29	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12.5		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:40	1
Manganese	2.9	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:40	1
Sodium	168		1.0	0.32	mg/L		10/24/18 08:27	10/27/18 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		5.0	2.8	mg/L			10/27/18 00:43	10
Sulfate	22.6	B	20.0	3.5	mg/L			10/27/18 00:43	10
Alkalinity, Total	997		150	60.0	mg/L			10/31/18 17:03	15
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:20	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:20	1
Total Organic Carbon	30.3		1.0	0.43	mg/L			10/31/18 07:58	1
Ferric Iron	12.5		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	1.6		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-18R-W-181017

Lab Sample ID: 480-143739-5
Matrix: Water

Date Collected: 10/17/18 20:25
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 08:33	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 08:33	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	0.75	ug/L			10/26/18 08:33	5
1,1,2-Trichloroethane	5.0	U	5.0	0.95	ug/L			10/26/18 08:33	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/26/18 08:33	5
1,1-Dichloroethene	5.0	U	5.0	1.3	ug/L			10/26/18 08:33	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.0	ug/L			10/26/18 08:33	5
1,2-Dibromo-3-Chloropropane	50	U	50	4.7	ug/L			10/26/18 08:33	5
1,2-Dibromoethane	5.0	U	5.0	1.1	ug/L			10/26/18 08:33	5
1,2-Dichlorobenzene	5.0	U	5.0	0.95	ug/L			10/26/18 08:33	5
1,2-Dichloroethane	5.0	U	5.0	1.0	ug/L			10/26/18 08:33	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/26/18 08:33	5
1,3-Dichlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 08:33	5
1,4-Dichlorobenzene	5.0	U	5.0	0.85	ug/L			10/26/18 08:33	5
2-Butanone (MEK)	70	J	250	13	ug/L			10/26/18 08:33	5

Client Sample ID: MW-18R-W-181017
Date Collected: 10/17/18 20:25
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	50	U	50	6.4	ug/L			10/26/18 08:33	5
4-Methyl-2-pentanone (MIBK)	50	U	50	4.1	ug/L			10/26/18 08:33	5
Acetone	**230**		130	13	ug/L			10/26/18 08:33	5
Benzene	**69**		5.0	1.0	ug/L			10/26/18 08:33	5
Bromodichloromethane	5.0	U	5.0	0.85	ug/L			10/26/18 08:33	5
Bromoform	5.0	U	5.0	1.5	ug/L			10/26/18 08:33	5
Bromomethane	5.0	U *	5.0	1.8	ug/L			10/26/18 08:33	5
Carbon disulfide	**2.4**	**J**	5.0	1.1	ug/L			10/26/18 08:33	5
Carbon tetrachloride	5.0	U	5.0	0.90	ug/L			10/26/18 08:33	5
Chlorobenzene	5.0	U	5.0	0.90	ug/L			10/26/18 08:33	5
Chloroethane	5.0	U	5.0	1.8	ug/L			10/26/18 08:33	5
Chloroform	5.0	U	5.0	1.2	ug/L			10/26/18 08:33	5
Chloromethane	5.0	U	5.0	1.8	ug/L			10/26/18 08:33	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.1	ug/L			10/26/18 08:33	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 08:33	5
Cyclohexane	**8.3**	**J**	25	0.65	ug/L			10/26/18 08:33	5
Dibromochloromethane	5.0	U	5.0	1.3	ug/L			10/26/18 08:33	5
Dichlorodifluoromethane	5.0	U	5.0	0.85	ug/L			10/26/18 08:33	5
Ethylbenzene	**1.2**	**J**	5.0	0.95	ug/L			10/26/18 08:33	5
Isopropylbenzene	**6.8**		5.0	1.7	ug/L			10/26/18 08:33	5
Methyl acetate	50	U	50	2.9	ug/L			10/26/18 08:33	5
Methyl tert-butyl ether	**28**		5.0	0.85	ug/L			10/26/18 08:33	5
Methylcyclohexane	**6.2**	**J**	25	0.45	ug/L			10/26/18 08:33	5
Methylene Chloride	25	U	25	5.0	ug/L			10/26/18 08:33	5
Styrene	5.0	U	5.0	1.4	ug/L			10/26/18 08:33	5
Tetrachloroethene	5.0	U	5.0	0.70	ug/L			10/26/18 08:33	5
Toluene	**4.1**	**J**	5.0	0.85	ug/L			10/26/18 08:33	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.2	ug/L			10/26/18 08:33	5
trans-1,3-Dichloropropene	5.0	U	5.0	0.85	ug/L			10/26/18 08:33	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			10/26/18 08:33	5
Trichlorofluoromethane	5.0	U	5.0	1.1	ug/L			10/26/18 08:33	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			10/26/18 08:33	5
Xylenes, Total	**5.2**	**J**	15	2.9	ug/L			10/26/18 08:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/26/18 08:33*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/26/18 08:33*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/26/18 08:33*	*5*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/18 08:33*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**11000**	**B**	5000	1900	ug/L			10/20/18 21:02	1
Ethane	660	U	660	130	ug/L			10/30/18 14:46	88
Ethene	620	U	620	130	ug/L			10/30/18 14:46	88
Methane	**9700**		350	88	ug/L			10/30/18 14:46	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.45		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:44	1

Client Sample ID: MW-18R-W-181017

Lab Sample ID: 480-143739-5
Matrix: Water

Date Collected: 10/17/18 20:25
Date Received: 10/19/18 10:15

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.026	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:44	1
Sodium	193		1.0	0.32	mg/L		10/24/18 08:27	10/27/18 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.0	2.8	mg/L			10/27/18 00:58	10
Sulfate	20.0	B	20.0	3.5	mg/L			10/27/18 00:58	10
Alkalinity, Total	365		40.0	16.0	mg/L			10/31/18 15:47	4
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:22	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:22	1
Total Organic Carbon	193		10.0	4.3	mg/L			10/31/18 08:27	10
Ferric Iron	0.45		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	11.6		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-26-D1-W-181017

Lab Sample ID: 480-143739-6
Matrix: Water

Date Collected: 10/17/18 22:05
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 08:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 08:59	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 08:59	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 08:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 08:59	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 08:59	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 08:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 08:59	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 08:59	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 08:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 08:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 08:59	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 08:59	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 08:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 08:59	1
Acetone	25	U	25	2.7	ug/L			10/26/18 08:59	1
Benzene	4.9		1.0	0.20	ug/L			10/26/18 08:59	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 08:59	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 08:59	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 08:59	1
Carbon disulfide	0.45	J	1.0	0.22	ug/L			10/26/18 08:59	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 08:59	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 08:59	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 08:59	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 08:59	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 08:59	1
cis-1,2-Dichloroethene	0.42	J	1.0	0.21	ug/L			10/26/18 08:59	1

Client Sample ID: MW-26-D1-W-181017
Date Collected: 10/17/18 22:05
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 08:59	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 08:59	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 08:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 08:59	1
Ethylbenzene	**0.95**	**J**	1.0	0.19	ug/L			10/26/18 08:59	1
Isopropylbenzene	**0.43**	**J**	1.0	0.33	ug/L			10/26/18 08:59	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 08:59	1
Methyl tert-butyl ether	**110**		1.0	0.17	ug/L			10/26/18 08:59	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 08:59	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 08:59	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 08:59	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 08:59	1
Toluene	**0.23**	**J**	1.0	0.17	ug/L			10/26/18 08:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 08:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 08:59	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 08:59	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 08:59	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 08:59	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/26/18 08:59*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/26/18 08:59*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/26/18 08:59*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/26/18 08:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	65000	B	5000	1900	ug/L			10/20/18 21:10	1
Ethane	170	U	170	33	ug/L			10/30/18 15:04	22
Ethene	150	U	150	33	ug/L			10/30/18 15:04	22
Methane	1800		88	22	ug/L			10/30/18 15:04	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.28		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:48	1
Manganese	0.024	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:48	1
Sodium	1510		2.0	0.65	mg/L		10/24/18 08:27	10/29/18 12:43	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2540		25.0	14.1	mg/L			10/27/18 01:12	50
Sulfate	264	B	100	17.5	mg/L			10/27/18 01:12	50
Alkalinity, Total	416		60.0	24.0	mg/L			10/31/18 18:14	6
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:23	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:23	1
Total Organic Carbon	21.4		1.0	0.43	mg/L			11/02/18 19:09	1
Ferric Iron	0.28		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	28.4		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-26-D2-W-181017
Date Collected: 10/17/18 22:30
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 09:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:26	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 09:26	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 09:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 09:26	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 09:26	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 09:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 09:26	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 09:26	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 09:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 09:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 09:26	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 09:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 09:26	1
Acetone	25	U	25	2.7	ug/L			10/26/18 09:26	1
Benzene	**0.69**	**J**	1.0	0.20	ug/L			10/26/18 09:26	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 09:26	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 09:26	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 09:26	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 09:26	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 09:26	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 09:26	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 09:26	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 09:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 09:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 09:26	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 09:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
Ethylbenzene	**0.39**	**J**	1.0	0.19	ug/L			10/26/18 09:26	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 09:26	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 09:26	1
Methyl tert-butyl ether	**76**		1.0	0.17	ug/L			10/26/18 09:26	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 09:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 09:26	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 09:26	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 09:26	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 09:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 09:26	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 09:26	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 09:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 09:26	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 09:26	1

Client Sample ID: MW-26-D2-W-181017

Lab Sample ID: 480-143739-7
Matrix: Water
Date Collected: 10/17/18 22:30
Date Received: 10/19/18 10:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/26/18 09:26	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/26/18 09:26	1
Dibromofluoromethane (Surr)	98		70 - 130		10/26/18 09:26	1
Toluene-d8 (Surr)	104		70 - 130		10/26/18 09:26	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000	B	5000	1900	ug/L			10/20/18 21:19	1
Ethane	170	U	170	33	ug/L			10/30/18 15:21	22
Ethene	150	U	150	33	ug/L			10/30/18 15:21	22
Methane	1100		88	22	ug/L			10/30/18 15:21	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.15		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:51	1
Manganese	0.052	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:51	1
Sodium	2190		5.0	1.6	mg/L		10/24/18 08:27	10/29/18 12:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3820		25.0	14.1	mg/L			10/27/18 01:27	50
Sulfate	361	B	100	17.5	mg/L			10/27/18 01:27	50
Alkalinity, Total	509		60.0	24.0	mg/L			10/31/18 18:16	6
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:01	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:01	1
Total Organic Carbon	9.0		1.0	0.43	mg/L			11/02/18 19:38	1
Ferric Iron	0.15		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	25.6		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-28-D1-W-181017

Lab Sample ID: 480-143739-8
Matrix: Water
Date Collected: 10/17/18 21:45
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 09:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 09:52	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 09:52	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 09:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 09:52	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 09:52	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 09:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 09:52	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 09:52	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 09:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 09:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 09:52	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 09:52	1

