August 14, 2018

Mr. Stephen G. Malsan
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7015

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

Dear Mr. Malsan:

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

- Surveyed ground and top of casing elevations of five newly-installed monitoring wells (AMW-7, MW-18R, MW-24-D1, MW-27-D1, and MW-24-VD) on May 11, 2018.
- Developed five newly-installed monitoring wells (AMW-7, MW-18R, MW-24-D1, MW-27-D1, and MW-24-VD) on June 6-7, 2018.
- Gauged accessible wells and deployed Hydrasleeves™ in 17 monitoring wells (AMW-7, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D3, AMW-15-VD, MW-18R, MW-23D-1R, MW-23D-2R, MW-24-D1, MW-24D2, MW-24-VD, MW-26-D1, MW-27-D1, MW-27-D2, MW-28-D2R, and MW-29-D1) on June 14-15, 2018.

- 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 July 11-13, 2018 prior to conducting the groundwater sampling.
- Removed Hydrasleeves™ and collected groundwater samples from the 17 monitoring wells on July 11-13, 2018.
- Removed the storage conex box and investigative-derived waste generated during the March drilling event on June 27, 2018.
- Coordinated with NYSDEC and other stakeholders.

ACTIONS PLANNED FOR NEXT PERIOD

- Coordinate with NYSDEC and other stakeholders.
- Drilling and installation of the sixth monitoring well (OW-3-D1) proposed for replacement.

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 11 of the 17 monitoring wells sampled (AMW-7, AMW-14-D1, AMW-14-D2, AMW-15-D3, MW-18R, MW-23-D1R, MW-23-D2R, MW-24-D1, MW-26-D1, MW-27-D1, and MW-29-D1). The reported groundwater results from monitoring wells AMW-14-VD, 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:

- The concentration of isopropylbenzene (7.1 µg/L) exceeded the TOGS Water Guidance Value (5 µg/L) at monitoring well AMW-7 located in the southwestern corner of the site near the fueling dispenser facility.
- Contaminants detected in excess of the TOGS Water Guidance Value at monitoring well AMW-14-D1 located in the western parking lot area are:
    - Benzene (5.3J µg/L); TOGS Water Guidance Value (1 µg/L),

  - Ethylbenzene (7.5J µg/L); TOGS Water Guidance Value (5 µg/L),
  - Methyl tert-butyl ether (MTBE) (160 µg/L); TOGS Water Guidance Value (10 µg/L),
  - Trans-1,2-dichloroethene (8.6 µg/L); TOGS Water Guidance Value (5 µg/L), and
  - Xylenes (16 µg/L); TOGS Water Guidance Value (µg/L).
- The concentration of MTBE (62 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-D3 located near the southwest corner of the Costco building are:
  - MTBE (22 µg/L); TOGS Water Guidance (50 µg/L),
  - Trichloroethene (20 µg/L); TOGS Water Guidance (5 µg/L)
- 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 (74J µg/L); TOGS Water Guidance (50 µg/L),
  - Acetone (330 µg/L); TOGS Water Guidance (50 µg/L),
  - Benzene (48 µg/L); TOGS Water Guidance (1 µg/L), and
  - MTBE (11J µg/L); TOGS Water Guidance (10 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 (2.7J µg/L); TOGS Water Guidance (1 µg/L) and
  - MTBE (91 µg/L); TOGS Water Guidance (10 µg/L).
- The concentration of MTBE (180 µg/L) exceeded the TOGS Water Guidance Value (10 µg/L) at monitoring well MW-23D-2R located near the southwest corner of the Costco building.
- 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 (11 µg/L); TOGS Water Guidance Value (1 µg/L),
  - Ethylbenzene (7.1J µg/L); TOGS Water Guidance Value (5 µg/L),
  - MTBE (290 µg/L); TOGS Water Guidance Value (10 µg/L),

  - Toluene (23 µg/L); TOGS Water Guidance Value (5 µg/L),
  - Trans-1,2-dichloroethene (22 µg/L); TOGS Water Guidance Value (5 µg/L),
  - Vinyl Chloride (160 µg/L); TOGS Water Guidance Value (2 µg/L), and
  - Xylenes (total) (29 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 (17 µg/L); TOGS Water Guidance (1 µg/L),
  - MTBE (220E µg/L); TOGS Water Guidance (10 µg/L), and
  - Vinyl Chloride (13 µg/L); TOGS Water Guidance (2 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 (7.8 µg/L); TOGS Water Guidance Value (1 µg/L),
  - MTBE (62 µg/L); TOGS Water Guidance Value (10 µg/L), and
  - Vinyl Chloride (88 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 (5.2 µg/L); TOGS Water Guidance Value (1 µg/L),
  - isopropylbenzene (19 µg/L); TOGS Water Guidance Value (5 µg/L),
  - MTBE (39 µg/L); TOGS Water Guidance Value (10 µg/L), and
  - Xylenes (5.5J 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. The results flagged "E" are estimated values due to the result exceeding the calibration range.

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

UNRESOLVED DELAYS ENCOUNTERED OR ANTICIPATED

- None.

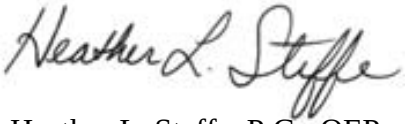
ACTIVITIES UNDERTAKEN IN SUPPORT OF CITIZEN PARTICIPATION PLAN

- 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, P.G., QEP
Senior Project Manager

Attachments:

Figure 1. Site Map
Table 1. Summary of Analytical Groundwater Results
Table 2 Summary of Groundwater Gauging Data
Test America Analytical Report No. J139008 Chevron – CVX#6518040 Oceanside, NY

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

Location ID:	TOGS 1.1.1		AMW-7	AMW-14-D1	AMW-14-D2	AMW-14-VD	AMW-15-D3	AMW-15-VD	MW-18R	MW-23D-1R	MW-23D-2R	MW-24-D1	MW-24-D2	MW-24-VD	MW-26-D1	MW-27-D1	MW-27-D2	MW-28-D2R	MW-29-D1
Date Collected:	Water Guidance	Units	07/11/18	07/12/18	07/12/18	07/12/18	07/15/18	07/15/18	07/11/18	07/12/18	07/12/18	07/12/18	07/12/18	07/12/18	07/13/18	07/13/18	07/13/18	07/13/18	07/13/18
Field Notes			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	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,1,2-Trichloroethane	1	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2-Dibromo-3-chloropropane	0.04	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2-Dibromoethane	0.0006	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichlorobenzene	3	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloroethane	0.6	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloropropane	1	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,3-Dichlorobenzene	3	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
1,4-Dichlorobenzene	3	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
2-Butanone	50	µg/L	20 U	80 U	20 U	10 U	20 U	10 U	**74 J**	40 U	80 U	80 U	20 U	40 U	20 U	20 U	40 U	40 U	40 U
2-Hexanone	50	µg/L	10 U	40 U	10 U	5.0 U	10 U	5.0 U	100 U	20 U	40 U	40 U	10 U	20 U	10 U	10 U	20 U	20 U	**9.1 J**
4-Methyl-2-pentanone	- -	µg/L	10 U	40 U	10 U	5.0 U	10 U	5.0 U	100 U	20 U	40 U	40 U	10 U	20 U	10 U	10 U	20 U	20 U	20 U
Acetone	50	µg/L	20 U	80 U	20 U	10 U	**16 J**	10 U	**330**	40 U	80 U	80 U	20 U	40 U	20 U	20 U	40 U	40 U	40 U
Benzene	1	µg/L	**0.82 J**	**5.3 J**	2.0 U	1.0 U	2.0 U	1.0 U	**48**	**2.7 J**	8.0 U	**11**	2.0 U	4.0 U	**17**	**7.8**	4.0 U	4.0 U	**5.2**
Bromodichloromethane	50	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Bromoform	50	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Bromomethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Carbon Disulfide	60	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	**0.70 J**	1.0 U	**6.2 J**	4.0 U	8.0 U	**2.1 J**	2.0 U	4.0 U	2.0 U	**0.64 J**	4.0 U	**1.0 J**	4.0 U
Carbon Tetrachloride	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chlorobenzene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chloroethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chloroform	7	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Chloromethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	**3.1**	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	**2.0**	4.0 U	4.0 U	4.0 U
cis-1,3-Dichloropropene	0.4	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Cyclohexane	- -	µg/L	**16**	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	**24**
Dibromochloromethane	50	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Dichlorodifluoromethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Ethylbenzene	5	µg/L	2.0 U	**7.5 J**	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	**7.1 J**	2.0 U	4.0 U	**3.5**	2.0 U	4.0 U	4.0 U	4.0 U
Isopropylbenzene	5	µg/L	**7.1**	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	**19**
Methyl acetate	- -	µg/L	5.0 U	20 U	5.0 U	2.5 U	5.0 U	2.5 U	50 U	10 U	20 U	20 U	5.0 U	10 U	5.0 U	5.0 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	µg/L	2.0 U	**160**	**62**	**0.49 J**	**22**	**0.44 J**	**11 J**	**91**	**180**	**290**	**2.5**	**4.2**	**220 E**	**62**	**3.4 J**	4.0 U	**39**
Methylcyclohexane	- -	µg/L	**29**	**1.7 J**	2.0 U	1.0 U	2.0 U	1.0 U	**5.1 J**	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	**11**
Methylene Chloride	5	µg/L	1.1 J	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Styrene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Tetrachloroethene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Toluene	5	µg/L	1.0 J	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	**23**	2.0 U	4.0 U	2.0 U	**1.6 J**	4.0 U	4.0 U	**3.0 J**
trans-1,2-Dichloroethene	5	µg/L	2.0 U	**8.6**	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	**22**	2.0 U	4.0 U	2.0 U	**4.1**	4.0 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	0.4	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Trichloroethene	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	**20**	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Trichlorofluoromethane	5	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Vinyl Chloride	2	µg/L	2.0 U	8.0 U	2.0 U	1.0 U	2.0 U	1.0 U	20 U	4.0 U	8.0 U	**160**	2.0 U	4.0 U	**13**	**88**	4.0 U	4.0 U	4.0 U
Xylenes (total)	5	µg/L	4.0 U	**16**	4.0 U	2.0 U	4.0 U	2.0 U	40 U	8.0 U	16 U	**29**	4.0 U	8.0 U	4.0 U	4.0 U	8.0 U	8.0 U	**5.5 J**
GC Volatiles - RSK-175																			
Carbon dioxide	- -	µg/L	**82000**	**42000**	**120000**	**120000**	**7600**	**41000**	**2200**	**6400**	**120000**	**67000**	**15000**	**89000**	**110000**	**140000**	**140000**	**91000**	**180000**
Ethane	- -	µg/L	330 U	**660 J**	330 U	7.5 U	330 U	7.5 U	660 U	330 U	170 U	**130 J**	**7.5**	**2.1 J**	330 U	660 U	330 U	330 U	660 U
Ethene	- -	µg/L	310 U	**260 J**	310 U	7.0 U	310 U	7.0 U	620 U	310 U	150 U	**1100**	**7.0**	**2.3 J**	310 U	620 U	310 U	310 U	620 U
Methane	- -	µg/L	**3500**	**2000**	**970**	**27**	**1500**	**37**	**3800**	**4800**	**730**	**5900**	**44**	**160**	**2900**	**3700**	**1500**	**880**	**15000**
Inorganics																			
Iron	0.3	mg/L	**20**	**1.6**	**2.5**	**18.4**	**3.1**	**10.6**	**1.4**	**4.3**	**0.42**	**10.1**	**1.1**	**37.9**	**0.32**	**0.82**	**4.6**	**5.2**	**1.3**
Manganese	0.3	mg/L	**2.5 B**	**0.014**	**0.078 B**	**0.41 B**	**1.1B**	**0.32 B**	**0.017 B**	**0.81**	**0.11 B**	**0.12 B**	**0.33 B**	**0.91 B**	**0.035 B**	**0.17 B**	**0.34 B**	**0.19 B**	**0.34 B**
Sodium	20	mg/L	**199**	**975**	**2210**	**8660**	**3870**	**8290**	**161**	**1360**	**1820**	**2140**	**94.9**	**8960**	**1640**	**1690**	**2530**	**3000**	**988**

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

Location ID:	TOGS 1.1.1		AMW-7	AMW-14-D1	AMW-14-D2	AMW-14-VD	AMW-15-D3	AMW-15-VD	MW-18R	MW-23D-1R	MW-23D-2R	MW-24-D1	MW-24-D2	MW-24-VD	MW-26-D1	MW-27-D1	MW-27-D2	MW-28-D2R	MW-29-D1
Date Collected:	Water Guidance	Units	07/11/18	07/12/18	07/12/18	07/12/18	07/15/18	07/15/18	07/11/18	07/12/18	07/12/18	07/12/18	07/12/18	07/12/18	07/13/18	07/13/18	07/13/18	07/13/18	07/13/18
Field Notes			Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve	Hydrasleeve
General Chemistry																			
Alkalinity, Total	- -	mg/L	**881 B**	**623 B**	**472 B**	**641 B**	**518 B**	**357 B**	**875 B**	**495 B**	**641 B**	**875 B**	**114 B**	**454 B**	**558**	**526 B**	**363 B**	**468 B**	**563 B**
Chloride	250	mg/L	**253**	**2970**	**19400**	**3620**	**4670**	**19200**	**4220**	**2250**	**3620**	**4220**	**182**	**16000**	**2810**	**2770**	**7510**	**4010**	**1680**
Ferric Iron	- -	mg/L	**19.7**	**1.5**	**18.4**	**0.42**	**3.1**	**10.6**	**10.1**	**4.0**	**0.42**	**10.1**	**1.1**	**37.8**	**0.32**	**8.0**	**4.6**	**5.2**	**1.3**
Ferrous Iron	- -	mg/L	**0.32 HF**	**0.12 HF**	0.10 U HF	0.10 U HF	0.10 U HF	0.10 U HF	0.10 U HF	**0.26 HF**	0.10 U HF	0.10 U HF	0.10 U HF	**0.10 HF**	0.10 U HF	**0.17 HF**	0.10 U HF	0.10 U HF	0.10 U HF
Nitrate as N	10	mg/L	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.051 H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H
Nitrite as N	1	mg/L	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.020 J H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H	0.050 U H
Sulfide	0.05	mg/L	**3.8**	**50.8**	**5.2 F1**	**40.0**	**22.8**	**0.80 J**	**66.4**	**28.8**	**40.0**	**66.4**	**0.80 J**	1.0 U	**44.8**	**63.2**	**10.8**	**11.2**	**1.2**
Total Organic Carbon	10	mg/L	**27.4 B**	**35.5 B**	**2.9 B**	**10.3 B**	**10.2 B**	**5.6 B**	**19.6 B**	**18.1 B**	**10.3 B**	**19.6 B**	**7.4 B**	**3.9 B**	**14.1 B**	**12.7 B**	**8.0 B**	**5.0 B**	**9.2 B**
Sulfate	250	mg/L	**41.9**	**172**	**1870**	**358**	**482**	**1890**	**200**	**149**	**358**	**200**	**28.0**	**1640**	**237**	**157**	**844**	**432**	40.0 U

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.