Client Sample ID: MW-28-D1-W-181017
Date Collected: 10/17/18 21:45
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 09:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 09:52	1
Acetone	**9.3**	**J**	25	2.7	ug/L			10/26/18 09:52	1
Benzene	**5.6**		1.0	0.20	ug/L			10/26/18 09:52	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 09:52	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 09:52	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 09:52	1
Carbon disulfide	**0.47**	**J**	1.0	0.22	ug/L			10/26/18 09:52	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 09:52	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 09:52	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 09:52	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 09:52	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 09:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 09:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 09:52	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 09:52	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 09:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 09:52	1
Ethylbenzene	**1.4**		1.0	0.19	ug/L			10/26/18 09:52	1
Isopropylbenzene	**0.33**	**J**	1.0	0.33	ug/L			10/26/18 09:52	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 09:52	1
Methyl tert-butyl ether	**9.5**		1.0	0.17	ug/L			10/26/18 09:52	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 09:52	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 09:52	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 09:52	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 09:52	1
Toluene	**0.39**	**J**	1.0	0.17	ug/L			10/26/18 09:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 09:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 09:52	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 09:52	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 09:52	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 09:52	1
Xylenes, Total	**2.6**	**J**	3.0	0.58	ug/L			10/26/18 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/26/18 09:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/26/18 09:52*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/26/18 09:52*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/26/18 09:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	8900	B	5000	1900	ug/L			10/20/18 21:28	1
Ethane	330	U	330	66	ug/L			10/30/18 15:39	44
Ethene	310	U	310	66	ug/L			10/30/18 15:39	44
Methane	1500		180	44	ug/L			10/30/18 15:39	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.98		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:55	1

Client Sample ID: MW-28-D1-W-181017

Lab Sample ID: 480-143739-8
Matrix: Water
Date Collected: 10/17/18 21:45
Date Received: 10/19/18 10:15

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.022	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:55	1
Sodium	386		1.0	0.32	mg/L		10/24/18 08:27	10/27/18 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	945		5.0	2.8	mg/L			10/29/18 15:35	10
Sulfate	231		20.0	3.5	mg/L			10/29/18 15:35	10
Alkalinity, Total	102		20.0	8.0	mg/L			10/31/18 17:38	2
Nitrate as N	0.076		0.050	0.020	mg/L			10/19/18 18:10	1
Nitrite as N	0.044	J	0.050	0.020	mg/L			10/19/18 18:10	1
Total Organic Carbon	23.1		1.0	0.43	mg/L			11/02/18 20:06	1
Ferric Iron	0.98		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	7.2		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-28-D2R-W-181017

Lab Sample ID: 480-143739-9
Matrix: Water
Date Collected: 10/17/18 21:20
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 10:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:19	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 10:19	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 10:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 10:19	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 10:19	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 10:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 10:19	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 10:19	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 10:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 10:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 10:19	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 10:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 10:19	1
Acetone	25	U	25	2.7	ug/L			10/26/18 10:19	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 10:19	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 10:19	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 10:19	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 10:19	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 10:19	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 10:19	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 10:19	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 10:19	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 10:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 10:19	1

Client Sample ID: MW-28-D2R-W-181017
Date Collected: 10/17/18 21:20
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 10:19	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 10:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 10:19	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 10:19	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 10:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 10:19	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 10:19	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 10:19	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 10:19	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 10:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 10:19	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 10:19	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 10:19	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 10:19	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/26/18 10:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/26/18 10:19*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/26/18 10:19*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/18 10:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	140000	B	5000	1900	ug/L			10/20/18 21:37	1
Ethane	170	U	170	33	ug/L			10/30/18 15:56	22
Ethene	150	U	150	33	ug/L			10/30/18 15:56	22
Methane	240		88	22	ug/L			10/30/18 15:56	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.2		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 14:59	1
Manganese	0.71	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 14:59	1
Sodium	4670		10.0	3.2	mg/L		10/24/18 08:27	10/29/18 12:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9820		250	141	mg/L			10/31/18 18:12	500
Sulfate	1330		200	34.9	mg/L			10/29/18 15:49	100
Alkalinity, Total	333		50.0	20.0	mg/L			10/31/18 18:16	5
Nitrate as N	0.26		0.050	0.020	mg/L			10/19/18 18:11	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 18:11	1
Total Organic Carbon	3.5		1.0	0.43	mg/L			10/31/18 13:55	1
Ferric Iron	2.2		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	3.2		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-27-D2-W-181018
Date Collected: 10/18/18 00:45
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 10:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 10:46	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 10:46	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 10:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 10:46	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 10:46	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 10:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 10:46	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 10:46	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 10:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 10:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 10:46	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 10:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 10:46	1
Acetone	25	U	25	2.7	ug/L			10/26/18 10:46	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 10:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 10:46	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 10:46	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 10:46	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 10:46	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 10:46	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 10:46	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 10:46	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 10:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 10:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 10:46	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 10:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 10:46	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 10:46	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 10:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 10:46	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 10:46	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 10:46	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 10:46	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 10:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 10:46	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 10:46	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 10:46	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 10:46	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 10:46	1

Client Sample ID: MW-27-D2-W-181018

Lab Sample ID: 480-143739-10
Matrix: Water

Date Collected: 10/18/18 00:45
Date Received: 10/19/18 10:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/26/18 10:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/26/18 10:46	1
Dibromofluoromethane (Surr)	100		70 - 130		10/26/18 10:46	1
Toluene-d8 (Surr)	107		70 - 130		10/26/18 10:46	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	130000	B	5000	1900	ug/L			10/20/18 21:45	1
Ethane	170	U	170	33	ug/L			10/31/18 15:57	22
Ethene	150	U	150	33	ug/L			10/31/18 15:57	22
Methane	1200		88	22	ug/L			10/31/18 15:57	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.8		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 15:14	1
Manganese	0.94	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 15:14	1
Sodium	3580		5.0	1.6	mg/L		10/24/18 08:27	10/29/18 12:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8300		50.0	28.2	mg/L			10/29/18 16:04	100
Sulfate	1250		200	34.9	mg/L			10/29/18 16:04	100
Alkalinity, Total	195		20.0	8.0	mg/L			10/31/18 17:38	2
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:04	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:04	1
Total Organic Carbon	6.5		1.0	0.43	mg/L			11/02/18 23:25	1
Ferric Iron	2.8		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	7.2		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-27-D1-W-181018

Lab Sample ID: 480-143739-11
Matrix: Water

Date Collected: 10/18/18 00:30
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 11:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:12	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 11:12	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 11:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 11:12	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 11:12	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 11:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 11:12	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 11:12	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 11:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 11:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 11:12	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 11:12	1

Client Sample ID: MW-27-D1-W-181018
Date Collected: 10/18/18 00:30
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 11:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 11:12	1
Acetone	25	U	25	2.7	ug/L			10/26/18 11:12	1
Benzene	**3.6**		1.0	0.20	ug/L			10/26/18 11:12	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 11:12	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 11:12	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 11:12	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 11:12	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 11:12	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 11:12	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 11:12	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 11:12	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 11:12	1
cis-1,2-Dichloroethene	**1.0**		1.0	0.21	ug/L			10/26/18 11:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 11:12	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 11:12	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 11:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 11:12	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 11:12	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 11:12	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 11:12	1
Methyl tert-butyl ether	**38**		1.0	0.17	ug/L			10/26/18 11:12	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 11:12	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 11:12	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 11:12	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 11:12	1
Toluene	**1.0**		1.0	0.17	ug/L			10/26/18 11:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 11:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 11:12	1
Trichloroethene	**0.26**	**J**	1.0	0.20	ug/L			10/26/18 11:12	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 11:12	1
Vinyl chloride	**70**		1.0	0.18	ug/L			10/26/18 11:12	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/26/18 11:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/26/18 11:12*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/26/18 11:12*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/26/18 11:12*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**150000**	**B**	5000	1900	ug/L			10/20/18 21:54	1
Ethane	170	U	170	33	ug/L			10/31/18 16:14	22
Ethene	150	U	150	33	ug/L			10/31/18 16:14	22
Methane	**3900**		88	22	ug/L			10/31/18 16:14	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 15:17	1

Client Sample ID: MW-27-D1-W-181018

Lab Sample ID: 480-143739-11
Matrix: Water

Date Collected: 10/18/18 00:30
Date Received: 10/19/18 10:15

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.061	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 15:17	1
Sodium	1770		2.0	0.65	mg/L		10/24/18 08:27	10/29/18 12:58	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.0	14.1	mg/L			10/29/18 16:18	50
Sulfate	183		100	17.5	mg/L			10/29/18 16:18	50
Alkalinity, Total	725		90.0	36.0	mg/L			10/31/18 18:41	9
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:06	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:06	1
Total Organic Carbon	10.6		1.0	0.43	mg/L			11/02/18 23:53	1
Ferric Iron	2.0		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.091	J HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	63.2		1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: MW-29-D1-W-181018

Lab Sample ID: 480-143739-12
Matrix: Water

Date Collected: 10/18/18 01:11
Date Received: 10/19/18 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 11:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 11:39	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 11:39	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 11:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 11:39	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 11:39	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 11:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 11:39	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 11:39	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 11:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 11:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 11:39	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 11:39	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 11:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 11:39	1
Acetone	25	U	25	2.7	ug/L			10/26/18 11:39	1
Benzene	3.7		1.0	0.20	ug/L			10/26/18 11:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 11:39	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 11:39	1
Bromomethane	1.0	U *	1.0	0.35	ug/L			10/26/18 11:39	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 11:39	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 11:39	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 11:39	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 11:39	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 11:39	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 11:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 11:39	1

Client Sample ID: MW-29-D1-W-181018
Date Collected: 10/18/18 01:11
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 11:39	1
Cyclohexane	**20**		5.0	0.13	ug/L			10/26/18 11:39	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 11:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 11:39	1
Ethylbenzene	**0.31**	J	1.0	0.19	ug/L			10/26/18 11:39	1
Isopropylbenzene	**16**		1.0	0.33	ug/L			10/26/18 11:39	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 11:39	1
Methyl tert-butyl ether	**33**		1.0	0.17	ug/L			10/26/18 11:39	1
Methylcyclohexane	**11**		5.0	0.090	ug/L			10/26/18 11:39	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 11:39	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 11:39	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 11:39	1
Toluene	**2.8**		1.0	0.17	ug/L			10/26/18 11:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 11:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 11:39	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 11:39	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 11:39	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 11:39	1
Xylenes, Total	**8.1**		3.0	0.58	ug/L			10/26/18 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/26/18 11:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/26/18 11:39*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/26/18 11:39*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/26/18 11:39*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	210000	B	5000	1900	ug/L			10/20/18 22:03	1
Ethane	1700	U	1700	330	ug/L			10/31/18 18:17	220
Ethene	1500	U	1500	330	ug/L			10/31/18 18:17	220
Methane	**19000**		880	220	ug/L			10/31/18 18:17	220

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.5		0.050	0.019	mg/L		10/24/18 08:27	10/27/18 15:21	1
Manganese	0.27	B	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 15:21	1
Sodium	960		2.0	0.65	mg/L		10/24/18 08:27	10/29/18 13:01	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1550		10.0	5.6	mg/L			10/29/18 16:33	20
Sulfate	13.6	J	40.0	7.0	mg/L			10/29/18 16:33	20
Alkalinity, Total	535		60.0	24.0	mg/L			10/31/18 18:16	6
Nitrate as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:07	1
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 16:07	1
Total Organic Carbon	10.9		1.0	0.43	mg/L			11/03/18 00:22	1
Ferric Iron	1.5		0.10	0.075	mg/L			11/03/18 15:01	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			11/02/18 11:55	1
Sulfide	0.80	J	1.0	0.67	mg/L			10/22/18 09:51	1