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
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
MW-18R	6/15/2018	2	9.85	7.98	4.82	5.13
	7/11/2018	2	9.85	7.98	4.84	5.11
D1 Horizon Monitoring Wells						
AMW-13-D1	7/13/2018	2	33.03	9.87	11.13	-1.26
AMW-14-D1	6/15/2018	2	33.15	9.38	6.40	2.98
	7/12/2018	2	33.15	9.38	10.12	-0.74
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
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
MW-24-D1	6/14/2018	2	31.75	9.82	7.17	2.65
	7/12/2018	2	31.75	9.82	8.92	0.90
MW-26-D1	7/13/2018	2	28.8	9.95	11.20	-1.25
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
MW-28-D1	7/13/2018	2	30.38	8.25	9.70	-1.45
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
MW-30-D1	7/13/2018	2	30	8.74	8.75	-0.01
MW-31-D1R	7/13/2018	2	30.04	8.39	9.30	-0.91
MW-32D	7/13/2018	2	37.45	8.85	9.91	-1.06
OW-2-D1	7/13/2018	2	33.95	9.94	9.33	0.61
D2 Horizon Monitoring Wells						
AMW-13-D2	7/27/2017	2	43.95	9.76	10.94	-1.18
AMW-14-D2	6/15/2018	2	43.17	9.37	6.40	2.97
	7/13/2018	2	43.17	9.37	10.38	-1.01
AMW-15-D2	6/14/2018	2	36.2	9.71	8.19	1.52
	7/12/2018	2	36.2	9.71	7.62	2.09
MW-23-D2R	6/14/2018	2	44.63	10.52	9.48	1.04
	7/12/2018	2	44.63	10.52	11.34	-0.82
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
MW-26-D2	7/13/2018	2	43.76	9.40	10.38	-0.98
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
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
MW-29-D2	7/13/2018	2	39.82	5.38	6.52	-1.14
MW-30-D2	7/13/2018	2	46.63	8.72	9.21	-0.49
MW-31-D2R	7/13/2018	2	45.15	8.35	9.09	-0.74
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
VD Horizon Monitoring Wells						
AMW-13-VD	7/13/2018	2	71.82	9.77	10.58	-0.81
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
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
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
MW-26-VD	7/13/2018	2	68.25	9.99	10.04	-0.05
MW-29-VD	7/13/2018	2	67.22	5.27	NG	NG
MW-30-VD	7/13/2018	4	83.40	8.70	8.56	0.14

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

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: 480-139008-1
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:
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Table of Contents

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.
E	Result exceeded calibration range.

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
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
H	Sample was prepped or analyzed beyond the specified holding time
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.
F1	MS and/or MSD Recovery is outside acceptance limits.

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)

Job ID: 480-139008-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-139008-1

Comments
No additional comments.

Receipt
The samples were received on 7/17/2018 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.9º C, 3.1º C, 3.3º C, 3.4º C and 5.8º C.

Receipt Exceptions

Samples received that were not listed on the coc. Information listed on sample containers was used for login: AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17).

Limited volume received for methods requiring unpreserved volume. Lab only received 1 out of 3 125ml polys. Methods left active and lab was informed about limited volume: AMW-7-W-180711 (480-139008-1).

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: AMW-7-W-180711 (480-139008-1), MW-18R-W-180711 (480-139008-5), MW-24-D2-W-180712 (480-139008-9), MW-24-VD-W-180712 (480-139008-10), MW-27-D2-W-180713 (480-139008-13) and MW-28-D2R-W-180713 (480-139008-14). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: AMW-14-D1-W-180712 (480-139008-2), AMW-14-D2-W-180712 (480-139008-3), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-26-D1-W-180713 (480-139008-11), MW-27-D1-W-180713 (480-139008-12), (480-139008-I-7 MS) and (480-139008-I-7 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-29-D1-W-180713 (480-139008-15). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-26-D1-W-180713 (480-139008-11). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: AMW-15-D3-W-180713 (480-139008-16). 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.

HPLC/IC
Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: AMW-7-W-180711 (480-139008-1), AMW-14-D1-W-180712 (480-139008-2) and AMW-14-D2-W-180712 (480-139008-3). 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-180712 (480-139008-4), MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-24-D2-W-180712 (480-139008-9), MW-24-VD-W-180712 (480-139008-10), MW-26-D1-W-180713 (480-139008-11), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), MW-28-D2R-W-180713 (480-139008-14), MW-29-D1-W-180713 (480-139008-15), AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17). 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-180712 (480-139008-4), MW-23D-1R-W-180712 (480-139008-6), MW-24-VD-W-180712 (480-139008-10), MW-26-D1-W-180713 (480-139008-11), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13) and

Job ID: 480-139008-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

AMW-15-VD-W-180713 (480-139008-17). 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-7-W-180711 (480-139008-1) and AMW-14-D1-W-180712 (480-139008-2). 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: AMW-14-D2-W-180712 (480-139008-3), MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-26-D1-W-180713 (480-139008-11), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), MW-28-D2R-W-180713 (480-139008-14) and AMW-15-D3-W-180713 (480-139008-16). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-29-D1-W-180713 (480-139008-15). 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
Method(s) 353.2: The following samples were received outside of holding time: AMW-7-W-180711 (480-139008-1), AMW-14-D1-W-180712 (480-139008-2), AMW-14-D2-W-180712 (480-139008-3), AMW-14-VD-W-180712 (480-139008-4), MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-24-D2-W-180712 (480-139008-9), MW-24-VD-W-180712 (480-139008-10), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17).

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-7-W-180711 (480-139008-1), AMW-14-D1-W-180712 (480-139008-2), AMW-14-D2-W-180712 (480-139008-3), AMW-14-VD-W-180712 (480-139008-4), MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-24-D2-W-180712 (480-139008-9), MW-24-VD-W-180712 (480-139008-10), MW-26-D1-W-180713 (480-139008-11), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), MW-28-D2R-W-180713 (480-139008-14), MW-29-D1-W-180713 (480-139008-15), AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17).

Method(s) 353.2: The following samples were received outside of holding time: AMW-7-W-180711 (480-139008-1), AMW-14-D1-W-180712 (480-139008-2), AMW-14-D2-W-180712 (480-139008-3), AMW-14-VD-W-180712 (480-139008-4), MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-24-VD-W-180712 (480-139008-10), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17).

Method(s) 353.2: The following sample was received outside of holding time: MW-24-D2-W-180712 (480-139008-9).

Method(s) 353.2: The following samples were received outside of holding time: MW-26-D1-W-180713 (480-139008-11), MW-28-D2R-W-180713 (480-139008-14) and MW-29-D1-W-180713 (480-139008-15).

Method(s) Nitrate by calc: The following samples were received outside of holding time: MW-26-D1-W-180713 (480-139008-11), MW-28-D2R-W-180713 (480-139008-14) and MW-29-D1-W-180713 (480-139008-15).

Method(s) Nitrate by calc: The following samples were received outside of holding time: AMW-7-W-180711 (480-139008-1), AMW-14-D1-W-180712 (480-139008-2), AMW-14-D2-W-180712 (480-139008-3), AMW-14-VD-W-180712 (480-139008-4),

Job ID: 480-139008-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

MW-18R-W-180711 (480-139008-5), MW-23D-1R-W-180712 (480-139008-6), MW-23D-2R-W-180712 (480-139008-7), MW-24-D1-W-180712 (480-139008-8), MW-24-VD-W-180712 (480-139008-10), MW-27-D1-W-180713 (480-139008-12), MW-27-D2-W-180713 (480-139008-13), AMW-15-D3-W-180713 (480-139008-16) and AMW-15-VD-W-180713 (480-139008-17).

Method(s) Nitrate by calc: The following sample was received outside of holding time: MW-24-D2-W-180712 (480-139008-9).

Method(s) 353.2: The following samples were received outside of holding time: MW-26-D1-W-180713 (480-139008-11), MW-28-D2R-W-180713 (480-139008-14) and MW-29-D1-W-180713 (480-139008-15).

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

Detection Summary

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: AMW-7-W-180711 — Lab Sample ID: 480-139008-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.82	J	2.0	0.82	ug/L	2		8260C	Total/NA
Cyclohexane	16		2.0	0.36	ug/L	2		8260C	Total/NA
Isopropylbenzene	7.1		2.0	1.6	ug/L	2		8260C	Total/NA
Methylcyclohexane	29		2.0	0.32	ug/L	2		8260C	Total/NA
Methylene Chloride	1.1	J	2.0	0.88	ug/L	2		8260C	Total/NA
Toluene	1.0	J	2.0	1.0	ug/L	2		8260C	Total/NA
Carbon dioxide	82000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	3500		180	44	ug/L	44		RSK-175	Total/NA
Iron	20.0		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	2.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	199		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	253		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	41.9		10.0	1.7	mg/L	5		300.0	Total/NA
Alkalinity, Total	881	B	90.0	36.0	mg/L	9		310.2	Total/NA
Total Organic Carbon	27.4	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	19.7		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.32	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	3.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-14-D1-W-180712 — Lab Sample ID: 480-139008-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.3	J	8.0	3.3	ug/L	8		8260C	Total/NA
Ethylbenzene	7.5	J	8.0	5.9	ug/L	8		8260C	Total/NA
Methyl tert-butyl ether	160		8.0	1.3	ug/L	8		8260C	Total/NA
Methylcyclohexane	1.7	J	8.0	1.3	ug/L	8		8260C	Total/NA
trans-1,2-Dichloroethene	8.6		8.0	7.2	ug/L	8		8260C	Total/NA
Xylenes, Total	16		16	5.3	ug/L	8		8260C	Total/NA
Carbon dioxide	42000		5000	1900	ug/L	1		RSK-175	Total/NA
Ethene	260	J	620	130	ug/L	88		RSK-175	Total/NA
Methane	2000		350	88	ug/L	88		RSK-175	Total/NA
Iron	1.6		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.014	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	975		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2970		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	172		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	623	B	70.0	28.0	mg/L	7		310.2	Total/NA
Total Organic Carbon	35.5	B	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
Ferrous Iron	0.12	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	50.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-14-D2-W-180712 — Lab Sample ID: 480-139008-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	62		2.0	0.32	ug/L	2		8260C	Total/NA
Carbon dioxide	120000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	970		180	44	ug/L	44		RSK-175	Total/NA
Iron	2.5		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.078	B	0.0030	0.00040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: AMW-14-D2-W-180712 (Continued) — Lab Sample ID: 480-139008-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	2210		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4380		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	315		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	785	B	90.0	36.0	mg/L	9		310.2	Total/NA
Total Organic Carbon	12.7	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	2.5		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	56.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-14-VD-W-180712 — Lab Sample ID: 480-139008-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.49	J	1.0	0.16	ug/L	1		8260C	Total/NA
Carbon dioxide	120000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	27		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	18.4		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.41	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	8660		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	19400		250	141	mg/L	500		300.0	Total/NA
Sulfate	1870		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	472	B	50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	2.9	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	18.4		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	5.2	F1	1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-18R-W-180711 — Lab Sample ID: 480-139008-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	74	J	200	26	ug/L	20		8260C	Total/NA
Acetone	330		200	60	ug/L	20		8260C	Total/NA
Benzene	48		20	8.2	ug/L	20		8260C	Total/NA
Carbon disulfide	6.2	J	20	3.8	ug/L	20		8260C	Total/NA
Methyl tert-butyl ether	11	J	20	3.2	ug/L	20		8260C	Total/NA
Methylcyclohexane	5.1	J	20	3.2	ug/L	20		8260C	Total/NA
Carbon dioxide	2200	J	5000	1900	ug/L	1		RSK-175	Total/NA
Methane	3800		350	88	ug/L	88		RSK-175	Total/NA
Iron	1.4		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.017	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	161		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	367		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	120		10.0	1.7	mg/L	5		300.0	Total/NA
Alkalinity, Total	184	B	20.0	8.0	mg/L	2		310.2	Total/NA
Total Organic Carbon	184	B	4.0	1.7	mg/L	4		9060A	Total/NA
Ferric Iron	1.3		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.11	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	12.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-23D-1R-W-180712 — Lab Sample ID: 480-139008-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.7	J	4.0	1.6	ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-23D-1R-W-180712 (Continued) — Lab Sample ID: 480-139008-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	91		4.0	0.64	ug/L	4		8260C	Total/NA
Carbon dioxide	64000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	4800		180	44	ug/L	44		RSK-175	Total/NA
Iron	4.3		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.81	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1360		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2250		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	149		40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	495	B	60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	18.1	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	4.0		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	28.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-23D-2R-W-180712 — Lab Sample ID: 480-139008-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	180		8.0	1.3	ug/L	8		8260C	Total/NA
Carbon dioxide	120000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	730		88	22	ug/L	22		RSK-175	Total/NA
Iron	0.42		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.11	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1820		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3620		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	358		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	641	B	70.0	28.0	mg/L	7		310.2	Total/NA
Total Organic Carbon	10.3	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.42		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	40.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-24-D1-W-180712 — Lab Sample ID: 480-139008-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		8.0	3.3	ug/L	8		8260C	Total/NA
Carbon disulfide	2.1	J	8.0	1.5	ug/L	8		8260C	Total/NA
Ethylbenzene	7.1	J	8.0	5.9	ug/L	8		8260C	Total/NA
Methyl tert-butyl ether	290		8.0	1.3	ug/L	8		8260C	Total/NA
Toluene	23		8.0	4.1	ug/L	8		8260C	Total/NA
trans-1,2-Dichloroethene	22		8.0	7.2	ug/L	8		8260C	Total/NA
Vinyl chloride	160		8.0	7.2	ug/L	8		8260C	Total/NA
Xylenes, Total	29		16	5.3	ug/L	8		8260C	Total/NA
Carbon dioxide	67000		5000	1900	ug/L	1		RSK-175	Total/NA
Ethane	130	J	330	66	ug/L	44		RSK-175	Total/NA
Ethene	1100		310	66	ug/L	44		RSK-175	Total/NA
Methane	5900		180	44	ug/L	44		RSK-175	Total/NA
Iron	10.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.12	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2140		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4220		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	200		100	17.5	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-24-D1-W-180712 (Continued) — Lab Sample ID: 480-139008-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	875	B	100	40.0	mg/L	10		310.2	Total/NA
Total Organic Carbon	19.6	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	10.1		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	66.4		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-24-D2-W-180712 — Lab Sample ID: 480-139008-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.5		2.0	0.32	ug/L	2		8260C	Total/NA
Carbon dioxide	15000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	44		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.033	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	94.9		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	182		1.0	0.56	mg/L	2		300.0	Total/NA
Sulfate	28.0		4.0	0.70	mg/L	2		300.0	Total/NA
Alkalinity, Total	114	B	20.0	8.0	mg/L	2		310.2	Total/NA
Nitrate as N	0.051	H	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite as N	0.020	J H	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	7.4	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	1.1		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-180712 — Lab Sample ID: 480-139008-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.2		4.0	0.64	ug/L	4		8260C	Total/NA
Carbon dioxide	89000		5000	1900	ug/L	1		RSK-175	Total/NA
Ethane	2.1	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	2.3	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	160		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	37.9		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.91	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	8960		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	16000		250	141	mg/L	500		300.0	Total/NA
Sulfate	1640		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	454	B	50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	3.9	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	37.8		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.10	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-26-D1-W-180713 — Lab Sample ID: 480-139008-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	3.5		2.0	1.5	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	220	E	2.0	0.32	ug/L	2		8260C	Total/NA
Vinyl chloride	13		2.0	1.8	ug/L	2		8260C	Total/NA
Benzene - DL	15		5.0	2.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether - DL	210		5.0	0.80	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-26-D1-W-180713 (Continued)

Lab Sample ID: 480-139008-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride - DL	13		5.0	4.5	ug/L	5		8260C	Total/NA
Carbon dioxide	110000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	2900		180	44	ug/L	44		RSK-175	Total/NA
Iron	0.32		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.035	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1640		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	2810		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	237		40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	558		60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	14.1	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	0.32		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	44.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-27-D1-W-180713

Lab Sample ID: 480-139008-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		2.0	0.82	ug/L	2		8260C	Total/NA
Carbon disulfide	0.64	J	2.0	0.38	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	2.0		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	62		2.0	0.32	ug/L	2		8260C	Total/NA
Toluene	1.6	J	2.0	1.0	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	4.1		2.0	1.8	ug/L	2		8260C	Total/NA
Vinyl chloride	88		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	140000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	3700		350	88	ug/L	88		RSK-175	Total/NA
Iron	8.2		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.17	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	1690		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2770		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	157		40.0	7.0	mg/L	20		300.0	Total/NA
Alkalinity, Total	526	B	60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	12.7	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	8.0		0.10	0.075	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.17	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-27-D2-W-180713

Lab Sample ID: 480-139008-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.4	J	4.0	0.64	ug/L	4		8260C	Total/NA
Carbon dioxide	140000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1500		180	44	ug/L	44		RSK-175	Total/NA
Iron	4.6		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.34	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	2530		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	7510		100	56.4	mg/L	200		300.0	Total/NA
Sulfate	844		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	363	B	40.0	16.0	mg/L	4		310.2	Total/NA
Total Organic Carbon	8.0	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	4.6		0.10	0.075	mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-27-D2-W-180713 (Continued) — Lab Sample ID: 480-139008-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	10.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-28-D2R-W-180713 — Lab Sample ID: 480-139008-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	J	4.0	0.76	ug/L	4		8260C	Total/NA
Carbon dioxide	91000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	880		180	44	ug/L	44		RSK-175	Total/NA
Iron	5.2		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.19	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	3000		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4010		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	432		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	468	B	50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	5.0	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	5.2		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	11.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-29-D1-W-180713 — Lab Sample ID: 480-139008-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	9.1	J	20	5.0	ug/L	4		8260C	Total/NA
Benzene	5.2		4.0	1.6	ug/L	4		8260C	Total/NA
Cyclohexane	24		4.0	0.72	ug/L	4		8260C	Total/NA
Isopropylbenzene	19		4.0	3.2	ug/L	4		8260C	Total/NA
Methyl tert-butyl ether	39		4.0	0.64	ug/L	4		8260C	Total/NA
Methylcyclohexane	11		4.0	0.64	ug/L	4		8260C	Total/NA
Toluene	3.0	J	4.0	2.0	ug/L	4		8260C	Total/NA
Xylenes, Total	5.5	J	8.0	2.6	ug/L	4		8260C	Total/NA
Carbon dioxide	180000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	15000		350	88	ug/L	88		RSK-175	Total/NA
Iron	1.3		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.34	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	988		2.0	0.65	mg/L	2		6010C	Total/NA
Chloride	1680		10.0	5.6	mg/L	20		300.0	Total/NA
Alkalinity, Total	563	B	60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	9.2	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	1.3		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	1.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-D3-W-180713 — Lab Sample ID: 480-139008-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	20	6.0	ug/L	2		8260C	Total/NA
Carbon disulfide	0.70	J	2.0	0.38	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	3.1		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	22		2.0	0.32	ug/L	2		8260C	Total/NA
Trichloroethene	20		2.0	0.92	ug/L	2		8260C	Total/NA
Carbon dioxide	7600		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	1500		180	44	ug/L	44		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMW-15-D3-W-180713 (Continued)

Lab Sample ID: 480-139008-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.1		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	3870		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4670		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	482		100	17.5	mg/L	50		300.0	Total/NA
Alkalinity, Total	518	B	60.0	24.0	mg/L	6		310.2	Total/NA
Total Organic Carbon	10.2	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	3.1		0.10	0.075	mg/L	1		SM 3500	Total/NA
Sulfide	22.8		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: AMW-15-VD-W-180713

Lab Sample ID: 480-139008-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.44	J	1.0	0.16	ug/L	1		8260C	Total/NA
Carbon dioxide	41000		5000	1900	ug/L	1		RSK-175	Total/NA
Methane	37		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	10.6		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.32	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Sodium	8290		20.0	6.5	mg/L	20		6010C	Total/NA
Chloride	19200		250	141	mg/L	500		300.0	Total/NA
Sulfate	1890		200	34.9	mg/L	100		300.0	Total/NA
Alkalinity, Total	357	B	50.0	20.0	mg/L	5		310.2	Total/NA
Total Organic Carbon	5.6	B	1.0	0.43	mg/L	1		9060A	Total/NA
Ferric Iron	10.6		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

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMW-7-W-180711
Date Collected: 07/11/18 23:48
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-1
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	2.0	U	2.0	1.6	ug/L			07/20/18 22:42	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/20/18 22:42	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/20/18 22:42	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/20/18 22:42	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/20/18 22:42	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/20/18 22:42	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/20/18 22:42	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/20/18 22:42	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/20/18 22:42	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/20/18 22:42	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/20/18 22:42	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/20/18 22:42	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/20/18 22:42	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/20/18 22:42	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/20/18 22:42	2
2-Hexanone	10	U	10	2.5	ug/L			07/20/18 22:42	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/20/18 22:42	2
Acetone	20	U	20	6.0	ug/L			07/20/18 22:42	2
Benzene	**0.82**	**J**	2.0	0.82	ug/L			07/20/18 22:42	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/20/18 22:42	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/20/18 22:42	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/20/18 22:42	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			07/20/18 22:42	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/20/18 22:42	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/20/18 22:42	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/20/18 22:42	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/20/18 22:42	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/20/18 22:42	2
cis-1,2-Dichloroethene	2.0	U	2.0	1.6	ug/L			07/20/18 22:42	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			07/20/18 22:42	2
Cyclohexane	**16**		2.0	0.36	ug/L			07/20/18 22:42	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/20/18 22:42	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/20/18 22:42	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			07/20/18 22:42	2
Isopropylbenzene	**7.1**		2.0	1.6	ug/L			07/20/18 22:42	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/20/18 22:42	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			07/20/18 22:42	2
Methylcyclohexane	**29**		2.0	0.32	ug/L			07/20/18 22:42	2
Methylene Chloride	**1.1**	**J**	2.0	0.88	ug/L			07/20/18 22:42	2
Styrene	2.0	U	2.0	1.5	ug/L			07/20/18 22:42	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/20/18 22:42	2
Toluene	**1.0**	**J**	2.0	1.0	ug/L			07/20/18 22:42	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			07/20/18 22:42	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/20/18 22:42	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			07/20/18 22:42	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/20/18 22:42	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			07/20/18 22:42	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/20/18 22:42	2

Client Sample ID: AMW-7-W-180711

Lab Sample ID: 480-139008-1

Date Collected: 07/11/18 23:48

Matrix: Water

Date Received: 07/17/18 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/20/18 22:42*	*2*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*07/20/18 22:42*	*2*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*07/20/18 22:42*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/20/18 22:42*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**82000**		5000	1900	ug/L			07/18/18 16:40	1
Ethane	330	U	330	66	ug/L			07/18/18 15:42	44
Ethene	310	U	310	66	ug/L			07/18/18 15:42	44
Methane	**3500**		180	44	ug/L			07/18/18 15:42	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**20.0**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:01	1
Manganese	**2.5**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:01	1
Sodium	**199**		1.0	0.32	mg/L		07/18/18 08:55	07/19/18 00:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		2.5	1.4	mg/L			07/26/18 02:37	5
Sulfate	**41.9**		10.0	1.7	mg/L			07/26/18 02:37	5
Alkalinity, Total	**881**	**B**	90.0	36.0	mg/L			07/19/18 13:15	9
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:13	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:13	1
Total Organic Carbon	**27.4**	**B**	1.0	0.43	mg/L			07/25/18 13:14	1
Ferric Iron	**19.7**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.32**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**3.8**		1.0	0.67	mg/L			07/18/18 14:45	1

Client Sample ID: AMW-14-D1-W-180712

Lab Sample ID: 480-139008-2

Date Collected: 07/12/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.0	U	8.0	6.6	ug/L			07/20/18 23:05	8
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.7	ug/L			07/20/18 23:05	8
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	8.0	2.5	ug/L			07/20/18 23:05	8
1,1,2-Trichloroethane	8.0	U	8.0	1.8	ug/L			07/20/18 23:05	8
1,1-Dichloroethane	8.0	U	8.0	3.0	ug/L			07/20/18 23:05	8
1,1-Dichloroethene	8.0	U	8.0	2.3	ug/L			07/20/18 23:05	8
1,2,4-Trichlorobenzene	8.0	U	8.0	3.3	ug/L			07/20/18 23:05	8
1,2-Dibromo-3-Chloropropane	8.0	U	8.0	3.1	ug/L			07/20/18 23:05	8
1,2-Dibromoethane	8.0	U	8.0	5.8	ug/L			07/20/18 23:05	8
1,2-Dichlorobenzene	8.0	U	8.0	6.3	ug/L			07/20/18 23:05	8
1,2-Dichloroethane	8.0	U	8.0	1.7	ug/L			07/20/18 23:05	8
1,2-Dichloropropane	8.0	U	8.0	5.8	ug/L			07/20/18 23:05	8
1,3-Dichlorobenzene	8.0	U	8.0	6.2	ug/L			07/20/18 23:05	8
1,4-Dichlorobenzene	8.0	U	8.0	6.7	ug/L			07/20/18 23:05	8
2-Butanone (MEK)	80	U	80	11	ug/L			07/20/18 23:05	8

Client Sample ID: AMW-14-D1-W-180712

Date Collected: 07/12/18 01:35
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	40	U	40	9.9	ug/L			07/20/18 23:05	8
4-Methyl-2-pentanone (MIBK)	40	U	40	17	ug/L			07/20/18 23:05	8
Acetone	80	U	80	24	ug/L			07/20/18 23:05	8
Benzene	**5.3**	**J**	8.0	3.3	ug/L			07/20/18 23:05	8
Bromodichloromethane	8.0	U	8.0	3.1	ug/L			07/20/18 23:05	8
Bromoform	8.0	U	8.0	2.1	ug/L			07/20/18 23:05	8
Bromomethane	8.0	U	8.0	5.5	ug/L			07/20/18 23:05	8
Carbon disulfide	8.0	U	8.0	1.5	ug/L			07/20/18 23:05	8
Carbon tetrachloride	8.0	U	8.0	2.2	ug/L			07/20/18 23:05	8
Chlorobenzene	8.0	U	8.0	6.0	ug/L			07/20/18 23:05	8
Chloroethane	8.0	U	8.0	2.6	ug/L			07/20/18 23:05	8
Chloroform	8.0	U	8.0	2.7	ug/L			07/20/18 23:05	8
Chloromethane	8.0	U	8.0	2.8	ug/L			07/20/18 23:05	8
cis-1,2-Dichloroethene	8.0	U	8.0	6.5	ug/L			07/20/18 23:05	8
cis-1,3-Dichloropropene	8.0	U	8.0	2.9	ug/L			07/20/18 23:05	8
Cyclohexane	8.0	U	8.0	1.4	ug/L			07/20/18 23:05	8
Dibromochloromethane	8.0	U	8.0	2.6	ug/L			07/20/18 23:05	8
Dichlorodifluoromethane	8.0	U	8.0	5.4	ug/L			07/20/18 23:05	8
Ethylbenzene	**7.5**	**J**	8.0	5.9	ug/L			07/20/18 23:05	8
Isopropylbenzene	8.0	U	8.0	6.3	ug/L			07/20/18 23:05	8
Methyl acetate	20	U	20	10	ug/L			07/20/18 23:05	8
Methyl tert-butyl ether	**160**		8.0	1.3	ug/L			07/20/18 23:05	8
Methylcyclohexane	**1.7**	**J**	8.0	1.3	ug/L			07/20/18 23:05	8
Methylene Chloride	8.0	U	8.0	3.5	ug/L			07/20/18 23:05	8
Styrene	8.0	U	8.0	5.8	ug/L			07/20/18 23:05	8
Tetrachloroethene	8.0	U	8.0	2.9	ug/L			07/20/18 23:05	8
Toluene	8.0	U	8.0	4.1	ug/L			07/20/18 23:05	8
trans-1,2-Dichloroethene	**8.6**		8.0	7.2	ug/L			07/20/18 23:05	8
trans-1,3-Dichloropropene	8.0	U	8.0	3.0	ug/L			07/20/18 23:05	8
Trichloroethene	8.0	U	8.0	3.7	ug/L			07/20/18 23:05	8
Trichlorofluoromethane	8.0	U	8.0	7.0	ug/L			07/20/18 23:05	8
Vinyl chloride	8.0	U	8.0	7.2	ug/L			07/20/18 23:05	8
Xylenes, Total	**16**		16	5.3	ug/L			07/20/18 23:05	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*07/20/18 23:05*	*8*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/20/18 23:05*	*8*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/20/18 23:05*	*8*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/20/18 23:05*	*8*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**42000**		5000	1900	ug/L			07/18/18 16:49	1
Ethane	660	U	660	130	ug/L			07/18/18 16:23	88
Ethene	**260**	**J**	620	130	ug/L			07/18/18 16:23	88
Methane	**2000**		350	88	ug/L			07/18/18 16:23	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.6**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:05	1