Client Sample ID: TRIP BLANK-W-181018
Date Collected: 10/18/18 00:00
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 17:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 17:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 17:17	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 17:17	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 17:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 17:17	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 17:17	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 17:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 17:17	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 17:17	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 17:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 17:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 17:17	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 17:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 17:17	1
Acetone	25	U	25	2.7	ug/L			10/26/18 17:17	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 17:17	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 17:17	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 17:17	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 17:17	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 17:17	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 17:17	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 17:17	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 17:17	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 17:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 17:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 17:17	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 17:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 17:17	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 17:17	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 17:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 17:17	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 17:17	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 17:17	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 17:17	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 17:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 17:17	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 17:17	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 17:17	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 17:17	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 17:17	1

Client Sample ID: TRIP BLANK-W-181018
Date Collected: 10/18/18 00:00
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/26/18 17:17	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/26/18 17:17	1
Dibromofluoromethane (Surr)	98		70 - 130		10/26/18 17:17	1
Toluene-d8 (Surr)	106		70 - 130		10/26/18 17:17	1

Surrogate Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-130)	BFB (70-130)	DBFM (70-130)	TOL (70-130)
480-143739-1	AMW-14-VD-W-181017	101	103	96	106
480-143739-1 MS	AMW-14-VD-W-181017	103	99	100	102
480-143739-1 MSD	AMW-14-VD-W-181017	97	103	103	105
480-143739-2	AMW-14-D1-W-181017	102	99	99	104
480-143739-3	AMW-14-D2-W-181017	98	99	98	105
480-143739-4	AMW-7-W-181017	102	102	103	109
480-143739-5	MW-18R-W-181017	99	102	99	107
480-143739-6	MW-26-D1-W-181017	101	98	97	106
480-143739-7	MW-26-D2-W-181017	103	98	98	104
480-143739-8	MW-28-D1-W-181017	100	99	97	106
480-143739-9	MW-28-D2R-W-181017	103	101	100	107
480-143739-10	MW-27-D2-W-181018	104	97	100	107
480-143739-11	MW-27-D1-W-181018	101	100	101	105
480-143739-12	MW-29-D1-W-181018	96	100	99	104
480-143739-13	TRIP BLANK-W-181018	97	98	98	106
LCS 490-552869/3	Lab Control Sample	98	102	102	104
LCS 490-552979/4	Lab Control Sample	97	98	99	106
LCSD 490-552869/4	Lab Control Sample Dup	98	102	99	105
LCSD 490-552979/5	Lab Control Sample Dup	95	99	100	105
MB 490-552869/6	Method Blank	93	103	98	107
MB 490-552979/7	Method Blank	96	98	96	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-552869/6
Matrix: Water
Analysis Batch: 552869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 02:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 02:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 02:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 02:47	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 02:47	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 02:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 02:47	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 02:47	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 02:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 02:47	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 02:47	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 02:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 02:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 02:47	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 02:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 02:47	1
Acetone	25	U	25	2.7	ug/L			10/26/18 02:47	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 02:47	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 02:47	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 02:47	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 02:47	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 02:47	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 02:47	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 02:47	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 02:47	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 02:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 02:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 02:47	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 02:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 02:47	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 02:47	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 02:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 02:47	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 02:47	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 02:47	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 02:47	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 02:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 02:47	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 02:47	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 02:47	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 02:47	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 02:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/26/18 02:47	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/26/18 02:47	1
Dibromofluoromethane (Surr)	98		70 - 130		10/26/18 02:47	1
Toluene-d8 (Surr)	107		70 - 130		10/26/18 02:47	1

Lab Sample ID: LCS 490-552869/3
Matrix: Water
Analysis Batch: 552869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	78 - 135
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.6		ug/L		93	77 - 129
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	80 - 124
1,1-Dichloroethane	20.0	19.7		ug/L		99	78 - 125
1,1-Dichloroethene	20.0	21.0		ug/L		105	79 - 124
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		88	54 - 125
1,2-Dibromoethane	20.0	19.8		ug/L		99	80 - 129
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 121
1,2-Dichloroethane	20.0	18.0		ug/L		90	77 - 121
1,2-Dichloropropane	20.0	18.4		ug/L		92	75 - 120
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 122
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
2-Butanone (MEK)	100	113		ug/L		113	62 - 133
2-Hexanone	100	98.8		ug/L		99	60 - 142
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	60 - 137
Acetone	100	108		ug/L		108	54 - 145
Benzene	20.0	18.2		ug/L		91	80 - 121
Bromodichloromethane	20.0	19.0		ug/L		95	75 - 129
Bromoform	20.0	17.2		ug/L		86	46 - 145
Bromomethane	20.0	30.6	*	ug/L		153	41 - 150
Carbon disulfide	20.0	17.9		ug/L		89	77 - 126
Carbon tetrachloride	20.0	18.1		ug/L		91	64 - 147
Chlorobenzene	20.0	19.1		ug/L		96	80 - 120
Chloroethane	20.0	22.4		ug/L		112	72 - 120
Chloroform	20.0	19.3		ug/L		97	73 - 129
Chloromethane	20.0	23.5		ug/L		118	12 - 150
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	76 - 125
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	74 - 140
Cyclohexane	20.0	18.3		ug/L		91	73 - 122
Dibromochloromethane	20.0	19.0		ug/L		95	69 - 133
Dichlorodifluoromethane	20.0	20.0		ug/L		100	37 - 127
Ethylbenzene	20.0	18.9		ug/L		95	80 - 130
Isopropylbenzene	20.0	18.9		ug/L		95	80 - 141
Methyl acetate	40.0	39.7		ug/L		99	64 - 150
Methyl tert-butyl ether	20.0	21.1		ug/L		105	72 - 133
Methylcyclohexane	20.0	18.7		ug/L		94	71 - 129
Methylene Chloride	20.0	20.2		ug/L		101	79 - 123
Styrene	20.0	18.7		ug/L		94	80 - 127
Tetrachloroethene	20.0	19.5		ug/L		97	80 - 126
Toluene	20.0	19.8		ug/L		99	80 - 126
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 126

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

Lab Sample ID: LCS 490-552869/3
Matrix: Water
Analysis Batch: 552869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	63 - 134
Trichloroethene	20.0	19.3		ug/L		97	80 - 123
Trichlorofluoromethane	20.0	22.4		ug/L		112	65 - 124
Vinyl chloride	20.0	22.1		ug/L		111	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 490-552869/4
Matrix: Water
Analysis Batch: 552869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	78 - 135	1	15
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131	5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.2		ug/L		96	77 - 129	3	16
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	80 - 124	6	13
1,1-Dichloroethane	20.0	21.0		ug/L		105	78 - 125	6	17
1,1-Dichloroethene	20.0	21.5		ug/L		108	79 - 124	3	20
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		97	63 - 133	1	15
1,2-Dibromo-3-Chloropropane	20.0	16.9		ug/L		85	54 - 125	3	19
1,2-Dibromoethane	20.0	20.6		ug/L		103	80 - 129	4	13
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 121	2	12
1,2-Dichloroethane	20.0	18.8		ug/L		94	77 - 121	4	13
1,2-Dichloropropane	20.0	18.3		ug/L		92	75 - 120	1	15
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 122	3	13
1,4-Dichlorobenzene	20.0	19.1		ug/L		95	80 - 120	3	12
2-Butanone (MEK)	100	110		ug/L		110	62 - 133	3	19
2-Hexanone	100	101		ug/L		101	60 - 142	2	17
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	60 - 137	1	21
Acetone	100	112		ug/L		112	54 - 145	3	23
Benzene	20.0	18.3		ug/L		92	80 - 121	1	12
Bromodichloromethane	20.0	19.1		ug/L		95	75 - 129	1	14
Bromoform	20.0	17.8		ug/L		89	46 - 145	3	14
Bromomethane	20.0	32.5	*	ug/L		162	41 - 150	6	19
Carbon disulfide	20.0	18.2		ug/L		91	77 - 126	2	16
Carbon tetrachloride	20.0	19.2		ug/L		96	64 - 147	6	16
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120	6	12
Chloroethane	20.0	23.1		ug/L		116	72 - 120	3	15
Chloroform	20.0	19.9		ug/L		100	73 - 129	3	14
Chloromethane	20.0	24.2		ug/L		121	12 - 150	3	20
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	76 - 125	1	15
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	74 - 140	3	15
Cyclohexane	20.0	18.9		ug/L		94	73 - 122	3	16

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

Lab Sample ID: LCSD 490-552869/4
Matrix: Water
Analysis Batch: 552869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	20.0	20.0		ug/L		100	69 - 133	5	13
Dichlorodifluoromethane	20.0	21.2		ug/L		106	37 - 127	6	16
Ethylbenzene	20.0	19.5		ug/L		97	80 - 130	3	12
Isopropylbenzene	20.0	19.7		ug/L		98	80 - 141	4	13
Methyl acetate	40.0	37.7		ug/L		94	64 - 150	5	18
Methyl tert-butyl ether	20.0	21.0		ug/L		105	72 - 133	0	16
Methylcyclohexane	20.0	19.0		ug/L		95	71 - 129	1	17
Methylene Chloride	20.0	20.6		ug/L		103	79 - 123	2	15
Styrene	20.0	19.6		ug/L		98	80 - 127	4	12
Tetrachloroethene	20.0	20.6		ug/L		103	80 - 126	5	17
Toluene	20.0	20.5		ug/L		103	80 - 126	4	13
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	79 - 126	5	15
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	63 - 134	4	13
Trichloroethene	20.0	20.2		ug/L		101	80 - 123	4	14
Trichlorofluoromethane	20.0	23.3		ug/L		117	65 - 124	4	22
Vinyl chloride	20.0	23.4		ug/L		117	68 - 120	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 480-143739-1 MS
Matrix: Water
Analysis Batch: 552869

Client Sample ID: AMW-14-VD-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	20.0	21.7		ug/L		108	68 - 144
1,1,2,2-Tetrachloroethane	1.0	U	20.0	22.0		ug/L		110	56 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	20.0	22.9		ug/L		114	63 - 150
1,1,2-Trichloroethane	1.0	U	20.0	21.0		ug/L		105	70 - 130
1,1-Dichloroethane	1.0	U	20.0	23.5		ug/L		117	61 - 139
1,1-Dichloroethene	1.0	U	20.0	24.1		ug/L		120	54 - 150
1,2,4-Trichlorobenzene	1.0	U	20.0	18.6		ug/L		93	47 - 147
1,2-Dibromo-3-Chloropropane	10	U	20.0	22.1		ug/L		110	38 - 138
1,2-Dibromoethane	1.0	U	20.0	21.2		ug/L		106	65 - 137
1,2-Dichlorobenzene	1.0	U	20.0	19.8		ug/L		99	70 - 130
1,2-Dichloroethane	1.0	U	20.0	20.4		ug/L		102	64 - 136
1,2-Dichloropropane	1.0	U	20.0	20.2		ug/L		101	67 - 130
1,3-Dichlorobenzene	1.0	U	20.0	19.8		ug/L		99	68 - 131
1,4-Dichlorobenzene	1.0	U	20.0	19.5		ug/L		97	70 - 130
2-Butanone (MEK)	50	U	100	128		ug/L		128	50 - 143
2-Hexanone	10	U	100	144		ug/L		144	44 - 150
4-Methyl-2-pentanone (MIBK)	10	U F1	100	144	F1	ug/L		144	50 - 140
Acetone	25	U	100	115		ug/L		115	39 - 150
Benzene	1.0	U	20.0	20.8		ug/L		104	55 - 147