Client Sample ID: AMW-14-D1-W-180712

Lab Sample ID: 480-139008-2

Date Collected: 07/12/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.014**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:05	1
Sodium	**975**		2.0	0.65	mg/L		07/18/18 08:55	07/19/18 13:34	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2970**		25.0	14.1	mg/L			07/26/18 02:52	50
Sulfate	**172**		100	17.5	mg/L			07/26/18 02:52	50
Alkalinity, Total	**623**	**B**	70.0	28.0	mg/L			07/18/18 15:16	7
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:14	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:14	1
Total Organic Carbon	**35.5**	**B**	1.0	0.43	mg/L			07/27/18 00:48	1
Ferric Iron	**1.5**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.12**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**50.8**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: AMW-14-D2-W-180712

Lab Sample ID: 480-139008-3

Date Collected: 07/12/18 01:20

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			07/20/18 23:29	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/20/18 23:29	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/20/18 23:29	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/20/18 23:29	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/20/18 23:29	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/20/18 23:29	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/20/18 23:29	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/20/18 23:29	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/20/18 23:29	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/20/18 23:29	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/20/18 23:29	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/20/18 23:29	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/20/18 23:29	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/20/18 23:29	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/20/18 23:29	2
2-Hexanone	10	U	10	2.5	ug/L			07/20/18 23:29	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/20/18 23:29	2
Acetone	20	U	20	6.0	ug/L			07/20/18 23:29	2
Benzene	2.0	U	2.0	0.82	ug/L			07/20/18 23:29	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/20/18 23:29	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/20/18 23:29	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/20/18 23:29	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			07/20/18 23:29	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/20/18 23:29	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/20/18 23:29	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/20/18 23:29	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/20/18 23:29	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/20/18 23:29	2
cis-1,2-Dichloroethene	2.0	U	2.0	1.6	ug/L			07/20/18 23:29	2

Client Sample ID: AMW-14-D2-W-180712
Date Collected: 07/12/18 01:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-3
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	2.0	U	2.0	0.72	ug/L			07/20/18 23:29	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			07/20/18 23:29	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/20/18 23:29	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/20/18 23:29	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			07/20/18 23:29	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			07/20/18 23:29	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/20/18 23:29	2
Methyl tert-butyl ether	**62**		2.0	0.32	ug/L			07/20/18 23:29	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			07/20/18 23:29	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			07/20/18 23:29	2
Styrene	2.0	U	2.0	1.5	ug/L			07/20/18 23:29	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/20/18 23:29	2
Toluene	2.0	U	2.0	1.0	ug/L			07/20/18 23:29	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			07/20/18 23:29	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/20/18 23:29	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			07/20/18 23:29	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/20/18 23:29	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			07/20/18 23:29	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/20/18 23:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/20/18 23:29*	*2*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/20/18 23:29*	*2*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*07/20/18 23:29*	*2*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/20/18 23:29*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**120000**		5000	1900	ug/L			07/18/18 16:58	1
Ethane	330	U	330	66	ug/L			07/20/18 10:39	44
Ethene	310	U	310	66	ug/L			07/20/18 10:39	44
Methane	**970**		180	44	ug/L			07/20/18 10:39	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.5**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:09	1
Manganese	**0.078**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:09	1
Sodium	**2210**		5.0	1.6	mg/L		07/18/18 08:55	07/19/18 13:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4380**		25.0	14.1	mg/L			07/26/18 03:06	50
Sulfate	**315**		100	17.5	mg/L			07/26/18 03:06	50
Alkalinity, Total	**785**	**B**	90.0	36.0	mg/L			07/18/18 15:16	9
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:15	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:15	1
Total Organic Carbon	**12.7**	**B**	1.0	0.43	mg/L			07/27/18 01:16	1
Ferric Iron	**2.5**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**56.0**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: AMW-14-VD-W-180712
Date Collected: 07/12/18 01:05
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-4
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	0.82	ug/L			07/20/18 23:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			07/20/18 23:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/20/18 23:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/20/18 23:52	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			07/20/18 23:52	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/20/18 23:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			07/20/18 23:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			07/20/18 23:52	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			07/20/18 23:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			07/20/18 23:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			07/20/18 23:52	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			07/20/18 23:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			07/20/18 23:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			07/20/18 23:52	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			07/20/18 23:52	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			07/20/18 23:52	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			07/20/18 23:52	1
Acetone	10	U	10	3.0	ug/L			07/20/18 23:52	1
Benzene	1.0	U	1.0	0.41	ug/L			07/20/18 23:52	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			07/20/18 23:52	1
Bromoform	1.0	U	1.0	0.26	ug/L			07/20/18 23:52	1
Bromomethane	1.0	U	1.0	0.69	ug/L			07/20/18 23:52	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			07/20/18 23:52	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			07/20/18 23:52	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			07/20/18 23:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/20/18 23:52	1
Chloroform	1.0	U	1.0	0.34	ug/L			07/20/18 23:52	1
Chloromethane	1.0	U	1.0	0.35	ug/L			07/20/18 23:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			07/20/18 23:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			07/20/18 23:52	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			07/20/18 23:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			07/20/18 23:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			07/20/18 23:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			07/20/18 23:52	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			07/20/18 23:52	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			07/20/18 23:52	1
Methyl tert-butyl ether	**0.49**	**J**	1.0	0.16	ug/L			07/20/18 23:52	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			07/20/18 23:52	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			07/20/18 23:52	1
Styrene	1.0	U	1.0	0.73	ug/L			07/20/18 23:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			07/20/18 23:52	1
Toluene	1.0	U	1.0	0.51	ug/L			07/20/18 23:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			07/20/18 23:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			07/20/18 23:52	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			07/20/18 23:52	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			07/20/18 23:52	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			07/20/18 23:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			07/20/18 23:52	1

Client Sample ID: AMW-14-VD-W-180712

Lab Sample ID: 480-139008-4

Date Collected: 07/12/18 01:05

Matrix: Water

Date Received: 07/17/18 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*07/20/18 23:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/20/18 23:52*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*07/20/18 23:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/20/18 23:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**120000**		5000	1900	ug/L			07/18/18 17:06	1
Ethane	7.5	U	7.5	1.5	ug/L			07/20/18 10:56	1
Ethene	7.0	U	7.0	1.5	ug/L			07/20/18 10:56	1
Methane	**27**		4.0	1.0	ug/L			07/20/18 10:56	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**18.4**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:13	1
Manganese	**0.41**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:13	1
Sodium	**8660**		20.0	6.5	mg/L		07/18/18 08:55	07/19/18 13:42	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19400**		250	141	mg/L			07/28/18 01:07	500
Sulfate	**1870**		200	34.9	mg/L			07/26/18 20:25	100
Alkalinity, Total	**472**	**B**	50.0	20.0	mg/L			07/18/18 15:06	5
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:16	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:16	1
Total Organic Carbon	**2.9**	**B**	1.0	0.43	mg/L			07/27/18 01:44	1
Ferric Iron	**18.4**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**5.2**	**F1**	1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-18R-W-180711

Lab Sample ID: 480-139008-5

Date Collected: 07/11/18 22:50

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20	16	ug/L			07/21/18 00:15	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			07/21/18 00:15	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2	ug/L			07/21/18 00:15	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			07/21/18 00:15	20
1,1-Dichloroethane	20	U	20	7.6	ug/L			07/21/18 00:15	20
1,1-Dichloroethene	20	U	20	5.8	ug/L			07/21/18 00:15	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			07/21/18 00:15	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			07/21/18 00:15	20
1,2-Dibromoethane	20	U	20	15	ug/L			07/21/18 00:15	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			07/21/18 00:15	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			07/21/18 00:15	20
1,2-Dichloropropane	20	U	20	14	ug/L			07/21/18 00:15	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			07/21/18 00:15	20
1,4-Dichlorobenzene	20	U	20	17	ug/L			07/21/18 00:15	20
2-Butanone (MEK)	**74**	**J**	200	26	ug/L			07/21/18 00:15	20

Client Sample ID: MW-18R-W-180711
Date Collected: 07/11/18 22:50
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	100	U	100	25	ug/L			07/21/18 00:15	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			07/21/18 00:15	20
Acetone	**330**		200	60	ug/L			07/21/18 00:15	20
Benzene	**48**		20	8.2	ug/L			07/21/18 00:15	20
Bromodichloromethane	20	U	20	7.8	ug/L			07/21/18 00:15	20
Bromoform	20	U	20	5.2	ug/L			07/21/18 00:15	20
Bromomethane	20	U	20	14	ug/L			07/21/18 00:15	20
Carbon disulfide	**6.2**	**J**	20	3.8	ug/L			07/21/18 00:15	20
Carbon tetrachloride	20	U	20	5.4	ug/L			07/21/18 00:15	20
Chlorobenzene	20	U	20	15	ug/L			07/21/18 00:15	20
Chloroethane	20	U	20	6.4	ug/L			07/21/18 00:15	20
Chloroform	20	U	20	6.8	ug/L			07/21/18 00:15	20
Chloromethane	20	U	20	7.0	ug/L			07/21/18 00:15	20
cis-1,2-Dichloroethene	20	U	20	16	ug/L			07/21/18 00:15	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			07/21/18 00:15	20
Cyclohexane	20	U	20	3.6	ug/L			07/21/18 00:15	20
Dibromochloromethane	20	U	20	6.4	ug/L			07/21/18 00:15	20
Dichlorodifluoromethane	20	U	20	14	ug/L			07/21/18 00:15	20
Ethylbenzene	20	U	20	15	ug/L			07/21/18 00:15	20
Isopropylbenzene	20	U	20	16	ug/L			07/21/18 00:15	20
Methyl acetate	50	U	50	26	ug/L			07/21/18 00:15	20
Methyl tert-butyl ether	**11**	**J**	20	3.2	ug/L			07/21/18 00:15	20
Methylcyclohexane	**5.1**	**J**	20	3.2	ug/L			07/21/18 00:15	20
Methylene Chloride	20	U	20	8.8	ug/L			07/21/18 00:15	20
Styrene	20	U	20	15	ug/L			07/21/18 00:15	20
Tetrachloroethene	20	U	20	7.2	ug/L			07/21/18 00:15	20
Toluene	20	U	20	10	ug/L			07/21/18 00:15	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			07/21/18 00:15	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			07/21/18 00:15	20
Trichloroethene	20	U	20	9.2	ug/L			07/21/18 00:15	20
Trichlorofluoromethane	20	U	20	18	ug/L			07/21/18 00:15	20
Vinyl chloride	20	U	20	18	ug/L			07/21/18 00:15	20
Xylenes, Total	40	U	40	13	ug/L			07/21/18 00:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/21/18 00:15*	*20*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/21/18 00:15*	*20*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/21/18 00:15*	*20*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/21/18 00:15*	*20*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**2200**	**J**	5000	1900	ug/L			07/18/18 17:15	1
Ethane	660	U	660	130	ug/L			07/20/18 11:14	88
Ethene	620	U	620	130	ug/L			07/20/18 11:14	88
Methane	**3800**		350	88	ug/L			07/20/18 11:14	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.4**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:17	1

Client Sample ID: MW-18R-W-180711

Lab Sample ID: 480-139008-5

Date Collected: 07/11/18 22:50

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.017**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:17	1
Sodium	**161**		1.0	0.32	mg/L		07/18/18 08:55	07/19/18 00:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**367**		2.5	1.4	mg/L			07/26/18 20:33	5
Sulfate	**120**		10.0	1.7	mg/L			07/26/18 20:33	5
Alkalinity, Total	**184**	**B**	20.0	8.0	mg/L			07/18/18 15:06	2
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:22	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:22	1
Total Organic Carbon	**184**	**B**	4.0	1.7	mg/L			07/26/18 06:59	4
Ferric Iron	**1.3**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.11**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**12.2**		1.0	0.67	mg/L			07/18/18 14:45	1

Client Sample ID: MW-23D-1R-W-180712

Lab Sample ID: 480-139008-6

Date Collected: 07/12/18 03:15

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	3.3	ug/L			07/21/18 00:38	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 00:38	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			07/21/18 00:38	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			07/21/18 00:38	4
1,1-Dichloroethane	4.0	U	4.0	1.5	ug/L			07/21/18 00:38	4
1,1-Dichloroethene	4.0	U	4.0	1.2	ug/L			07/21/18 00:38	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			07/21/18 00:38	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/21/18 00:38	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			07/21/18 00:38	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			07/21/18 00:38	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 00:38	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			07/21/18 00:38	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			07/21/18 00:38	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			07/21/18 00:38	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			07/21/18 00:38	4
2-Hexanone	20	U	20	5.0	ug/L			07/21/18 00:38	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			07/21/18 00:38	4
Acetone	40	U	40	12	ug/L			07/21/18 00:38	4
Benzene	**2.7**	**J**	4.0	1.6	ug/L			07/21/18 00:38	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			07/21/18 00:38	4
Bromoform	4.0	U	4.0	1.0	ug/L			07/21/18 00:38	4
Bromomethane	4.0	U	4.0	2.8	ug/L			07/21/18 00:38	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			07/21/18 00:38	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			07/21/18 00:38	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			07/21/18 00:38	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/21/18 00:38	4
Chloroform	4.0	U	4.0	1.4	ug/L			07/21/18 00:38	4
Chloromethane	4.0	U	4.0	1.4	ug/L			07/21/18 00:38	4
cis-1,2-Dichloroethene	4.0	U	4.0	3.2	ug/L			07/21/18 00:38	4

Client Sample ID: MW-23D-1R-W-180712
Date Collected: 07/12/18 03:15
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-6
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	4.0	U	4.0	1.4	ug/L			07/21/18 00:38	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			07/21/18 00:38	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			07/21/18 00:38	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			07/21/18 00:38	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			07/21/18 00:38	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			07/21/18 00:38	4
Methyl acetate	10	U	10	5.2	ug/L			07/21/18 00:38	4
Methyl tert-butyl ether	**91**		4.0	0.64	ug/L			07/21/18 00:38	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			07/21/18 00:38	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			07/21/18 00:38	4
Styrene	4.0	U	4.0	2.9	ug/L			07/21/18 00:38	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			07/21/18 00:38	4
Toluene	4.0	U	4.0	2.0	ug/L			07/21/18 00:38	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			07/21/18 00:38	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			07/21/18 00:38	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			07/21/18 00:38	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			07/21/18 00:38	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			07/21/18 00:38	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			07/21/18 00:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*07/21/18 00:38*	*4*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/21/18 00:38*	*4*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/21/18 00:38*	*4*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/21/18 00:38*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**64000**		5000	1900	ug/L			07/18/18 17:24	1
Ethane	330	U	330	66	ug/L			07/20/18 11:31	44
Ethene	310	U	310	66	ug/L			07/20/18 11:31	44
Methane	**4800**		180	44	ug/L			07/20/18 11:31	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.3**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:21	1
Manganese	**0.81**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:21	1
Sodium	**1360**		2.0	0.65	mg/L		07/18/18 08:55	07/19/18 13:46	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2250**		50.0	28.2	mg/L			07/28/18 01:22	100
Sulfate	**149**		40.0	7.0	mg/L			07/26/18 20:41	20
Alkalinity, Total	**495**	**B**	60.0	24.0	mg/L			07/19/18 13:15	6
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:23	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:23	1
Total Organic Carbon	**18.1**	**B**	1.0	0.43	mg/L			07/27/18 02:13	1
Ferric Iron	**4.0**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.26**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**28.8**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-23D-2R-W-180712
Date Collected: 07/12/18 02:55
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-7
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	8.0	U	8.0	6.6	ug/L			07/21/18 01:02	8
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.7	ug/L			07/21/18 01:02	8
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	8.0	2.5	ug/L			07/21/18 01:02	8
1,1,2-Trichloroethane	8.0	U	8.0	1.8	ug/L			07/21/18 01:02	8
1,1-Dichloroethane	8.0	U	8.0	3.0	ug/L			07/21/18 01:02	8
1,1-Dichloroethene	8.0	U	8.0	2.3	ug/L			07/21/18 01:02	8
1,2,4-Trichlorobenzene	8.0	U	8.0	3.3	ug/L			07/21/18 01:02	8
1,2-Dibromo-3-Chloropropane	8.0	U	8.0	3.1	ug/L			07/21/18 01:02	8
1,2-Dibromoethane	8.0	U	8.0	5.8	ug/L			07/21/18 01:02	8
1,2-Dichlorobenzene	8.0	U	8.0	6.3	ug/L			07/21/18 01:02	8
1,2-Dichloroethane	8.0	U	8.0	1.7	ug/L			07/21/18 01:02	8
1,2-Dichloropropane	8.0	U	8.0	5.8	ug/L			07/21/18 01:02	8
1,3-Dichlorobenzene	8.0	U	8.0	6.2	ug/L			07/21/18 01:02	8
1,4-Dichlorobenzene	8.0	U	8.0	6.7	ug/L			07/21/18 01:02	8
2-Butanone (MEK)	80	U	80	11	ug/L			07/21/18 01:02	8
2-Hexanone	40	U	40	9.9	ug/L			07/21/18 01:02	8
4-Methyl-2-pentanone (MIBK)	40	U	40	17	ug/L			07/21/18 01:02	8
Acetone	80	U	80	24	ug/L			07/21/18 01:02	8
Benzene	8.0	U	8.0	3.3	ug/L			07/21/18 01:02	8
Bromodichloromethane	8.0	U	8.0	3.1	ug/L			07/21/18 01:02	8
Bromoform	8.0	U	8.0	2.1	ug/L			07/21/18 01:02	8
Bromomethane	8.0	U	8.0	5.5	ug/L			07/21/18 01:02	8
Carbon disulfide	8.0	U	8.0	1.5	ug/L			07/21/18 01:02	8
Carbon tetrachloride	8.0	U	8.0	2.2	ug/L			07/21/18 01:02	8
Chlorobenzene	8.0	U	8.0	6.0	ug/L			07/21/18 01:02	8
Chloroethane	8.0	U	8.0	2.6	ug/L			07/21/18 01:02	8
Chloroform	8.0	U	8.0	2.7	ug/L			07/21/18 01:02	8
Chloromethane	8.0	U	8.0	2.8	ug/L			07/21/18 01:02	8
cis-1,2-Dichloroethene	8.0	U	8.0	6.5	ug/L			07/21/18 01:02	8
cis-1,3-Dichloropropene	8.0	U	8.0	2.9	ug/L			07/21/18 01:02	8
Cyclohexane	8.0	U	8.0	1.4	ug/L			07/21/18 01:02	8
Dibromochloromethane	8.0	U	8.0	2.6	ug/L			07/21/18 01:02	8
Dichlorodifluoromethane	8.0	U	8.0	5.4	ug/L			07/21/18 01:02	8
Ethylbenzene	8.0	U	8.0	5.9	ug/L			07/21/18 01:02	8
Isopropylbenzene	8.0	U	8.0	6.3	ug/L			07/21/18 01:02	8
Methyl acetate	20	U	20	10	ug/L			07/21/18 01:02	8
Methyl tert-butyl ether	**180**		8.0	1.3	ug/L			07/21/18 01:02	8
Methylcyclohexane	8.0	U	8.0	1.3	ug/L			07/21/18 01:02	8
Methylene Chloride	8.0	U	8.0	3.5	ug/L			07/21/18 01:02	8
Styrene	8.0	U	8.0	5.8	ug/L			07/21/18 01:02	8
Tetrachloroethene	8.0	U	8.0	2.9	ug/L			07/21/18 01:02	8
Toluene	8.0	U	8.0	4.1	ug/L			07/21/18 01:02	8
trans-1,2-Dichloroethene	8.0	U	8.0	7.2	ug/L			07/21/18 01:02	8
trans-1,3-Dichloropropene	8.0	U	8.0	3.0	ug/L			07/21/18 01:02	8
Trichloroethene	8.0	U	8.0	3.7	ug/L			07/21/18 01:02	8
Trichlorofluoromethane	8.0	U	8.0	7.0	ug/L			07/21/18 01:02	8
Vinyl chloride	8.0	U	8.0	7.2	ug/L			07/21/18 01:02	8
Xylenes, Total	16	U	16	5.3	ug/L			07/21/18 01:02	8

Client Sample ID: MW-23D-2R-W-180712

Lab Sample ID: 480-139008-7

Date Collected: 07/12/18 02:55

Matrix: Water

Date Received: 07/17/18 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*07/21/18 01:02*	*8*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*07/21/18 01:02*	*8*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*07/21/18 01:02*	*8*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/18 01:02*	*8*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**120000**		5000	1900	ug/L			07/18/18 17:32	1
Ethane	170	U	170	33	ug/L			07/20/18 11:49	22
Ethene	150	U	150	33	ug/L			07/20/18 11:49	22
Methane	**730**		88	22	ug/L			07/20/18 11:49	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.42**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:25	1
Manganese	**0.11**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:25	1
Sodium	**1820**		5.0	1.6	mg/L		07/18/18 08:55	07/19/18 14:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3620**		25.0	14.1	mg/L			07/26/18 20:49	50
Sulfate	**358**		100	17.5	mg/L			07/26/18 20:49	50
Alkalinity, Total	**641**	**B**	70.0	28.0	mg/L			07/18/18 15:23	7
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:24	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:24	1
Total Organic Carbon	**10.3**	**B**	1.0	0.43	mg/L			07/27/18 02:41	1
Ferric Iron	**0.42**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**40.0**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-24-D1-W-180712

Lab Sample ID: 480-139008-8

Date Collected: 07/12/18 23:55

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.0	U	8.0	6.6	ug/L			07/21/18 01:25	8
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.7	ug/L			07/21/18 01:25	8
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	8.0	2.5	ug/L			07/21/18 01:25	8
1,1,2-Trichloroethane	8.0	U	8.0	1.8	ug/L			07/21/18 01:25	8
1,1-Dichloroethane	8.0	U	8.0	3.0	ug/L			07/21/18 01:25	8
1,1-Dichloroethene	8.0	U	8.0	2.3	ug/L			07/21/18 01:25	8
1,2,4-Trichlorobenzene	8.0	U	8.0	3.3	ug/L			07/21/18 01:25	8
1,2-Dibromo-3-Chloropropane	8.0	U	8.0	3.1	ug/L			07/21/18 01:25	8
1,2-Dibromoethane	8.0	U	8.0	5.8	ug/L			07/21/18 01:25	8
1,2-Dichlorobenzene	8.0	U	8.0	6.3	ug/L			07/21/18 01:25	8
1,2-Dichloroethane	8.0	U	8.0	1.7	ug/L			07/21/18 01:25	8
1,2-Dichloropropane	8.0	U	8.0	5.8	ug/L			07/21/18 01:25	8
1,3-Dichlorobenzene	8.0	U	8.0	6.2	ug/L			07/21/18 01:25	8
1,4-Dichlorobenzene	8.0	U	8.0	6.7	ug/L			07/21/18 01:25	8
2-Butanone (MEK)	80	U	80	11	ug/L			07/21/18 01:25	8

Client Sample ID: MW-24-D1-W-180712
Date Collected: 07/12/18 23:55
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	40	U	40	9.9	ug/L			07/21/18 01:25	8
4-Methyl-2-pentanone (MIBK)	40	U	40	17	ug/L			07/21/18 01:25	8
Acetone	80	U	80	24	ug/L			07/21/18 01:25	8
Benzene	**11**		8.0	3.3	ug/L			07/21/18 01:25	8
Bromodichloromethane	8.0	U	8.0	3.1	ug/L			07/21/18 01:25	8
Bromoform	8.0	U	8.0	2.1	ug/L			07/21/18 01:25	8
Bromomethane	8.0	U	8.0	5.5	ug/L			07/21/18 01:25	8
Carbon disulfide	**2.1**	**J**	8.0	1.5	ug/L			07/21/18 01:25	8
Carbon tetrachloride	8.0	U	8.0	2.2	ug/L			07/21/18 01:25	8
Chlorobenzene	8.0	U	8.0	6.0	ug/L			07/21/18 01:25	8
Chloroethane	8.0	U	8.0	2.6	ug/L			07/21/18 01:25	8
Chloroform	8.0	U	8.0	2.7	ug/L			07/21/18 01:25	8
Chloromethane	8.0	U	8.0	2.8	ug/L			07/21/18 01:25	8
cis-1,2-Dichloroethene	8.0	U	8.0	6.5	ug/L			07/21/18 01:25	8
cis-1,3-Dichloropropene	8.0	U	8.0	2.9	ug/L			07/21/18 01:25	8
Cyclohexane	8.0	U	8.0	1.4	ug/L			07/21/18 01:25	8
Dibromochloromethane	8.0	U	8.0	2.6	ug/L			07/21/18 01:25	8
Dichlorodifluoromethane	8.0	U	8.0	5.4	ug/L			07/21/18 01:25	8
Ethylbenzene	**7.1**	**J**	8.0	5.9	ug/L			07/21/18 01:25	8
Isopropylbenzene	8.0	U	8.0	6.3	ug/L			07/21/18 01:25	8
Methyl acetate	20	U	20	10	ug/L			07/21/18 01:25	8
Methyl tert-butyl ether	**290**		8.0	1.3	ug/L			07/21/18 01:25	8
Methylcyclohexane	8.0	U	8.0	1.3	ug/L			07/21/18 01:25	8
Methylene Chloride	8.0	U	8.0	3.5	ug/L			07/21/18 01:25	8
Styrene	8.0	U	8.0	5.8	ug/L			07/21/18 01:25	8
Tetrachloroethene	8.0	U	8.0	2.9	ug/L			07/21/18 01:25	8
Toluene	**23**		8.0	4.1	ug/L			07/21/18 01:25	8
trans-1,2-Dichloroethene	**22**		8.0	7.2	ug/L			07/21/18 01:25	8
trans-1,3-Dichloropropene	8.0	U	8.0	3.0	ug/L			07/21/18 01:25	8
Trichloroethene	8.0	U	8.0	3.7	ug/L			07/21/18 01:25	8
Trichlorofluoromethane	8.0	U	8.0	7.0	ug/L			07/21/18 01:25	8
Vinyl chloride	**160**		8.0	7.2	ug/L			07/21/18 01:25	8
Xylenes, Total	**29**		16	5.3	ug/L			07/21/18 01:25	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/21/18 01:25*	*8*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/21/18 01:25*	*8*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/21/18 01:25*	*8*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/21/18 01:25*	*8*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**67000**		5000	1900	ug/L			07/18/18 17:41	1
Ethane	**130**	**J**	330	66	ug/L			07/20/18 12:06	44
Ethene	**1100**		310	66	ug/L			07/20/18 12:06	44
Methane	**5900**		180	44	ug/L			07/20/18 12:06	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.1**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:40	1

Client Sample ID: MW-24-D1-W-180712

Lab Sample ID: 480-139008-8

Date Collected: 07/12/18 23:55

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.12**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:40	1
Sodium	**2140**		5.0	1.6	mg/L		07/18/18 08:55	07/19/18 14:05	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4220**		25.0	14.1	mg/L			07/26/18 20:57	50
Sulfate	**200**		100	17.5	mg/L			07/26/18 20:57	50
Alkalinity, Total	**875**	**B**	100	40.0	mg/L			07/18/18 15:16	10
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:25	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:25	1
Total Organic Carbon	**19.6**	**B**	1.0	0.43	mg/L			07/27/18 05:58	1
Ferric Iron	**10.1**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**66.4**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-24-D2-W-180712

Lab Sample ID: 480-139008-9

Date Collected: 07/12/18 23:30

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			07/21/18 01:48	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 01:48	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/21/18 01:48	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/21/18 01:48	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/21/18 01:48	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/21/18 01:48	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/21/18 01:48	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/21/18 01:48	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/21/18 01:48	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 01:48	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 01:48	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/21/18 01:48	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 01:48	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/21/18 01:48	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/21/18 01:48	2
2-Hexanone	10	U	10	2.5	ug/L			07/21/18 01:48	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/21/18 01:48	2
Acetone	20	U	20	6.0	ug/L			07/21/18 01:48	2
Benzene	2.0	U	2.0	0.82	ug/L			07/21/18 01:48	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/21/18 01:48	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/21/18 01:48	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/21/18 01:48	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			07/21/18 01:48	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/21/18 01:48	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/21/18 01:48	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/21/18 01:48	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/21/18 01:48	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/21/18 01:48	2
cis-1,2-Dichloroethene	2.0	U	2.0	1.6	ug/L			07/21/18 01:48	2