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

Lab Sample ID: 480-143739-1 MS
Matrix: Water
Analysis Batch: 552869

Client Sample ID: AMW-14-VD-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	1.0	U	20.0	20.3		ug/L		101	70 - 140
Bromoform	1.0	U	20.0	17.9		ug/L		90	53 - 150
Bromomethane	1.0	U *	20.0	11.3		ug/L		56	30 - 150
Carbon disulfide	1.0	U	20.0	21.5		ug/L		107	35 - 150
Carbon tetrachloride	1.0	U	20.0	22.5		ug/L		113	56 - 150
Chlorobenzene	1.0	U	20.0	20.9		ug/L		104	70 - 130
Chloroethane	1.0	U	20.0	27.9		ug/L		140	58 - 141
Chloroform	1.0	U	20.0	21.9		ug/L		109	66 - 138
Chloromethane	1.0	U	20.0	16.7		ug/L		84	10 - 150
cis-1,2-Dichloroethene	1.0	U	20.0	22.5		ug/L		113	68 - 131
cis-1,3-Dichloropropene	1.0	U	20.0	21.0		ug/L		105	70 - 133
Cyclohexane	5.0	U	20.0	21.9		ug/L		109	48 - 150
Dibromochloromethane	1.0	U	20.0	20.8		ug/L		104	66 - 140
Dichlorodifluoromethane	1.0	U	20.0	23.7		ug/L		118	10 - 150
Ethylbenzene	1.0	U	20.0	20.9		ug/L		105	65 - 139
Isopropylbenzene	1.0	U	20.0	20.1		ug/L		101	70 - 137
Methyl acetate	10	U	40.0	43.4		ug/L		108	42 - 136
Methyl tert-butyl ether	1.0	U	20.0	23.5		ug/L		117	55 - 141
Methylcyclohexane	5.0	U	20.0	21.0		ug/L		105	59 - 150
Methylene Chloride	5.0	U	20.0	21.4		ug/L		107	64 - 130
Styrene	1.0	U	20.0	19.8		ug/L		99	70 - 130
Tetrachloroethene	1.0	U	20.0	23.1		ug/L		116	57 - 138
Toluene	1.0	U	20.0	21.9		ug/L		109	64 - 136
trans-1,2-Dichloroethene	1.0	U	20.0	23.3		ug/L		116	59 - 143
trans-1,3-Dichloropropene	1.0	U	20.0	19.9		ug/L		99	63 - 142
Trichloroethene	1.0	U	20.0	22.2		ug/L		111	63 - 135
Trichlorofluoromethane	1.0	U	20.0	28.1		ug/L		141	44 - 150
Vinyl chloride	1.0	U	20.0	24.9		ug/L		124	57 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 480-143739-1 MSD
Matrix: Water
Analysis Batch: 552869

Client Sample ID: AMW-14-VD-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	20.0	21.1		ug/L		105	68 - 144	3	17
1,1,2,2-Tetrachloroethane	1.0	U	20.0	24.1		ug/L		120	56 - 145	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	20.0	21.6		ug/L		108	63 - 150	6	18
1,1,2-Trichloroethane	1.0	U	20.0	21.8		ug/L		109	70 - 130	3	15
1,1-Dichloroethane	1.0	U	20.0	22.0		ug/L		110	61 - 139	7	17
1,1-Dichloroethene	1.0	U	20.0	23.3		ug/L		117	54 - 150	3	17
1,2,4-Trichlorobenzene	1.0	U	20.0	19.3		ug/L		97	47 - 147	4	19

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

Lab Sample ID: 480-143739-1 MSD
Matrix: Water
Analysis Batch: 552869

Client Sample ID: AMW-14-VD-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	10	U	20.0	18.1		ug/L		90	38 - 138	20	24
1,2-Dibromoethane	1.0	U	20.0	22.0		ug/L		110	65 - 137	4	15
1,2-Dichlorobenzene	1.0	U	20.0	20.1		ug/L		101	70 - 130	2	15
1,2-Dichloroethane	1.0	U	20.0	19.9		ug/L		100	64 - 136	2	17
1,2-Dichloropropane	1.0	U	20.0	19.7		ug/L		98	67 - 130	3	17
1,3-Dichlorobenzene	1.0	U	20.0	19.8		ug/L		99	68 - 131	0	15
1,4-Dichlorobenzene	1.0	U	20.0	19.5		ug/L		97	70 - 130	0	15
2-Butanone (MEK)	50	U	100	120		ug/L		120	50 - 143	7	19
2-Hexanone	10	U	100	142		ug/L		142	44 - 150	1	15
4-Methyl-2-pentanone (MIBK)	10	U F1	100	142	F1	ug/L		142	50 - 140	2	17
Acetone	25	U	100	123		ug/L		123	39 - 150	7	21
Benzene	1.0	U	20.0	19.5		ug/L		98	55 - 147	6	17
Bromodichloromethane	1.0	U	20.0	20.0		ug/L		100	70 - 140	2	18
Bromoform	1.0	U	20.0	19.4		ug/L		97	53 - 150	8	16
Bromomethane	1.0	U *	20.0	14.6		ug/L		73	30 - 150	26	50
Carbon disulfide	1.0	U	20.0	21.4		ug/L		107	35 - 150	1	21
Carbon tetrachloride	1.0	U	20.0	21.2		ug/L		106	56 - 150	6	19
Chlorobenzene	1.0	U	20.0	20.5		ug/L		103	70 - 130	2	14
Chloroethane	1.0	U	20.0	25.9		ug/L		129	58 - 141	8	20
Chloroform	1.0	U	20.0	21.5		ug/L		107	66 - 138	2	18
Chloromethane	1.0	U	20.0	17.1		ug/L		86	10 - 150	2	31
cis-1,2-Dichloroethene	1.0	U	20.0	22.1		ug/L		110	68 - 131	2	17
cis-1,3-Dichloropropene	1.0	U	20.0	21.6		ug/L		108	70 - 133	3	15
Cyclohexane	5.0	U	20.0	20.9		ug/L		105	48 - 150	4	16
Dibromochloromethane	1.0	U	20.0	21.2		ug/L		106	66 - 140	2	15
Dichlorodifluoromethane	1.0	U	20.0	22.6		ug/L		113	10 - 150	5	18
Ethylbenzene	1.0	U	20.0	19.8		ug/L		99	65 - 139	6	15
Isopropylbenzene	1.0	U	20.0	19.7		ug/L		99	70 - 137	2	16
Methyl acetate	10	U	40.0	41.7		ug/L		104	42 - 136	4	31
Methyl tert-butyl ether	1.0	U	20.0	23.8		ug/L		119	55 - 141	2	16
Methylcyclohexane	5.0	U	20.0	19.3		ug/L		97	59 - 150	9	19
Methylene Chloride	5.0	U	20.0	20.1		ug/L		101	64 - 130	6	17
Styrene	1.0	U	20.0	20.1		ug/L		100	70 - 130	1	24
Tetrachloroethene	1.0	U	20.0	22.5		ug/L		113	57 - 138	3	16
Toluene	1.0	U	20.0	21.9		ug/L		109	64 - 136	0	15
trans-1,2-Dichloroethene	1.0	U	20.0	21.9		ug/L		109	59 - 143	6	16
trans-1,3-Dichloropropene	1.0	U	20.0	20.6		ug/L		103	63 - 142	4	14
Trichloroethene	1.0	U	20.0	21.4		ug/L		107	63 - 135	4	17
Trichlorofluoromethane	1.0	U	20.0	27.2		ug/L		136	44 - 150	3	18
Vinyl chloride	1.0	U	20.0	23.6		ug/L		118	57 - 150	5	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 490-552979/7
Matrix: Water
Analysis Batch: 552979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.15	ug/L			10/26/18 16:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.19	ug/L			10/26/18 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/26/18 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.25	ug/L			10/26/18 16:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.20	ug/L			10/26/18 16:24	1
1,2-Dibromo-3-Chloropropane	10	U	10	0.94	ug/L			10/26/18 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.21	ug/L			10/26/18 16:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/26/18 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			10/26/18 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/26/18 16:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 16:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
2-Butanone (MEK)	50	U	50	2.6	ug/L			10/26/18 16:24	1
2-Hexanone	10	U	10	1.3	ug/L			10/26/18 16:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.81	ug/L			10/26/18 16:24	1
Acetone	25	U	25	2.7	ug/L			10/26/18 16:24	1
Benzene	1.0	U	1.0	0.20	ug/L			10/26/18 16:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/26/18 16:24	1
Bromomethane	1.0	U	1.0	0.35	ug/L			10/26/18 16:24	1
Carbon disulfide	1.0	U	1.0	0.22	ug/L			10/26/18 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.18	ug/L			10/26/18 16:24	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			10/26/18 16:24	1
Chloroethane	1.0	U	1.0	0.36	ug/L			10/26/18 16:24	1
Chloroform	1.0	U	1.0	0.23	ug/L			10/26/18 16:24	1
Chloromethane	1.0	U	1.0	0.36	ug/L			10/26/18 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			10/26/18 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
Cyclohexane	5.0	U	5.0	0.13	ug/L			10/26/18 16:24	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			10/26/18 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
Ethylbenzene	1.0	U	1.0	0.19	ug/L			10/26/18 16:24	1
Isopropylbenzene	1.0	U	1.0	0.33	ug/L			10/26/18 16:24	1
Methyl acetate	10	U	10	0.58	ug/L			10/26/18 16:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
Methylcyclohexane	5.0	U	5.0	0.090	ug/L			10/26/18 16:24	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			10/26/18 16:24	1
Styrene	1.0	U	1.0	0.28	ug/L			10/26/18 16:24	1
Tetrachloroethene	1.0	U	1.0	0.14	ug/L			10/26/18 16:24	1
Toluene	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			10/26/18 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.17	ug/L			10/26/18 16:24	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			10/26/18 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			10/26/18 16:24	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			10/26/18 16:24	1
Xylenes, Total	3.0	U	3.0	0.58	ug/L			10/26/18 16:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		10/26/18 16:24	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/26/18 16:24	1
Dibromofluoromethane (Surr)	96		70 - 130		10/26/18 16:24	1
Toluene-d8 (Surr)	106		70 - 130		10/26/18 16:24	1