Client Sample ID: MW-24-D2-W-180712

Date Collected: 07/12/18 23:30
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-9

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	2.0	U	2.0	0.72	ug/L			07/21/18 01:48	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			07/21/18 01:48	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/21/18 01:48	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/21/18 01:48	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			07/21/18 01:48	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			07/21/18 01:48	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/21/18 01:48	2
Methyl tert-butyl ether	**2.5**		2.0	0.32	ug/L			07/21/18 01:48	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			07/21/18 01:48	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			07/21/18 01:48	2
Styrene	2.0	U	2.0	1.5	ug/L			07/21/18 01:48	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/21/18 01:48	2
Toluene	2.0	U	2.0	1.0	ug/L			07/21/18 01:48	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			07/21/18 01:48	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/21/18 01:48	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			07/21/18 01:48	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/21/18 01:48	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			07/21/18 01:48	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/21/18 01:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*07/21/18 01:48*	*2*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*07/21/18 01:48*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/21/18 01:48*	*2*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/21/18 01:48*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**15000**		5000	1900	ug/L			07/18/18 17:50	1
Ethane	7.5	U	7.5	1.5	ug/L			07/20/18 12:24	1
Ethene	7.0	U	7.0	1.5	ug/L			07/20/18 12:24	1
Methane	**44**		4.0	1.0	ug/L			07/20/18 12:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.1**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:44	1
Manganese	**0.033**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:44	1
Sodium	**94.9**		1.0	0.32	mg/L		07/18/18 08:55	07/19/18 00:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		1.0	0.56	mg/L			07/26/18 21:06	2
Sulfate	**28.0**		4.0	0.70	mg/L			07/26/18 21:06	2
Alkalinity, Total	**114**	**B**	20.0	8.0	mg/L			07/18/18 14:58	2
Nitrate as N	**0.051**	**H**	0.050	0.020	mg/L			07/18/18 21:56	1
Nitrite as N	**0.020**	**J H**	0.050	0.020	mg/L			07/18/18 21:56	1
Total Organic Carbon	**7.4**	**B**	1.0	0.43	mg/L			07/26/18 03:14	1
Ferric Iron	**1.1**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**0.80**	**J**	1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-24-VD-W-180712

Date Collected: 07/12/18 22:40
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-10

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	4.0	U	4.0	3.3	ug/L			07/21/18 02:11	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 02:11	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			07/21/18 02:11	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			07/21/18 02:11	4
1,1-Dichloroethane	4.0	U	4.0	1.5	ug/L			07/21/18 02:11	4
1,1-Dichloroethene	4.0	U	4.0	1.2	ug/L			07/21/18 02:11	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			07/21/18 02:11	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/21/18 02:11	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			07/21/18 02:11	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			07/21/18 02:11	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 02:11	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			07/21/18 02:11	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			07/21/18 02:11	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			07/21/18 02:11	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			07/21/18 02:11	4
2-Hexanone	20	U	20	5.0	ug/L			07/21/18 02:11	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			07/21/18 02:11	4
Acetone	40	U	40	12	ug/L			07/21/18 02:11	4
Benzene	4.0	U	4.0	1.6	ug/L			07/21/18 02:11	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			07/21/18 02:11	4
Bromoform	4.0	U	4.0	1.0	ug/L			07/21/18 02:11	4
Bromomethane	4.0	U	4.0	2.8	ug/L			07/21/18 02:11	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			07/21/18 02:11	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			07/21/18 02:11	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			07/21/18 02:11	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/21/18 02:11	4
Chloroform	4.0	U	4.0	1.4	ug/L			07/21/18 02:11	4
Chloromethane	4.0	U	4.0	1.4	ug/L			07/21/18 02:11	4
cis-1,2-Dichloroethene	4.0	U	4.0	3.2	ug/L			07/21/18 02:11	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			07/21/18 02:11	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			07/21/18 02:11	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			07/21/18 02:11	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			07/21/18 02:11	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			07/21/18 02:11	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			07/21/18 02:11	4
Methyl acetate	10	U	10	5.2	ug/L			07/21/18 02:11	4
Methyl tert-butyl ether	**4.2**		4.0	0.64	ug/L			07/21/18 02:11	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			07/21/18 02:11	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			07/21/18 02:11	4
Styrene	4.0	U	4.0	2.9	ug/L			07/21/18 02:11	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			07/21/18 02:11	4
Toluene	4.0	U	4.0	2.0	ug/L			07/21/18 02:11	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			07/21/18 02:11	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			07/21/18 02:11	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			07/21/18 02:11	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			07/21/18 02:11	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			07/21/18 02:11	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			07/21/18 02:11	4

Client Sample ID: MW-24-VD-W-180712

Lab Sample ID: 480-139008-10

Date Collected: 07/12/18 22:40

Matrix: Water

Date Received: 07/17/18 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*07/21/18 02:11*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/21/18 02:11*	*4*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/21/18 02:11*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/21/18 02:11*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**89000**		5000	1900	ug/L			07/18/18 17:58	1
Ethane	**2.1**	**J**	7.5	1.5	ug/L			07/20/18 12:41	1
Ethene	**2.3**	**J**	7.0	1.5	ug/L			07/20/18 12:41	1
Methane	**160**		4.0	1.0	ug/L			07/20/18 12:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**37.9**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:48	1
Manganese	**0.91**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:48	1
Sodium	**8960**		20.0	6.5	mg/L		07/18/18 08:55	07/19/18 14:09	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16000**		250	141	mg/L			07/28/18 01:36	500
Sulfate	**1640**		200	34.9	mg/L			07/26/18 21:46	100
Alkalinity, Total	**454**	**B**	50.0	20.0	mg/L			07/18/18 15:16	5
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:28	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:28	1
Total Organic Carbon	**3.9**	**B**	1.0	0.43	mg/L			07/26/18 03:42	1
Ferric Iron	**37.8**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.10**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	1.0	U	1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-26-D1-W-180713

Lab Sample ID: 480-139008-11

Date Collected: 07/13/18 02:20

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			07/21/18 02:35	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 02:35	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/21/18 02:35	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/21/18 02:35	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/21/18 02:35	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/21/18 02:35	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/21/18 02:35	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/21/18 02:35	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/21/18 02:35	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:35	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 02:35	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/21/18 02:35	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:35	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/21/18 02:35	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/21/18 02:35	2

Client Sample ID: MW-26-D1-W-180713

Date Collected: 07/13/18 02:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-11

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	2.5	ug/L			07/21/18 02:35	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/21/18 02:35	2
Acetone	20	U	20	6.0	ug/L			07/21/18 02:35	2
Benzene	**17**		2.0	0.82	ug/L			07/21/18 02:35	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/21/18 02:35	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/21/18 02:35	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/21/18 02:35	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			07/21/18 02:35	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/21/18 02:35	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/21/18 02:35	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/21/18 02:35	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/21/18 02:35	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/21/18 02:35	2
cis-1,2-Dichloroethene	2.0	U	2.0	1.6	ug/L			07/21/18 02:35	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			07/21/18 02:35	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			07/21/18 02:35	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/21/18 02:35	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/21/18 02:35	2
Ethylbenzene	**3.5**		2.0	1.5	ug/L			07/21/18 02:35	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:35	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/21/18 02:35	2
Methyl tert-butyl ether	**220**	**E**	2.0	0.32	ug/L			07/21/18 02:35	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			07/21/18 02:35	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			07/21/18 02:35	2
Styrene	2.0	U	2.0	1.5	ug/L			07/21/18 02:35	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/21/18 02:35	2
Toluene	2.0	U	2.0	1.0	ug/L			07/21/18 02:35	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			07/21/18 02:35	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/21/18 02:35	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			07/21/18 02:35	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/21/18 02:35	2
Vinyl chloride	**13**		2.0	1.8	ug/L			07/21/18 02:35	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/21/18 02:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*07/21/18 02:35*	*2*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*07/21/18 02:35*	*2*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*07/21/18 02:35*	*2*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/18 02:35*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	4.1	ug/L			07/22/18 12:10	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			07/22/18 12:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.6	ug/L			07/22/18 12:10	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			07/22/18 12:10	5
1,1-Dichloroethane	5.0	U	5.0	1.9	ug/L			07/22/18 12:10	5
1,1-Dichloroethene	5.0	U	5.0	1.5	ug/L			07/22/18 12:10	5
1,2,4-Trichlorobenzene	5.0	U	5.0	2.1	ug/L			07/22/18 12:10	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0	ug/L			07/22/18 12:10	5

Client Sample ID: MW-26-D1-W-180713
Date Collected: 07/13/18 02:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	5.0	U	5.0	3.7	ug/L			07/22/18 12:10	5
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			07/22/18 12:10	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			07/22/18 12:10	5
1,2-Dichloropropane	5.0	U	5.0	3.6	ug/L			07/22/18 12:10	5
1,3-Dichlorobenzene	5.0	U	5.0	3.9	ug/L			07/22/18 12:10	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			07/22/18 12:10	5
2-Butanone (MEK)	50	U	50	6.6	ug/L			07/22/18 12:10	5
2-Hexanone	25	U	25	6.2	ug/L			07/22/18 12:10	5
4-Methyl-2-pentanone (MIBK)	25	U	25	11	ug/L			07/22/18 12:10	5
Acetone	50	U	50	15	ug/L			07/22/18 12:10	5
Benzene	**15**		5.0	2.1	ug/L			07/22/18 12:10	5
Bromodichloromethane	5.0	U	5.0	2.0	ug/L			07/22/18 12:10	5
Bromoform	5.0	U	5.0	1.3	ug/L			07/22/18 12:10	5
Bromomethane	5.0	U	5.0	3.5	ug/L			07/22/18 12:10	5
Carbon disulfide	5.0	U	5.0	0.95	ug/L			07/22/18 12:10	5
Carbon tetrachloride	5.0	U	5.0	1.4	ug/L			07/22/18 12:10	5
Chlorobenzene	5.0	U	5.0	3.8	ug/L			07/22/18 12:10	5
Chloroethane	5.0	U	5.0	1.6	ug/L			07/22/18 12:10	5
Chloroform	5.0	U	5.0	1.7	ug/L			07/22/18 12:10	5
Chloromethane	5.0	U	5.0	1.8	ug/L			07/22/18 12:10	5
cis-1,2-Dichloroethene	5.0	U	5.0	4.1	ug/L			07/22/18 12:10	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.8	ug/L			07/22/18 12:10	5
Cyclohexane	5.0	U	5.0	0.90	ug/L			07/22/18 12:10	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			07/22/18 12:10	5
Dichlorodifluoromethane	5.0	U	5.0	3.4	ug/L			07/22/18 12:10	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			07/22/18 12:10	5
Isopropylbenzene	5.0	U	5.0	4.0	ug/L			07/22/18 12:10	5
Methyl acetate	13	U	13	6.5	ug/L			07/22/18 12:10	5
Methyl tert-butyl ether	**210**		5.0	0.80	ug/L			07/22/18 12:10	5
Methylcyclohexane	5.0	U	5.0	0.80	ug/L			07/22/18 12:10	5
Methylene Chloride	5.0	U	5.0	2.2	ug/L			07/22/18 12:10	5
Styrene	5.0	U	5.0	3.7	ug/L			07/22/18 12:10	5
Tetrachloroethene	5.0	U	5.0	1.8	ug/L			07/22/18 12:10	5
Toluene	5.0	U	5.0	2.6	ug/L			07/22/18 12:10	5
trans-1,2-Dichloroethene	5.0	U	5.0	4.5	ug/L			07/22/18 12:10	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.9	ug/L			07/22/18 12:10	5
Trichloroethene	5.0	U	5.0	2.3	ug/L			07/22/18 12:10	5
Trichlorofluoromethane	5.0	U	5.0	4.4	ug/L			07/22/18 12:10	5
Vinyl chloride	**13**		5.0	4.5	ug/L			07/22/18 12:10	5
Xylenes, Total	10	U	10	3.3	ug/L			07/22/18 12:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/22/18 12:10*	*5*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*07/22/18 12:10*	*5*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/22/18 12:10*	*5*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/22/18 12:10*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**110000**		5000	1900	ug/L			07/19/18 13:26	1

Client Sample ID: MW-26-D1-W-180713

Lab Sample ID: 480-139008-11

Date Collected: 07/13/18 02:20

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	330	U	330	66	ug/L			07/20/18 13:16	44
Ethene	310	U	310	66	ug/L			07/20/18 13:16	44
Methane	**2900**		180	44	ug/L			07/20/18 13:16	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.32**		0.050	0.019	mg/L		07/21/18 08:53	07/24/18 02:32	1
Manganese	**0.035**	**B**	0.0030	0.00040	mg/L		07/21/18 08:53	07/24/18 02:32	1
Sodium	**1640**		2.0	0.65	mg/L		07/21/18 08:53	07/24/18 15:15	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2810**		50.0	28.2	mg/L			07/28/18 01:51	100
Sulfate	**237**		40.0	7.0	mg/L			07/26/18 21:54	20
Alkalinity, Total	**558**		60.0	24.0	mg/L			07/19/18 13:17	6
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:34	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:34	1
Total Organic Carbon	**14.1**	**B**	1.0	0.43	mg/L			07/27/18 05:01	1
Ferric Iron	**0.32**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**44.8**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-27-D1-W-180713

Lab Sample ID: 480-139008-12

Date Collected: 07/13/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			07/21/18 02:58	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 02:58	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/21/18 02:58	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/21/18 02:58	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/21/18 02:58	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/21/18 02:58	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/21/18 02:58	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/21/18 02:58	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/21/18 02:58	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:58	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/21/18 02:58	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/21/18 02:58	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:58	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/21/18 02:58	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/21/18 02:58	2
2-Hexanone	10	U	10	2.5	ug/L			07/21/18 02:58	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/21/18 02:58	2
Acetone	20	U	20	6.0	ug/L			07/21/18 02:58	2
Benzene	**7.8**		2.0	0.82	ug/L			07/21/18 02:58	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/21/18 02:58	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/21/18 02:58	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/21/18 02:58	2

Client Sample ID: MW-27-D1-W-180713

Lab Sample ID: 480-139008-12

Date Collected: 07/13/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**0.64**	**J**	2.0	0.38	ug/L			07/21/18 02:58	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/21/18 02:58	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/21/18 02:58	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/21/18 02:58	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/21/18 02:58	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/21/18 02:58	2
cis-1,2-Dichloroethene	**2.0**		2.0	1.6	ug/L			07/21/18 02:58	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			07/21/18 02:58	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			07/21/18 02:58	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/21/18 02:58	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/21/18 02:58	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			07/21/18 02:58	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			07/21/18 02:58	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/21/18 02:58	2
Methyl tert-butyl ether	**62**		2.0	0.32	ug/L			07/21/18 02:58	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			07/21/18 02:58	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			07/21/18 02:58	2
Styrene	2.0	U	2.0	1.5	ug/L			07/21/18 02:58	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/21/18 02:58	2
Toluene	**1.6**	**J**	2.0	1.0	ug/L			07/21/18 02:58	2
trans-1,2-Dichloroethene	**4.1**		2.0	1.8	ug/L			07/21/18 02:58	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/21/18 02:58	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			07/21/18 02:58	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/21/18 02:58	2
Vinyl chloride	**88**		2.0	1.8	ug/L			07/21/18 02:58	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/21/18 02:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/21/18 02:58*	*2*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*07/21/18 02:58*	*2*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/21/18 02:58*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/21/18 02:58*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**140000**		5000	1900	ug/L			07/18/18 18:07	1
Ethane	660	U	660	130	ug/L			07/20/18 13:34	88
Ethene	620	U	620	130	ug/L			07/20/18 13:34	88
Methane	**3700**		350	88	ug/L			07/20/18 13:34	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8.2**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:52	1
Manganese	**0.17**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:52	1
Sodium	**1690**		5.0	1.6	mg/L		07/18/18 08:55	07/19/18 14:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		50.0	28.2	mg/L			07/28/18 02:05	100
Sulfate	**157**		40.0	7.0	mg/L			07/26/18 22:03	20

Client Sample ID: MW-27-D1-W-180713

Lab Sample ID: 480-139008-12

Date Collected: 07/13/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**526**	**B**	60.0	24.0	mg/L			07/19/18 13:15	6
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:29	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:29	1
Total Organic Carbon	**12.7**	**B**	1.0	0.43	mg/L			07/27/18 06:27	1
Ferric Iron	**8.0**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	**0.17**	**HF**	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**63.2**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-27-D2-W-180713

Lab Sample ID: 480-139008-13

Date Collected: 07/13/18 01:10

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	3.3	ug/L			07/21/18 03:21	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 03:21	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			07/21/18 03:21	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			07/21/18 03:21	4
1,1-Dichloroethane	4.0	U	4.0	1.5	ug/L			07/21/18 03:21	4
1,1-Dichloroethene	4.0	U	4.0	1.2	ug/L			07/21/18 03:21	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			07/21/18 03:21	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/21/18 03:21	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			07/21/18 03:21	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			07/21/18 03:21	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 03:21	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			07/21/18 03:21	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			07/21/18 03:21	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			07/21/18 03:21	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			07/21/18 03:21	4
2-Hexanone	20	U	20	5.0	ug/L			07/21/18 03:21	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			07/21/18 03:21	4
Acetone	40	U	40	12	ug/L			07/21/18 03:21	4
Benzene	4.0	U	4.0	1.6	ug/L			07/21/18 03:21	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			07/21/18 03:21	4
Bromoform	4.0	U	4.0	1.0	ug/L			07/21/18 03:21	4
Bromomethane	4.0	U	4.0	2.8	ug/L			07/21/18 03:21	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			07/21/18 03:21	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			07/21/18 03:21	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			07/21/18 03:21	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/21/18 03:21	4
Chloroform	4.0	U	4.0	1.4	ug/L			07/21/18 03:21	4
Chloromethane	4.0	U	4.0	1.4	ug/L			07/21/18 03:21	4
cis-1,2-Dichloroethene	4.0	U	4.0	3.2	ug/L			07/21/18 03:21	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			07/21/18 03:21	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			07/21/18 03:21	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			07/21/18 03:21	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			07/21/18 03:21	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			07/21/18 03:21	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			07/21/18 03:21	4
Methyl acetate	10	U	10	5.2	ug/L			07/21/18 03:21	4

Client Sample ID: MW-27-D2-W-180713

Lab Sample ID: 480-139008-13
Matrix: Water
Date Collected: 07/13/18 01:10
Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**3.4**	**J**	4.0	0.64	ug/L			07/21/18 03:21	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			07/21/18 03:21	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			07/21/18 03:21	4
Styrene	4.0	U	4.0	2.9	ug/L			07/21/18 03:21	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			07/21/18 03:21	4
Toluene	4.0	U	4.0	2.0	ug/L			07/21/18 03:21	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			07/21/18 03:21	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			07/21/18 03:21	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			07/21/18 03:21	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			07/21/18 03:21	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			07/21/18 03:21	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			07/21/18 03:21	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*07/21/18 03:21*	*4*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*07/21/18 03:21*	*4*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*07/21/18 03:21*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/21/18 03:21*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**140000**		5000	1900	ug/L			07/18/18 18:16	1
Ethane	330	U	330	66	ug/L			07/20/18 13:51	44
Ethene	310	U	310	66	ug/L			07/20/18 13:51	44
Methane	**1500**		180	44	ug/L			07/20/18 13:51	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.6**		0.050	0.019	mg/L		07/18/18 08:55	07/19/18 00:56	1
Manganese	**0.34**	**B**	0.0030	0.00040	mg/L		07/18/18 08:55	07/19/18 00:56	1
Sodium	**2530**		5.0	1.6	mg/L		07/18/18 08:55	07/19/18 14:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7510**		100	56.4	mg/L			07/28/18 02:20	200
Sulfate	**844**		100	17.5	mg/L			07/26/18 22:11	50
Alkalinity, Total	**363**	**B**	40.0	16.0	mg/L			07/19/18 12:25	4
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:30	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:30	1
Total Organic Carbon	**8.0**	**B**	1.0	0.43	mg/L			07/27/18 06:55	1
Ferric Iron	**4.6**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**10.8**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-28-D2R-W-180713

Lab Sample ID: 480-139008-14
Matrix: Water
Date Collected: 07/13/18 03:33
Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	3.3	ug/L			07/21/18 03:45	4

Client Sample ID: MW-28-D2R-W-180713
Date Collected: 07/13/18 03:33
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 03:45	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			07/21/18 03:45	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			07/21/18 03:45	4
1,1-Dichloroethane	4.0	U	4.0	1.5	ug/L			07/21/18 03:45	4
1,1-Dichloroethene	4.0	U	4.0	1.2	ug/L			07/21/18 03:45	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			07/21/18 03:45	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/21/18 03:45	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			07/21/18 03:45	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			07/21/18 03:45	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 03:45	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			07/21/18 03:45	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			07/21/18 03:45	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			07/21/18 03:45	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			07/21/18 03:45	4
2-Hexanone	20	U	20	5.0	ug/L			07/21/18 03:45	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			07/21/18 03:45	4
Acetone	40	U	40	12	ug/L			07/21/18 03:45	4
Benzene	4.0	U	4.0	1.6	ug/L			07/21/18 03:45	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			07/21/18 03:45	4
Bromoform	4.0	U	4.0	1.0	ug/L			07/21/18 03:45	4
Bromomethane	4.0	U	4.0	2.8	ug/L			07/21/18 03:45	4
Carbon disulfide	**1.0**	**J**	4.0	0.76	ug/L			07/21/18 03:45	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			07/21/18 03:45	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			07/21/18 03:45	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/21/18 03:45	4
Chloroform	4.0	U	4.0	1.4	ug/L			07/21/18 03:45	4
Chloromethane	4.0	U	4.0	1.4	ug/L			07/21/18 03:45	4
cis-1,2-Dichloroethene	4.0	U	4.0	3.2	ug/L			07/21/18 03:45	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			07/21/18 03:45	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			07/21/18 03:45	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			07/21/18 03:45	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			07/21/18 03:45	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			07/21/18 03:45	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			07/21/18 03:45	4
Methyl acetate	10	U	10	5.2	ug/L			07/21/18 03:45	4
Methyl tert-butyl ether	4.0	U	4.0	0.64	ug/L			07/21/18 03:45	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			07/21/18 03:45	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			07/21/18 03:45	4
Styrene	4.0	U	4.0	2.9	ug/L			07/21/18 03:45	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			07/21/18 03:45	4
Toluene	4.0	U	4.0	2.0	ug/L			07/21/18 03:45	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			07/21/18 03:45	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			07/21/18 03:45	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			07/21/18 03:45	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			07/21/18 03:45	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			07/21/18 03:45	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			07/21/18 03:45	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*07/21/18 03:45*	*4*

Client Sample ID: MW-28-D2R-W-180713

Lab Sample ID: 480-139008-14

Date Collected: 07/13/18 03:33

Matrix: Water

Date Received: 07/17/18 09:40

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/21/18 03:45*	*4*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/21/18 03:45*	*4*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/21/18 03:45*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**91000**		5000	1900	ug/L			07/19/18 13:35	1
Ethane	330	U	330	66	ug/L			07/20/18 14:09	44
Ethene	310	U	310	66	ug/L			07/20/18 14:09	44
Methane	**880**		180	44	ug/L			07/20/18 14:09	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.2**		0.050	0.019	mg/L		07/21/18 08:53	07/24/18 02:36	1
Manganese	**0.19**	**B**	0.0030	0.00040	mg/L		07/21/18 08:53	07/24/18 02:36	1
Sodium	**3000**		5.0	1.6	mg/L		07/21/18 08:53	07/24/18 15:19	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4010**		25.0	14.1	mg/L			07/26/18 22:19	50
Sulfate	**432**		100	17.5	mg/L			07/26/18 22:19	50
Alkalinity, Total	**468**	**B**	50.0	20.0	mg/L			07/19/18 13:15	5
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:37	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:37	1
Total Organic Carbon	**5.0**	**B**	1.0	0.43	mg/L			07/26/18 08:24	1
Ferric Iron	**5.2**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**11.2**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: MW-29-D1-W-180713

Lab Sample ID: 480-139008-15

Date Collected: 07/13/18 04:05

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	3.3	ug/L			07/21/18 04:08	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 04:08	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			07/21/18 04:08	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			07/21/18 04:08	4
1,1-Dichloroethane	4.0	U	4.0	1.5	ug/L			07/21/18 04:08	4
1,1-Dichloroethene	4.0	U	4.0	1.2	ug/L			07/21/18 04:08	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			07/21/18 04:08	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/21/18 04:08	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			07/21/18 04:08	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			07/21/18 04:08	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			07/21/18 04:08	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			07/21/18 04:08	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			07/21/18 04:08	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			07/21/18 04:08	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			07/21/18 04:08	4

Client Sample ID: MW-29-D1-W-180713
Date Collected: 07/13/18 04:05
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	**9.1**	**J**	20	5.0	ug/L			07/21/18 04:08	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			07/21/18 04:08	4
Acetone	40	U	40	12	ug/L			07/21/18 04:08	4
Benzene	**5.2**		4.0	1.6	ug/L			07/21/18 04:08	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			07/21/18 04:08	4
Bromoform	4.0	U	4.0	1.0	ug/L			07/21/18 04:08	4
Bromomethane	4.0	U	4.0	2.8	ug/L			07/21/18 04:08	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			07/21/18 04:08	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			07/21/18 04:08	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			07/21/18 04:08	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/21/18 04:08	4
Chloroform	4.0	U	4.0	1.4	ug/L			07/21/18 04:08	4
Chloromethane	4.0	U	4.0	1.4	ug/L			07/21/18 04:08	4
cis-1,2-Dichloroethene	4.0	U	4.0	3.2	ug/L			07/21/18 04:08	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			07/21/18 04:08	4
Cyclohexane	**24**		4.0	0.72	ug/L			07/21/18 04:08	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			07/21/18 04:08	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			07/21/18 04:08	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			07/21/18 04:08	4
Isopropylbenzene	**19**		4.0	3.2	ug/L			07/21/18 04:08	4
Methyl acetate	10	U	10	5.2	ug/L			07/21/18 04:08	4
Methyl tert-butyl ether	**39**		4.0	0.64	ug/L			07/21/18 04:08	4
Methylcyclohexane	**11**		4.0	0.64	ug/L			07/21/18 04:08	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			07/21/18 04:08	4
Styrene	4.0	U	4.0	2.9	ug/L			07/21/18 04:08	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			07/21/18 04:08	4
Toluene	**3.0**	**J**	4.0	2.0	ug/L			07/21/18 04:08	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			07/21/18 04:08	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			07/21/18 04:08	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			07/21/18 04:08	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			07/21/18 04:08	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			07/21/18 04:08	4
Xylenes, Total	**5.5**	**J**	8.0	2.6	ug/L			07/21/18 04:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*07/21/18 04:08*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/21/18 04:08*	*4*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*07/21/18 04:08*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/21/18 04:08*	*4*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**180000**		5000	1900	ug/L			07/19/18 13:44	1
Ethane	660	U	660	130	ug/L			07/22/18 13:40	88
Ethene	620	U	620	130	ug/L			07/22/18 13:40	88
Methane	**15000**		350	88	ug/L			07/22/18 13:40	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.3**		0.050	0.019	mg/L		07/21/18 08:53	07/24/18 02:40	1

Client Sample ID: MW-29-D1-W-180713

Lab Sample ID: 480-139008-15

Date Collected: 07/13/18 04:05

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.34**	**B**	0.0030	0.00040	mg/L		07/21/18 08:53	07/24/18 02:40	1
Sodium	**988**		2.0	0.65	mg/L		07/21/18 08:53	07/24/18 15:23	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1680**		10.0	5.6	mg/L			07/26/18 22:27	20
Sulfate	40.0	U	40.0	7.0	mg/L			07/26/18 22:27	20
Alkalinity, Total	**563**	**B**	60.0	24.0	mg/L			07/19/18 13:15	6
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:39	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/20/18 15:39	1
Total Organic Carbon	**9.2**	**B**	1.0	0.43	mg/L			07/25/18 23:07	1
Ferric Iron	**1.3**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**1.2**		1.0	0.67	mg/L			07/19/18 09:32	1