Lab Sample ID: LCS 490-552979/4
Matrix: Water
Analysis Batch: 552979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.1		ug/L		95	78 - 135
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/L		104	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/L		101	77 - 129
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 124
1,1-Dichloroethane	20.0	22.2		ug/L		111	78 - 125
1,1-Dichloroethene	20.0	21.8		ug/L		109	79 - 124
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		98	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	54 - 125
1,2-Dibromoethane	20.0	21.5		ug/L		108	80 - 129
1,2-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 121
1,2-Dichloroethane	20.0	19.5		ug/L		98	77 - 121
1,2-Dichloropropane	20.0	20.0		ug/L		100	75 - 120
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 122
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
2-Butanone (MEK)	100	124		ug/L		124	62 - 133
2-Hexanone	100	109		ug/L		109	60 - 142
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	60 - 137
Acetone	100	122		ug/L		122	54 - 145
Benzene	20.0	18.7		ug/L		94	80 - 121
Bromodichloromethane	20.0	19.9		ug/L		100	75 - 129
Bromoform	20.0	19.2		ug/L		96	46 - 145
Bromomethane	20.0	18.5		ug/L		93	41 - 150
Carbon disulfide	20.0	19.4		ug/L		97	77 - 126
Carbon tetrachloride	20.0	19.5		ug/L		98	64 - 147
Chlorobenzene	20.0	20.3		ug/L		102	80 - 120
Chloroethane	20.0	20.3		ug/L		102	72 - 120
Chloroform	20.0	20.3		ug/L		101	73 - 129
Chloromethane	20.0	18.0		ug/L		90	12 - 150
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	76 - 125
cis-1,3-Dichloropropene	20.0	20.8		ug/L		104	74 - 140
Cyclohexane	20.0	19.8		ug/L		99	73 - 122
Dibromochloromethane	20.0	21.0		ug/L		105	69 - 133
Dichlorodifluoromethane	20.0	16.0		ug/L		80	37 - 127
Ethylbenzene	20.0	19.8		ug/L		99	80 - 130
Isopropylbenzene	20.0	20.0		ug/L		100	80 - 141
Methyl acetate	40.0	39.9		ug/L		100	64 - 150
Methyl tert-butyl ether	20.0	22.2		ug/L		111	72 - 133
Methylcyclohexane	20.0	20.2		ug/L		101	71 - 129
Methylene Chloride	20.0	20.1		ug/L		101	79 - 123
Styrene	20.0	20.0		ug/L		100	80 - 127
Tetrachloroethene	20.0	21.2		ug/L		106	80 - 126
Toluene	20.0	21.1		ug/L		105	80 - 126
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	79 - 126

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

Lab Sample ID: LCS 490-552979/4
Matrix: Water
Analysis Batch: 552979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	20.0	19.9		ug/L		99	63 - 134
Trichloroethene	20.0	20.4		ug/L		102	80 - 123
Trichlorofluoromethane	20.0	20.3		ug/L		101	65 - 124
Vinyl chloride	20.0	19.9		ug/L		100	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 490-552979/5
Matrix: Water
Analysis Batch: 552979

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	78 - 135	5	15
1,1,2,2-Tetrachloroethane	20.0	21.5		ug/L		107	69 - 131	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.7		ug/L		103	77 - 129	3	16
1,1,2-Trichloroethane	20.0	21.9		ug/L		109	80 - 124	1	13
1,1-Dichloroethane	20.0	21.8		ug/L		109	78 - 125	2	17
1,1-Dichloroethene	20.0	22.8		ug/L		114	79 - 124	4	20
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		100	63 - 133	3	15
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	54 - 125	5	19
1,2-Dibromoethane	20.0	22.6		ug/L		113	80 - 129	5	13
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 121	4	12
1,2-Dichloroethane	20.0	19.6		ug/L		98	77 - 121	0	13
1,2-Dichloropropane	20.0	19.2		ug/L		96	75 - 120	4	15
1,3-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 122	7	13
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120	4	12
2-Butanone (MEK)	100	119		ug/L		119	62 - 133	4	19
2-Hexanone	100	114		ug/L		114	60 - 142	4	17
4-Methyl-2-pentanone (MIBK)	100	117		ug/L		117	60 - 137	4	21
Acetone	100	124		ug/L		124	54 - 145	2	23
Benzene	20.0	19.1		ug/L		96	80 - 121	2	12
Bromodichloromethane	20.0	20.2		ug/L		101	75 - 129	1	14
Bromoform	20.0	19.2		ug/L		96	46 - 145	0	14
Bromomethane	20.0	19.7		ug/L		98	41 - 150	6	19
Carbon disulfide	20.0	20.0		ug/L		100	77 - 126	3	16
Carbon tetrachloride	20.0	20.1		ug/L		101	64 - 147	3	16
Chlorobenzene	20.0	21.2		ug/L		106	80 - 120	4	12
Chloroethane	20.0	20.9		ug/L		105	72 - 120	3	15
Chloroform	20.0	20.6		ug/L		103	73 - 129	2	14
Chloromethane	20.0	17.6		ug/L		88	12 - 150	2	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	76 - 125	3	15
cis-1,3-Dichloropropene	20.0	20.8		ug/L		104	74 - 140	0	15
Cyclohexane	20.0	20.4		ug/L		102	73 - 122	3	16

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

Lab Sample ID: LCSD 490-552979/5
Matrix: Water
Analysis Batch: 552979

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	20.0	20.8		ug/L		104	69 - 133	1	13
Dichlorodifluoromethane	20.0	17.0		ug/L		85	37 - 127	6	16
Ethylbenzene	20.0	20.4		ug/L		102	80 - 130	3	12
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 141	3	13
Methyl acetate	40.0	42.6		ug/L		106	64 - 150	7	18
Methyl tert-butyl ether	20.0	22.5		ug/L		112	72 - 133	1	16
Methylcyclohexane	20.0	20.3		ug/L		101	71 - 129	0	17
Methylene Chloride	20.0	21.5		ug/L		107	79 - 123	6	15
Styrene	20.0	20.4		ug/L		102	80 - 127	2	12
Tetrachloroethene	20.0	22.5		ug/L		112	80 - 126	6	17
Toluene	20.0	21.7		ug/L		108	80 - 126	3	13
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	79 - 126	2	15
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	63 - 134	4	13
Trichloroethene	20.0	20.4		ug/L		102	80 - 123	0	14
Trichlorofluoromethane	20.0	21.3		ug/L		106	65 - 124	5	22
Vinyl chloride	20.0	20.4		ug/L		102	68 - 120	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-135538/24
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	5000	U	5000	1900	ug/L			10/20/18 17:15	1

Lab Sample ID: MB 200-135538/45
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	1900	J	5000	1900	ug/L			10/20/18 20:18	1

Lab Sample ID: LCS 200-135538/43
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	40900		ug/L		102	70 - 130

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 200-135538/44
Matrix: Water
Analysis Batch: 135538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon dioxide	40000	38200		ug/L		96	70 - 130	7	30

Lab Sample ID: MB 480-442484/4
Matrix: Water
Analysis Batch: 442484

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/30/18 10:08	1
Ethene	7.0	U	7.0	1.5	ug/L			10/30/18 10:08	1
Methane	4.0	U	4.0	1.0	ug/L			10/30/18 10:08	1

Lab Sample ID: LCS 480-442484/5
Matrix: Water
Analysis Batch: 442484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.5	14.0		ug/L		97	79 - 120
Ethene	13.5	13.1		ug/L		97	85 - 120
Methane	7.67	7.61		ug/L		99	85 - 120

Lab Sample ID: LCSD 480-442484/7
Matrix: Water
Analysis Batch: 442484

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.5	14.5		ug/L		100	79 - 120	3	50
Ethene	13.5	13.3		ug/L		99	85 - 120	2	50
Methane	7.67	7.63		ug/L		99	85 - 120	0	50

Lab Sample ID: MB 480-442758/4
Matrix: Water
Analysis Batch: 442758

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/31/18 10:34	1
Ethene	7.0	U	7.0	1.5	ug/L			10/31/18 10:34	1
Methane	4.0	U	4.0	1.0	ug/L			10/31/18 10:34	1

Lab Sample ID: LCS 480-442758/5
Matrix: Water
Analysis Batch: 442758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.5	13.8		ug/L		95	79 - 120
Ethene	13.5	12.6		ug/L		93	85 - 120
Methane	7.67	7.76		ug/L		101	85 - 120

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-442758/6
Matrix: Water
Analysis Batch: 442758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.5	14.1		ug/L		97	79 - 120	2	50
Ethene	13.5	13.1		ug/L		97	85 - 120	4	50
Methane	7.67	7.93		ug/L		103	85 - 120	2	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-441215/1-A
Matrix: Water
Analysis Batch: 442289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050	0.019	mg/L		10/24/18 08:27	10/27/18 13:27	1
Manganese	0.000560	J	0.0030	0.00040	mg/L		10/24/18 08:27	10/27/18 13:27	1
Sodium	1.0	U	1.0	0.32	mg/L		10/24/18 08:27	10/27/18 13:27	1

Lab Sample ID: LCS 480-441215/2-A
Matrix: Water
Analysis Batch: 442289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.34		mg/L		93	80 - 120
Manganese	0.200	0.190		mg/L		95	80 - 120
Sodium	10.0	8.71		mg/L		87	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-441915/28
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/26/18 20:50	1
Sulfate	0.368	J	2.0	0.35	mg/L			10/26/18 20:50	1

Lab Sample ID: LCS 480-441915/27
Matrix: Water
Analysis Batch: 441915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.17		mg/L		98	90 - 110
Sulfate	50.0	47.36		mg/L		95	90 - 110

Lab Sample ID: 480-143739-7 MS
Matrix: Water
Analysis Batch: 441915

Client Sample ID: MW-26-D2-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3820		2500	6081	E	mg/L		90	81 - 120
Sulfate	361	B	2500	2694		mg/L		93	80 - 120

Lab Sample ID: MB 480-441996/4
Matrix: Water
Analysis Batch: 441996

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/29/18 15:05	1
Sulfate	2.0	U	2.0	0.35	mg/L			10/29/18 15:05	1

Lab Sample ID: LCS 480-441996/3
Matrix: Water
Analysis Batch: 441996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.80		mg/L		98	90 - 110
Sulfate	50.0	48.32		mg/L		97	90 - 110

Lab Sample ID: 480-143739-12 MS
Matrix: Water
Analysis Batch: 441996

Client Sample ID: MW-29-D1-W-181018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1550		1000	2483	E	mg/L		94	81 - 120
Sulfate	13.6	J	1000	991.6		mg/L		98	80 - 120

Lab Sample ID: 480-143739-12 MSD
Matrix: Water
Analysis Batch: 441996

Client Sample ID: MW-29-D1-W-181018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1550		1000	2462	E	mg/L		91	81 - 120	1	20
Sulfate	13.6	J	1000	967.9		mg/L		95	80 - 120	2	20

Lab Sample ID: MB 480-442714/28
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			10/31/18 17:00	1
Sulfate	0.436	J	2.0	0.35	mg/L			10/31/18 17:00	1

Lab Sample ID: LCS 480-442714/27
Matrix: Water
Analysis Batch: 442714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.39		mg/L		99	90 - 110
Sulfate	50.0	48.36		mg/L		97	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-442924/101
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 15:38	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-442924/110
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.04	J	10.0	4.0	mg/L			10/31/18 16:41	1

Lab Sample ID: MB 480-442924/125
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 17:02	1

Lab Sample ID: MB 480-442924/140
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 17:16	1

Lab Sample ID: MB 480-442924/152
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 17:32	1

Lab Sample ID: MB 480-442924/162
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 18:12	1

Lab Sample ID: MB 480-442924/169
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	10.0	U	10.0	4.0	mg/L			10/31/18 18:14	1

Lab Sample ID: MB 480-442924/27
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.07	J	10.0	4.0	mg/L			10/31/18 14:01	1

Lab Sample ID: LCS 480-442924/102
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.76		mg/L		104	90 - 110

Lab Sample ID: LCS 480-442924/111
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.13		mg/L		104	90 - 110

Lab Sample ID: LCS 480-442924/126
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.77		mg/L		104	90 - 110

Lab Sample ID: LCS 480-442924/141
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.38		mg/L		99	90 - 110

Lab Sample ID: LCS 480-442924/153
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.47		mg/L		103	90 - 110

Lab Sample ID: LCS 480-442924/163
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.02		mg/L		104	90 - 110

Lab Sample ID: LCS 480-442924/170
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.78		mg/L		102	90 - 110

Lab Sample ID: LCS 480-442924/28
Matrix: Water
Analysis Batch: 442924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.49		mg/L		105	90 - 110

Lab Sample ID: 480-143739-7 MS
Matrix: Water
Analysis Batch: 442924

Client Sample ID: MW-26-D2-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	509		20.0	527.1	4	mg/L		90	60 - 140

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: 480-143739-6 DU
Matrix: Water
Analysis Batch: 442924

Client Sample ID: MW-26-D1-W-181017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	416		426.9		mg/L		3	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-440589/3
Matrix: Water
Analysis Batch: 440589

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.050	U	0.050	0.020	mg/L			10/19/18 17:50	1

Lab Sample ID: LCS 480-440589/4
Matrix: Water
Analysis Batch: 440589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.52		mg/L		101	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-443139/27
Matrix: Water
Analysis Batch: 443139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			10/31/18 11:10	1

Lab Sample ID: MB 480-443139/4
Matrix: Water
Analysis Batch: 443139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			10/31/18 00:10	1

Lab Sample ID: LCS 480-443139/28
Matrix: Water
Analysis Batch: 443139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.77		mg/L		98	90 - 110

Lab Sample ID: LCS 480-443139/5
Matrix: Water
Analysis Batch: 443139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.28		mg/L		99	90 - 110

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-443441/27
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			11/02/18 15:52	1

Lab Sample ID: MB 480-443441/4
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			11/02/18 04:34	1

Lab Sample ID: MB 480-443441/51
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			11/03/18 03:12	1

Lab Sample ID: LCS 480-443441/28
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	61.45		mg/L		102	90 - 110

Lab Sample ID: LCS 480-443441/5
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.72		mg/L		101	90 - 110

Lab Sample ID: LCS 480-443441/52
Matrix: Water
Analysis Batch: 443441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	61.21		mg/L		102	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-443332/27
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.10	U	0.10	0.075	mg/L			11/02/18 11:55	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: MB 480-443332/3
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.10	U	0.10	0.075	mg/L			11/02/18 11:55	1

Lab Sample ID: LCS 480-443332/28
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: LCS 480-443332/4
Matrix: Water
Analysis Batch: 443332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.97		mg/L		98	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-440938/27
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Lab Sample ID: MB 480-440938/51
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	0.67	mg/L			10/22/18 09:51	1

Lab Sample ID: LCS 480-440938/28
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.00	9.20		mg/L		102	90 - 110

Lab Sample ID: LCS 480-440938/52
Matrix: Water
Analysis Batch: 440938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.00	9.20		mg/L		102	90 - 110

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: 480-143739-11 DU
Matrix: Water
Analysis Batch: 440938

Client Sample ID: MW-27-D1-W-181018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	63.2			63.20		mg/L				0	20

QC Association Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

GC/MS VOA

Analysis Batch: 552869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	8260C	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	8260C	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	8260C	
480-143739-4	AMW-7-W-181017	Total/NA	Water	8260C	
480-143739-5	MW-18R-W-181017	Total/NA	Water	8260C	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	8260C	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	8260C	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	8260C	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	8260C	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	8260C	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	8260C	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	8260C	
MB 490-552869/6	Method Blank	Total/NA	Water	8260C	
LCS 490-552869/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-552869/4	Lab Control Sample Dup	Total/NA	Water	8260C	
480-143739-1 MS	AMW-14-VD-W-181017	Total/NA	Water	8260C	
480-143739-1 MSD	AMW-14-VD-W-181017	Total/NA	Water	8260C	

Analysis Batch: 552979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-13	TRIP BLANK-W-181018	Total/NA	Water	8260C	
MB 490-552979/7	Method Blank	Total/NA	Water	8260C	
LCS 490-552979/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-552979/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 135538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	RSK-175	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	RSK-175	
480-143739-4	AMW-7-W-181017	Total/NA	Water	RSK-175	
480-143739-5	MW-18R-W-181017	Total/NA	Water	RSK-175	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	RSK-175	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	RSK-175	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	RSK-175	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	RSK-175	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	RSK-175	
MB 200-135538/24	Method Blank	Total/NA	Water	RSK-175	
MB 200-135538/45	Method Blank	Total/NA	Water	RSK-175	
LCS 200-135538/43	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-135538/44	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 442484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 442484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-4	AMW-7-W-181017	Total/NA	Water	RSK-175	
480-143739-5	MW-18R-W-181017	Total/NA	Water	RSK-175	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	RSK-175	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	RSK-175	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	RSK-175	
MB 480-442484/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-442484/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-442484/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 442758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	RSK-175	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	RSK-175	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	RSK-175	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	RSK-175	
MB 480-442758/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-442758/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-442758/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 441215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	3005A	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	3005A	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	3005A	
480-143739-4	AMW-7-W-181017	Total/NA	Water	3005A	
480-143739-5	MW-18R-W-181017	Total/NA	Water	3005A	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	3005A	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	3005A	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	3005A	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	3005A	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	3005A	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	3005A	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	3005A	
MB 480-441215/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-441215/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 442289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	6010C	441215
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	6010C	441215
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	6010C	441215
480-143739-4	AMW-7-W-181017	Total/NA	Water	6010C	441215
480-143739-5	MW-18R-W-181017	Total/NA	Water	6010C	441215
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	6010C	441215
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	6010C	441215
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	6010C	441215
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	6010C	441215

Metals (Continued)

Analysis Batch: 442289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	6010C	441215
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	6010C	441215
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	6010C	441215
MB 480-441215/1-A	Method Blank	Total/NA	Water	6010C	441215
LCS 480-441215/2-A	Lab Control Sample	Total/NA	Water	6010C	441215

Analysis Batch: 442465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	6010C	441215
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	6010C	441215
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	6010C	441215
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	6010C	441215
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	6010C	441215
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	6010C	441215
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	6010C	441215
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	6010C	441215
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	6010C	441215

General Chemistry

Analysis Batch: 440589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	353.2	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	353.2	
MB 480-440589/3	Method Blank	Total/NA	Water	353.2	
LCS 480-440589/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 440591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	353.2	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	353.2	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	353.2	
480-143739-4	AMW-7-W-181017	Total/NA	Water	353.2	
480-143739-5	MW-18R-W-181017	Total/NA	Water	353.2	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	353.2	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	353.2	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	353.2	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	353.2	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	353.2	

Analysis Batch: 440594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	353.2	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	353.2	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	353.2	
480-143739-4	AMW-7-W-181017	Total/NA	Water	353.2	
480-143739-5	MW-18R-W-181017	Total/NA	Water	353.2	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	353.2	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	353.2	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 440594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	353.2	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	353.2	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	353.2	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	353.2	

Analysis Batch: 440938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-4	AMW-7-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-5	MW-18R-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	SM 4500 S2 F	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	SM 4500 S2 F	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	SM 4500 S2 F	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	SM 4500 S2 F	
MB 480-440938/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-440938/51	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-440938/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-440938/52	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-143739-11 DU	MW-27-D1-W-181018	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 441915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	300.0	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	300.0	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	300.0	
480-143739-4	AMW-7-W-181017	Total/NA	Water	300.0	
480-143739-5	MW-18R-W-181017	Total/NA	Water	300.0	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	300.0	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	300.0	
MB 480-441915/28	Method Blank	Total/NA	Water	300.0	
LCS 480-441915/27	Lab Control Sample	Total/NA	Water	300.0	
480-143739-7 MS	MW-26-D2-W-181017	Total/NA	Water	300.0	

Analysis Batch: 441996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	300.0	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	300.0	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	300.0	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	300.0	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	300.0	
MB 480-441996/4	Method Blank	Total/NA	Water	300.0	
LCS 480-441996/3	Lab Control Sample	Total/NA	Water	300.0	
480-143739-12 MS	MW-29-D1-W-181018	Total/NA	Water	300.0	
480-143739-12 MSD	MW-29-D1-W-181018	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 442714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	300.0	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	300.0	
MB 480-442714/28	Method Blank	Total/NA	Water	300.0	
LCS 480-442714/27	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 442924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	310.2	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	310.2	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	310.2	
480-143739-4	AMW-7-W-181017	Total/NA	Water	310.2	
480-143739-5	MW-18R-W-181017	Total/NA	Water	310.2	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	310.2	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	310.2	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	310.2	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	310.2	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	310.2	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	310.2	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	310.2	
MB 480-442924/101	Method Blank	Total/NA	Water	310.2	
MB 480-442924/110	Method Blank	Total/NA	Water	310.2	
MB 480-442924/125	Method Blank	Total/NA	Water	310.2	
MB 480-442924/140	Method Blank	Total/NA	Water	310.2	
MB 480-442924/152	Method Blank	Total/NA	Water	310.2	
MB 480-442924/162	Method Blank	Total/NA	Water	310.2	
MB 480-442924/169	Method Blank	Total/NA	Water	310.2	
MB 480-442924/27	Method Blank	Total/NA	Water	310.2	
LCS 480-442924/102	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/111	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/126	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/141	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/153	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/163	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/170	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-442924/28	Lab Control Sample	Total/NA	Water	310.2	
480-143739-7 MS	MW-26-D2-W-181017	Total/NA	Water	310.2	
480-143739-6 DU	MW-26-D1-W-181017	Total/NA	Water	310.2	

Analysis Batch: 443139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-4	AMW-7-W-181017	Total/NA	Water	9060A	
480-143739-5	MW-18R-W-181017	Total/NA	Water	9060A	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	9060A	
MB 480-443139/27	Method Blank	Total/NA	Water	9060A	
MB 480-443139/4	Method Blank	Total/NA	Water	9060A	
LCS 480-443139/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-443139/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 443332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 443332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-4	AMW-7-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-5	MW-18R-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	SM 3500 FE D	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	SM 3500 FE D	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	SM 3500 FE D	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	SM 3500 FE D	
MB 480-443332/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-443332/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-443332/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-443332/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 443441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	9060A	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	9060A	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	9060A	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	9060A	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	9060A	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	9060A	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	9060A	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	9060A	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	9060A	
MB 480-443441/27	Method Blank	Total/NA	Water	9060A	
MB 480-443441/4	Method Blank	Total/NA	Water	9060A	
MB 480-443441/51	Method Blank	Total/NA	Water	9060A	
LCS 480-443441/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-443441/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-443441/52	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 443457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-143739-1	AMW-14-VD-W-181017	Total/NA	Water	SM 3500	
480-143739-2	AMW-14-D1-W-181017	Total/NA	Water	SM 3500	
480-143739-3	AMW-14-D2-W-181017	Total/NA	Water	SM 3500	
480-143739-4	AMW-7-W-181017	Total/NA	Water	SM 3500	
480-143739-5	MW-18R-W-181017	Total/NA	Water	SM 3500	
480-143739-6	MW-26-D1-W-181017	Total/NA	Water	SM 3500	
480-143739-7	MW-26-D2-W-181017	Total/NA	Water	SM 3500	
480-143739-8	MW-28-D1-W-181017	Total/NA	Water	SM 3500	
480-143739-9	MW-28-D2R-W-181017	Total/NA	Water	SM 3500	
480-143739-10	MW-27-D2-W-181018	Total/NA	Water	SM 3500	
480-143739-11	MW-27-D1-W-181018	Total/NA	Water	SM 3500	
480-143739-12	MW-29-D1-W-181018	Total/NA	Water	SM 3500	

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: AMW-14-VD-W-181017

Lab Sample ID: 480-143739-1

Date Collected: 10/17/18 23:55
Date Received: 10/19/18 10:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 06:46	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 20:27	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	442758	10/31/18 15:39	DSC	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:29	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		20	442465	10/29/18 12:21	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441915	10/26/18 23:59	DMR	TAL BUF
Total/NA	Analysis	300.0		500	442714	10/31/18 17:58	DMR	TAL BUF
Total/NA	Analysis	310.2		5	442924	10/31/18 16:43	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:17	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:17	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 13:58	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: AMW-14-D1-W-181017

Lab Sample ID: 480-143739-2

Date Collected: 10/17/18 23:00
Date Received: 10/19/18 10:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 07:13	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 20:35	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	442484	10/30/18 13:54	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:33	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		2	442465	10/29/18 12:24	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441915	10/27/18 00:14	DMR	TAL BUF
Total/NA	Analysis	310.2		8	442924	10/31/18 17:02	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:18	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:18	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 14:27	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: AMW-14-D2-W-181017

Lab Sample ID: 480-143739-3
Matrix: Water

Date Collected: 10/17/18 23:30
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 07:40	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 20:44	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	442484	10/30/18 14:11	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:37	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		5	442465	10/29/18 12:28	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441915	10/27/18 00:28	DMR	TAL BUF
Total/NA	Analysis	310.2		6	442924	10/31/18 16:43	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:19	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:19	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 18:42	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: AMW-7-W-181017

Lab Sample ID: 480-143739-4
Matrix: Water

Date Collected: 10/17/18 20:45
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 08:06	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 20:53	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	442484	10/30/18 14:29	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:40	LMH	TAL BUF
Total/NA	Analysis	300.0		10	441915	10/27/18 00:43	DMR	TAL BUF
Total/NA	Analysis	310.2		15	442924	10/31/18 17:03	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:20	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:20	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443139	10/31/18 07:58	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-18R-W-181017

Lab Sample ID: 480-143739-5
Matrix: Water

Date Collected: 10/17/18 20:25
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	552869	10/26/18 08:33	SW1	TAL NSH

Client Sample ID: MW-18R-W-181017

Lab Sample ID: 480-143739-5

Date Collected: 10/17/18 20:25
Date Received: 10/19/18 10:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:02	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	442484	10/30/18 14:46	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:44	LMH	TAL BUF
Total/NA	Analysis	300.0		10	441915	10/27/18 00:58	DMR	TAL BUF
Total/NA	Analysis	310.2		4	442924	10/31/18 15:47	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:22	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:22	DCB	TAL BUF
Total/NA	Analysis	9060A		10	443139	10/31/18 08:27	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-26-D1-W-181017

Lab Sample ID: 480-143739-6

Date Collected: 10/17/18 22:05
Date Received: 10/19/18 10:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 08:59	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:10	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442484	10/30/18 15:04	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:48	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		2	442465	10/29/18 12:43	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441915	10/27/18 01:12	DMR	TAL BUF
Total/NA	Analysis	310.2		6	442924	10/31/18 18:14	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:23	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:23	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 19:09	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-26-D2-W-181017

Lab Sample ID: 480-143739-7

Date Collected: 10/17/18 22:30
Date Received: 10/19/18 10:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 09:26	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:19	MLT	TAL BUR

Client Sample ID: MW-26-D2-W-181017

Date Collected: 10/17/18 22:30
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		22	442484	10/30/18 15:21	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:51	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		5	442465	10/29/18 12:46	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441915	10/27/18 01:27	DMR	TAL BUF
Total/NA	Analysis	310.2		6	442924	10/31/18 18:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:01	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:01	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 19:38	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-28-D1-W-181017

Date Collected: 10/17/18 21:45
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 09:52	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:28	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	442484	10/30/18 15:39	BEK	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:55	LMH	TAL BUF
Total/NA	Analysis	300.0		10	441996	10/29/18 15:35	DMR	TAL BUF
Total/NA	Analysis	310.2		2	442924	10/31/18 17:38	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440589	10/19/18 18:10	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 18:10	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 20:06	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-28-D2R-W-181017

Date Collected: 10/17/18 21:20
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 10:19	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:37	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442484	10/30/18 15:56	BEK	TAL BUF

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: MW-28-D2R-W-181017

Lab Sample ID: 480-143739-9
Matrix: Water

Date Collected: 10/17/18 21:20
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 14:59	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		10	442465	10/29/18 12:50	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441996	10/29/18 15:49	DMR	TAL BUF
Total/NA	Analysis	300.0		500	442714	10/31/18 18:12	DMR	TAL BUF
Total/NA	Analysis	310.2		5	442924	10/31/18 18:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440589	10/19/18 18:11	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 18:11	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443139	10/31/18 13:55	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-27-D2-W-181018

Lab Sample ID: 480-143739-10
Matrix: Water

Date Collected: 10/18/18 00:45
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 10:46	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:45	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442758	10/31/18 15:57	DSC	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 15:14	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		5	442465	10/29/18 12:54	LMH	TAL BUF
Total/NA	Analysis	300.0		100	441996	10/29/18 16:04	DMR	TAL BUF
Total/NA	Analysis	310.2		2	442924	10/31/18 17:38	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:04	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:04	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 23:25	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-27-D1-W-181018

Lab Sample ID: 480-143739-11
Matrix: Water

Date Collected: 10/18/18 00:30
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 11:12	SW1	TAL NSH

Lab Chronicle

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Client Sample ID: MW-27-D1-W-181018

Lab Sample ID: 480-143739-11
Matrix: Water

Date Collected: 10/18/18 00:30
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	135538	10/20/18 21:54	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	442758	10/31/18 16:14	DSC	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 15:17	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		2	442465	10/29/18 12:58	LMH	TAL BUF
Total/NA	Analysis	300.0		50	441996	10/29/18 16:18	DMR	TAL BUF
Total/NA	Analysis	310.2		9	442924	10/31/18 18:41	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:06	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:06	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/02/18 23:53	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: MW-29-D1-W-181018

Lab Sample ID: 480-143739-12
Matrix: Water

Date Collected: 10/18/18 01:11
Date Received: 10/19/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552869	10/26/18 11:39	SW1	TAL NSH
Total/NA	Analysis	RSK-175		1	135538	10/20/18 22:03	MLT	TAL BUR
Total/NA	Analysis	RSK-175		220	442758	10/31/18 18:17	DSC	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		1	442289	10/27/18 15:21	LMH	TAL BUF
Total/NA	Prep	3005A			441215	10/24/18 08:27	VEG	TAL BUF
Total/NA	Analysis	6010C		2	442465	10/29/18 13:01	LMH	TAL BUF
Total/NA	Analysis	300.0		20	441996	10/29/18 16:33	DMR	TAL BUF
Total/NA	Analysis	310.2		6	442924	10/31/18 18:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	440591	10/19/18 16:07	DCB	TAL BUF
Total/NA	Analysis	353.2		1	440594	10/19/18 16:07	DCB	TAL BUF
Total/NA	Analysis	9060A		1	443441	11/03/18 00:22	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	443457	11/03/18 15:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	443332	11/02/18 11:55	MRF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	440938	10/22/18 09:51	MJB	TAL BUF

Client Sample ID: TRIP BLANK-W-181018
Date Collected: 10/18/18 00:00
Date Received: 10/19/18 10:15

Lab Sample ID: 480-143739-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	552979	10/26/18 17:17	S1S	TAL NSH

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 480-143739-1
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500		Water	Ferric Iron
SM 3500 FE D		Water	Ferrous Iron

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10391	04-01-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
RSK-175		Water	Carbon dioxide

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11342	03-31-19

Method Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 3500	Iron, Ferric	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: Leidos, Inc.
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

TestAmerica Job ID: 480-143739-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-143739-1	AMW-14-VD-W-181017	Water	10/17/18 23:55	10/19/18 10:15
480-143739-2	AMW-14-D1-W-181017	Water	10/17/18 23:00	10/19/18 10:15
480-143739-3	AMW-14-D2-W-181017	Water	10/17/18 23:30	10/19/18 10:15
480-143739-4	AMW-7-W-181017	Water	10/17/18 20:45	10/19/18 10:15
480-143739-5	MW-18R-W-181017	Water	10/17/18 20:25	10/19/18 10:15
480-143739-6	MW-26-D1-W-181017	Water	10/17/18 22:05	10/19/18 10:15
480-143739-7	MW-26-D2-W-181017	Water	10/17/18 22:30	10/19/18 10:15
480-143739-8	MW-28-D1-W-181017	Water	10/17/18 21:45	10/19/18 10:15
480-143739-9	MW-28-D2R-W-181017	Water	10/17/18 21:20	10/19/18 10:15
480-143739-10	MW-27-D2-W-181018	Water	10/18/18 00:45	10/19/18 10:15
480-143739-11	MW-27-D1-W-181018	Water	10/18/18 00:30	10/19/18 10:15
480-143739-12	MW-29-D1-W-181018	Water	10/18/18 01:11	10/19/18 10:15
480-143739-13	TRIP BLANK-W-181018	Water	10/18/18 00:00	10/19/18 10:15

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

180504 Harrisburg, PA

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ed Ptak	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-120057-26696.3
Client Contact: ~~Mr. Andrew Haselhoff~~ Ed Ptak	Phone: 412-529-1388	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 3
Company: Leidos, Inc.				Job #:

Address: 6310 Allentown Boulevard	Due Date Requested:	
City: Harrisburg	TAT Requested (days): standard	
State, Zip: PA, 17112		
Phone: 206-276-9248	PO #: P010197996	
Email: haselhoffa@leidos.com edwin.ptak@leidos.com	WO #: NWENV-06518040-0-08.02	
Project Name: MNA Analysis	Project #: 48016199	
Site: New York	SSOW#:	

480-143739 COC

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2 - Dissolved Gases - CO2	300.0_28D - IC - Sulfate & Chloride	6010C - Metals ICP - Fe, Mn & Na	RSK_175 - Dissolved Gases (GC)	8260C - TCL list OLM04.2	9060A - Organic Carbon, Total (TOC)	SM4500_S2_F - Sulfide, Total	353.2, 353.2_Nitrite, Nitrate_Calc	310.2 - Alkalinity	3500_Fe+3_D_Cal, 3500_FE_D				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	A	A	CB	N	N	N					
AMW-14-VD	10/17/18	2355	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
AMW-14-D1		2300	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
AMW-14-D2		2330	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
AMW-7		2045	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-18R		2025	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-26-D1		2205	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-26-D2		2230	G	water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-28-D1		2145	G	water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-28-D2R		2120	G	water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-27-D2	10/18/18	0045	G	water	N		X	X	X	X	X	X	X	X	X	X				18	
MW-27-D1	10/18/18	0030	G	water	N		X	X	X	X	X	X	X	X	X	X				18	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/18/18 1630	Company: Leidos	Received by:	Date/Time: 10/18/18 1630	Company: TestAmerica
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/19/18 1015	Company: TA/B
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.3, 2.7, 3.1

Ver: 08/04/2016

11/7/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

180504
Harrisburg, PA

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ed Ptak	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-120057-26696.1
Client Contact: ~~Mr. Andrew Haselhoff~~ Ed Ptak	Phone: 412-529-1388	E-Mail: john.schove@testamericainc.com		Page: Page 2 of 2
Company: Leidos, Inc.				Job #:
Address: 6310 Allentown Boulevard	Due Date Requested:			
City: Harrisburg	TAT Requested (days): standard			
State, Zip: PA, 17112				
Phone:	PO #: P010197996			
Email: ~~haselhoffa@leidos.com~~ edwin.ptak@leidos.com	WO #: NWENV-06518040-0-08.02			
Project Name: MNA Analysis	Project #: 48016199			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2 - Dissolved Gases - CO2	300.0_28D - IC - Sulfate & Chloride	6010C - Metals ICP - Fe, Mn & Na	RSK_175 - Dissolved Gases (GC)	8260C - TCL list OLM04.2	9060A - Organic Carbon, Total (TOC)	SM4500_S2_F - Sulfide, Total	353.2, 353.2_Nitrite, Nitrate_Calc	310.2 - Alkalinity	3500_Fe+3_D_Cal, 3500_FE_D				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	A	A	CB	N	N	N					
MW-29-DI	10/18/18	0110	G	Water	N		X	X	X	X	X	X	X	X	X	X				18	
trip blank	10/18/18			Water							X										
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 10/18/18 1630	Company: Leidos	Received by: B. Moore [signature]	Date/Time: 10/18/18 16:30	Company: TestAmerica
Relinquished by:	Date/Time:	Company:	Received by: [signature]	Date/Time: 10/19/18 1015	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 08/04/2016

14

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-143739 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	COC No: 480-45777.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-143739-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/31/2018		
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199		
Site: Chevron Oceanside - CVX# 6518040	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2/ Dissolved Gases - CO2	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
AMW-14-VD (480-143739-1)	10/17/18	23:55 Eastern		Water			X		
AMW-14-D1 (480-143739-2)	10/17/18	23:00 Eastern		Water			X		
AMW-14-D2 (480-143739-3)	10/17/18	23:30 Eastern		Water			X		
AMW-7 (480-143739-4)	10/17/18	20:45 Eastern		Water			X		
MW-18R (480-143739-5)	10/17/18	20:25 Eastern		Water			X		
MW-26-D1 (480-143739-6)	10/17/18	22:05 Eastern		Water			X		
MW-26-D2 (480-143739-7)	10/17/18	22:30 Eastern		Water			X		
MW-28-D1 (480-143739-8)	10/17/18	21:45 Eastern		Water			X		
MW-28-D2R (480-143739-9)	10/17/18	21:20 Eastern		Water			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Rebecca Torry	Date/Time: 10/19/18 1615	Company TAL	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/20/18 1020	Company TAL	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 09/20/2016

11/7/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-45777.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-143739-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/31/2018	Analysis Requested		Preservation Codes:
City: South Burlington	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199			
Site: Chevron Oceanside - CVX# 6518040	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2/ Dissolved Gases - CO2	Special Instructions/Note:
MW-27-D2 (480-143739-10)	10/18/18	00:45 Eastern		Water			X	
MW-27-D1 (480-143739-11)	10/18/18	00:30 Eastern		Water			X	
MW-29-D1 (480-143739-12)	10/18/18	01:11 Eastern		Water			X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

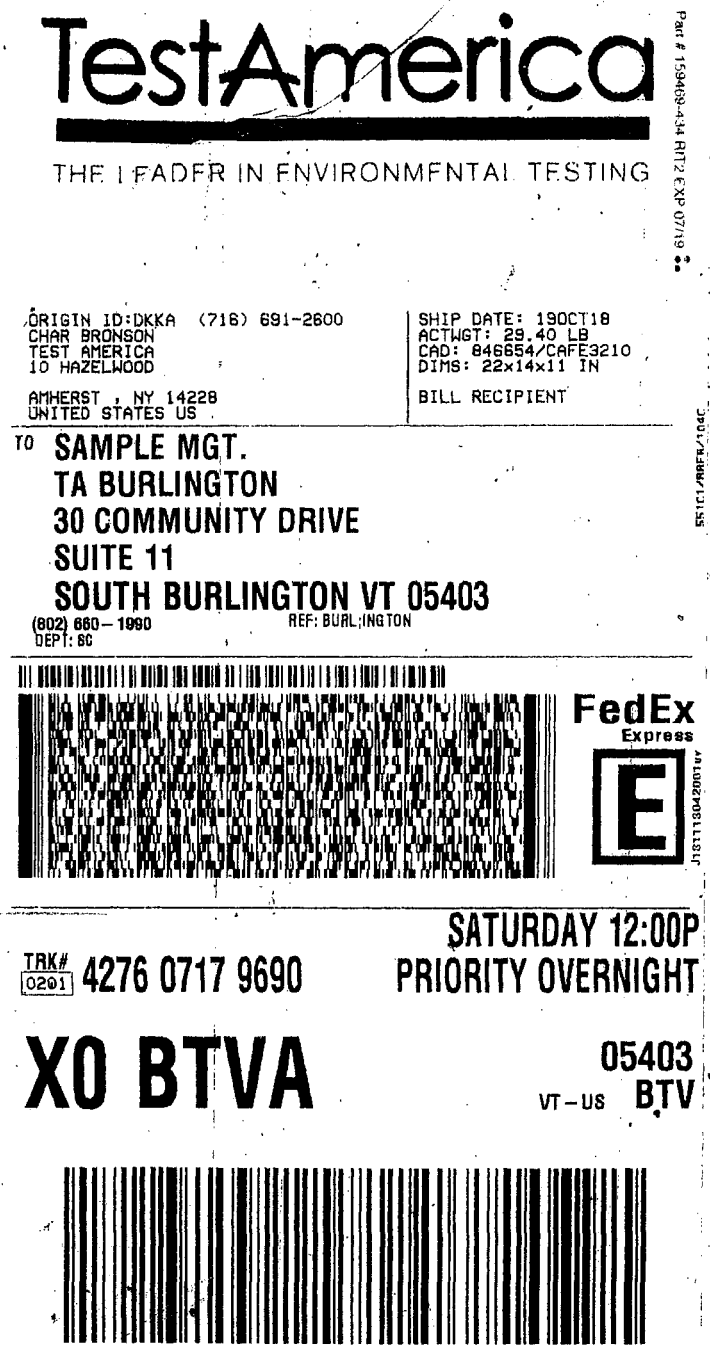
Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Rebecca Terry	10/19/18 1615	TAL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/20/18 1020	Company TAL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Part # 159469-434 REV.EXP 07/19
ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD
AMHERST , NY 14228
UNITED STATES US
SHIP DATE: 19OCT18
ACTWGT: 29.40 LB
CAD: 846654/CAFE3210
DIMS: 22x14x11 IN
BILL RECIPIENT
TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
DEPT: SC
REF: BURLINGTON
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK# 0201 4276 0717 9690
XO BTVA
05403
VT-US BTV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Minneapolis
480-143739 Chain of Custody

Cooler Received/Opened On 10-25-2018 @ 9:29

Time Samples Removed From Cooler 17:11 Time Samples Placed In Storage 17:21 (2 Hour Window)

1. Tracking # 0432 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 3.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 480
143739

COOLER RECEIPT FORM

Cooler Received/Opened On 10/25/2018 @ 9:25

Time Samples Removed From Cooler 12:11 Time Samples Placed in Storage 12:21 (2 Hour Window)

1. Tracking # 0421 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES..(NO)...NA

6. Were custody papers inside cooler? YES..(NO)...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ACB

7. Were custody seals on containers: YES (NO) and intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? (YES)...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 480
143739

COOLER RECEIPT FORM

Cooler Received/Opened On 10/25/2018 @ 0925

Time Samples Removed From Cooler 17:11 Time Samples Placed In Storage 17:21 (2 Hour Window)

1. Tracking # 0416 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17610176 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 3.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 LF front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) 2.2

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance Issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-143739

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R		COC No: 0-45905.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York		Job #: 480-143739-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 10/31/2018			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199			
Site: Chevron Oceanside - CVX# 6518040	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/8036C TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AMW-14-VD-W-181018 (480-143739-1)	10/17/18	23:55 Eastern		Water			X	3	
AMW-14-D1-W-181018 (480-143739-2)	10/17/18	23:00 Eastern		Water			X	3	
AMW-14-D2-W-181018 (480-143739-3)	10/17/18	23:30 Eastern		Water			X	3	
AMW-7-W-181018 (480-143739-4)	10/17/18	20:45 Eastern		Water			X	3	
MW-18R-W-181018 (480-143739-5)	10/17/18	20:25 Eastern		Water			X	3	
MW-26-D1-W-181018 (480-143739-6)	10/17/18	22:05 Eastern		Water			X	3	
MW-26-D2-W-181018 (480-143739-7)	10/17/18	22:30 Eastern		Water			X	3	
MW-28-D1-W-181018 (480-143739-8)	10/17/18	21:45 Eastern		Water			X	3	
MW-28-D2R-W-181018 (480-143739-9)	10/17/18	21:20 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/24/18 1810	Company: TAS	Received by:	Date/Time: 10/25/18 9:25	Company: TA-NAS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7, 5.4, 3.1

Ver: 09/20/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

480-143739

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R		COC No: 30-45905.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York		Job #: 480-143739-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 10/31/2018			Preservation Codes:
City: Nashville	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: TN, 37204	PO #:			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	WO #:			
Email:	Project #: 48016199			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	SSOW#:			
Site: Chevron Oceanside - CVX# 6518040				

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (w=water, s=solid, o=wastoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/8030C TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-27-D2-W-181018 (480-143739-10)	10/18/18	00:45 Eastern		Water			X	3	
MW-27-D1-W-181018 (480-143739-11)	10/18/18	00:30 Eastern		Water			X	3	
MW-29-D1-W-181018 (480-143739-12)	10/18/18	01:11 Eastern		Water			X	3	
TRIP BLANK-W-181018 (480-143739-13)	10/18/18	Eastern		Water			X	6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/24/18 1900	Company	Received by:	Date/Time: 10/25/18 9:25	Company TA-NAS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.7, 5.4, 3.1			

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-143739-1

Login Number: 143739
List Number: 1
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LEIDOS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-143739-1

Login Number: 143739
List Number: 2
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 10/20/18 12:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	526308
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	