Client Sample ID: AMW-15-D3-W-180713

Lab Sample ID: 480-139008-16

Date Collected: 07/13/18 21:45

Matrix: Water

Date Received: 07/17/18 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			07/22/18 12:33	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			07/22/18 12:33	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			07/22/18 12:33	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			07/22/18 12:33	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			07/22/18 12:33	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			07/22/18 12:33	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			07/22/18 12:33	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			07/22/18 12:33	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			07/22/18 12:33	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/22/18 12:33	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			07/22/18 12:33	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			07/22/18 12:33	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			07/22/18 12:33	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			07/22/18 12:33	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			07/22/18 12:33	2
2-Hexanone	10	U	10	2.5	ug/L			07/22/18 12:33	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			07/22/18 12:33	2
Acetone	**16**	**J**	20	6.0	ug/L			07/22/18 12:33	2
Benzene	2.0	U	2.0	0.82	ug/L			07/22/18 12:33	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			07/22/18 12:33	2
Bromoform	2.0	U	2.0	0.52	ug/L			07/22/18 12:33	2
Bromomethane	2.0	U	2.0	1.4	ug/L			07/22/18 12:33	2
Carbon disulfide	**0.70**	**J**	2.0	0.38	ug/L			07/22/18 12:33	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			07/22/18 12:33	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			07/22/18 12:33	2
Chloroethane	2.0	U	2.0	0.64	ug/L			07/22/18 12:33	2
Chloroform	2.0	U	2.0	0.68	ug/L			07/22/18 12:33	2
Chloromethane	2.0	U	2.0	0.70	ug/L			07/22/18 12:33	2
cis-1,2-Dichloroethene	**3.1**		2.0	1.6	ug/L			07/22/18 12:33	2

Client Sample ID: AMW-15-D3-W-180713

Date Collected: 07/13/18 21:45
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-16

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	2.0	U	2.0	0.72	ug/L			07/22/18 12:33	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			07/22/18 12:33	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			07/22/18 12:33	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			07/22/18 12:33	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			07/22/18 12:33	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			07/22/18 12:33	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			07/22/18 12:33	2
Methyl tert-butyl ether	**22**		2.0	0.32	ug/L			07/22/18 12:33	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			07/22/18 12:33	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			07/22/18 12:33	2
Styrene	2.0	U	2.0	1.5	ug/L			07/22/18 12:33	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			07/22/18 12:33	2
Toluene	2.0	U	2.0	1.0	ug/L			07/22/18 12:33	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			07/22/18 12:33	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			07/22/18 12:33	2
Trichloroethene	**20**		2.0	0.92	ug/L			07/22/18 12:33	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			07/22/18 12:33	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			07/22/18 12:33	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			07/22/18 12:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*07/22/18 12:33*	*2*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/22/18 12:33*	*2*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/22/18 12:33*	*2*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/22/18 12:33*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**7600**		5000	1900	ug/L			07/18/18 18:24	1
Ethane	330	U	330	66	ug/L			07/20/18 14:44	44
Ethene	310	U	310	66	ug/L			07/20/18 14:44	44
Methane	**1500**		180	44	ug/L			07/20/18 14:44	44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.1**		0.050	0.019	mg/L		07/20/18 08:21	07/20/18 17:34	1
Manganese	**1.1**	**B**	0.0030	0.00040	mg/L		07/20/18 08:21	07/20/18 17:34	1
Sodium	**3870**		5.0	1.6	mg/L		07/20/18 08:21	07/23/18 16:25	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4670**		25.0	14.1	mg/L			07/26/18 22:35	50
Sulfate	**482**		100	17.5	mg/L			07/26/18 22:35	50
Alkalinity, Total	**518**	**B**	60.0	24.0	mg/L			07/19/18 13:15	6
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:31	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:31	1
Total Organic Carbon	**10.2**	**B**	1.0	0.43	mg/L			07/25/18 23:37	1
Ferric Iron	**3.1**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**22.8**		1.0	0.67	mg/L			07/19/18 09:32	1

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: AMW-15-VD-W-180713
Date Collected: 07/13/18 21:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-17
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	0.82	ug/L			07/22/18 12:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			07/22/18 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/22/18 12:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/22/18 12:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			07/22/18 12:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/22/18 12:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			07/22/18 12:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			07/22/18 12:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			07/22/18 12:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			07/22/18 12:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			07/22/18 12:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			07/22/18 12:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			07/22/18 12:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			07/22/18 12:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			07/22/18 12:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			07/22/18 12:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			07/22/18 12:56	1
Acetone	10	U	10	3.0	ug/L			07/22/18 12:56	1
Benzene	1.0	U	1.0	0.41	ug/L			07/22/18 12:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			07/22/18 12:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			07/22/18 12:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			07/22/18 12:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			07/22/18 12:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			07/22/18 12:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			07/22/18 12:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/22/18 12:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			07/22/18 12:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			07/22/18 12:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			07/22/18 12:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			07/22/18 12:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			07/22/18 12:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			07/22/18 12:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			07/22/18 12:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			07/22/18 12:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			07/22/18 12:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			07/22/18 12:56	1
Methyl tert-butyl ether	**0.44**	**J**	1.0	0.16	ug/L			07/22/18 12:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			07/22/18 12:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			07/22/18 12:56	1
Styrene	1.0	U	1.0	0.73	ug/L			07/22/18 12:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			07/22/18 12:56	1
Toluene	1.0	U	1.0	0.51	ug/L			07/22/18 12:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			07/22/18 12:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			07/22/18 12:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			07/22/18 12:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			07/22/18 12:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			07/22/18 12:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			07/22/18 12:56	1

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: AMW-15-VD-W-180713
Date Collected: 07/13/18 21:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-17
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/22/18 12:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*07/22/18 12:56*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*07/22/18 12:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/22/18 12:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**41000**		5000	1900	ug/L			07/18/18 18:33	1
Ethane	7.5	U	7.5	1.5	ug/L			07/22/18 13:59	1
Ethene	7.0	U	7.0	1.5	ug/L			07/22/18 13:59	1
Methane	**37**		4.0	1.0	ug/L			07/22/18 13:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.6**		0.050	0.019	mg/L		07/20/18 08:21	07/20/18 17:38	1
Manganese	**0.32**	**B**	0.0030	0.00040	mg/L		07/20/18 08:21	07/20/18 17:38	1
Sodium	**8290**		20.0	6.5	mg/L		07/20/18 08:21	07/23/18 16:28	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19200**		250	141	mg/L			07/28/18 03:48	500
Sulfate	**1890**		200	34.9	mg/L			07/26/18 22:43	100
Alkalinity, Total	**357**	**B**	50.0	20.0	mg/L			07/19/18 12:18	5
Nitrate as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:38	1
Nitrite as N	0.050	U H	0.050	0.020	mg/L			07/17/18 18:38	1
Total Organic Carbon	**5.6**	**B**	1.0	0.43	mg/L			07/26/18 00:08	1
Ferric Iron	**10.6**		0.10	0.075	mg/L			07/31/18 10:35	1
Ferrous Iron	0.10	U HF	0.10	0.075	mg/L			07/23/18 11:00	1
Sulfide	**0.80**	**J**	1.0	0.67	mg/L			07/19/18 09:32	1

Surrogate Summary

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

TestAmerica Job ID: 480-139008-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-139008-1	AMW-7-W-180711	99	91	93	96
480-139008-2	AMW-14-D1-W-180712	101	97	100	99
480-139008-3	AMW-14-D2-W-180712	102	99	106	98
480-139008-4	AMW-14-VD-W-180712	103	98	103	97
480-139008-5	MW-18R-W-180711	102	97	100	97
480-139008-6	MW-23D-1R-W-180712	101	97	101	99
480-139008-7	MW-23D-2R-W-180712	104	100	103	98
480-139008-7 MS	MW-23D-2R-W-180712	103	102	100	101
480-139008-7 MSD	MW-23D-2R-W-180712	104	103	106	101
480-139008-8	MW-24-D1-W-180712	99	99	101	97
480-139008-9	MW-24-D2-W-180712	96	95	101	95
480-139008-10	MW-24-VD-W-180712	103	98	98	96
480-139008-11	MW-26-D1-W-180713	103	102	104	98
480-139008-11 - DL	MW-26-D1-W-180713	102	94	98	98
480-139008-12	MW-27-D1-W-180713	102	94	100	100
480-139008-13	MW-27-D2-W-180713	103	96	103	96
480-139008-14	MW-28-D2R-W-180713	98	97	101	95
480-139008-15	MW-29-D1-W-180713	111	98	96	97
480-139008-16	AMW-15-D3-W-180713	101	98	98	97
480-139008-17	AMW-15-VD-W-180713	102	95	104	98
LCS 480-425635/7	Lab Control Sample	99	100	100	99
LCS 480-425707/5	Lab Control Sample	102	99	105	99
MB 480-425635/9	Method Blank	98	97	98	97
MB 480-425707/7	Method Blank	100	99	102	99

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 480-425635/9
Matrix: Water
Analysis Batch: 425635

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	0.82	ug/L			07/20/18 21:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			07/20/18 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/20/18 21:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/20/18 21:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			07/20/18 21:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/20/18 21:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			07/20/18 21:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			07/20/18 21:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			07/20/18 21:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			07/20/18 21:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			07/20/18 21:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			07/20/18 21:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			07/20/18 21:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			07/20/18 21:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			07/20/18 21:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			07/20/18 21:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			07/20/18 21:59	1
Acetone	10	U	10	3.0	ug/L			07/20/18 21:59	1
Benzene	1.0	U	1.0	0.41	ug/L			07/20/18 21:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			07/20/18 21:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			07/20/18 21:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			07/20/18 21:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			07/20/18 21:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			07/20/18 21:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			07/20/18 21:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/20/18 21:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			07/20/18 21:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			07/20/18 21:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			07/20/18 21:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			07/20/18 21:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			07/20/18 21:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			07/20/18 21:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			07/20/18 21:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			07/20/18 21:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			07/20/18 21:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			07/20/18 21:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			07/20/18 21:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			07/20/18 21:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			07/20/18 21:59	1
Styrene	1.0	U	1.0	0.73	ug/L			07/20/18 21:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			07/20/18 21:59	1
Toluene	1.0	U	1.0	0.51	ug/L			07/20/18 21:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			07/20/18 21:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			07/20/18 21:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			07/20/18 21:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			07/20/18 21:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			07/20/18 21:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			07/20/18 21:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*07/20/18 21:59*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/20/18 21:59*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/20/18 21:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/20/18 21:59*	*1*

Lab Sample ID: LCS 480-425635/7
Matrix: Water
Analysis Batch: 425635

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	25.0	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	61 - 148
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	25.9		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	26.0		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	56 - 134
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	27.1		ug/L		108	77 - 120
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120
2-Butanone (MEK)	125	135		ug/L		108	57 - 140
2-Hexanone	125	139		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	138		ug/L		110	56 - 142
Benzene	25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	25.0	26.4		ug/L		106	80 - 122
Bromoform	25.0	26.3		ug/L		105	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	26.4		ug/L		106	59 - 134
Carbon tetrachloride	25.0	27.3		ug/L		109	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Chloroethane	25.0	25.4		ug/L		102	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	24.0		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124
Cyclohexane	25.0	23.0		ug/L		92	59 - 135
Dibromochloromethane	25.0	27.6		ug/L		111	75 - 125
Dichlorodifluoromethane	25.0	20.7		ug/L		83	59 - 135
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
Isopropylbenzene	25.0	27.5		ug/L		110	77 - 122
Methyl acetate	50.0	51.4		ug/L		103	74 - 133
Methyl tert-butyl ether	25.0	26.9		ug/L		108	77 - 120
Methylcyclohexane	25.0	22.3		ug/L		89	68 - 134
Methylene Chloride	25.0	26.2		ug/L		105	75 - 124
Styrene	25.0	27.4		ug/L		110	80 - 120
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
Toluene	25.0	25.6		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127

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

Lab Sample ID: LCS 480-425635/7
Matrix: Water
Analysis Batch: 425635

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	25.0	28.4		ug/L		114	80 - 120
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	22.7		ug/L		91	62 - 150
Vinyl chloride	25.0	24.5		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 480-139008-7 MS
Matrix: Water
Analysis Batch: 425635

Client Sample ID: MW-23D-2R-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	8.0	U	200	201		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	8.0	U	200	179		ug/L		90	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	200	187		ug/L		94	61 - 148
1,1,2-Trichloroethane	8.0	U	200	200		ug/L		100	76 - 122
1,1-Dichloroethane	8.0	U	200	190		ug/L		95	77 - 120
1,1-Dichloroethene	8.0	U	200	198		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	8.0	U	200	190		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	8.0	U	200	202		ug/L		101	56 - 134
1,2-Dibromoethane	8.0	U	200	197		ug/L		98	77 - 120
1,2-Dichlorobenzene	8.0	U	200	187		ug/L		93	80 - 124
1,2-Dichloroethane	8.0	U	200	186		ug/L		93	75 - 120
1,2-Dichloropropane	8.0	U	200	190		ug/L		95	76 - 120
1,3-Dichlorobenzene	8.0	U	200	192		ug/L		96	77 - 120
1,4-Dichlorobenzene	8.0	U	200	188		ug/L		94	78 - 124
2-Butanone (MEK)	80	U	1000	1010		ug/L		101	57 - 140
2-Hexanone	40	U	1000	994		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	40	U	1000	997		ug/L		100	71 - 125
Acetone	80	U	1000	1040		ug/L		104	56 - 142
Benzene	8.0	U	200	190		ug/L		95	71 - 124
Bromodichloromethane	8.0	U	200	191		ug/L		95	80 - 122
Bromoform	8.0	U	200	158		ug/L		79	61 - 132
Bromomethane	8.0	U	200	183		ug/L		91	55 - 144
Carbon disulfide	8.0	U	200	185		ug/L		92	59 - 134
Carbon tetrachloride	8.0	U	200	185		ug/L		92	72 - 134
Chlorobenzene	8.0	U	200	191		ug/L		96	80 - 120
Chloroethane	8.0	U	200	217		ug/L		109	69 - 136
Chloroform	8.0	U	200	182		ug/L		91	73 - 127
Chloromethane	8.0	U	200	183		ug/L		92	68 - 124
cis-1,2-Dichloroethene	8.0	U	200	199		ug/L		100	74 - 124
cis-1,3-Dichloropropene	8.0	U	200	172		ug/L		86	74 - 124
Cyclohexane	8.0	U	200	184		ug/L		92	59 - 135

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

Lab Sample ID: 480-139008-7 MS
Matrix: Water
Analysis Batch: 425635

Client Sample ID: MW-23D-2R-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	8.0	U	200	195		ug/L		98	75 - 125
Dichlorodifluoromethane	8.0	U	200	179		ug/L		89	59 - 135
Ethylbenzene	8.0	U	200	200		ug/L		100	77 - 123
Isopropylbenzene	8.0	U	200	197		ug/L		98	77 - 122
Methyl acetate	20	U	400	362		ug/L		90	74 - 133
Methyl tert-butyl ether	180		200	364		ug/L		91	77 - 120
Methylcyclohexane	8.0	U	200	172		ug/L		86	68 - 134
Methylene Chloride	8.0	U	200	190		ug/L		95	75 - 124
Styrene	8.0	U	200	197		ug/L		98	80 - 120
Tetrachloroethene	8.0	U	200	193		ug/L		96	74 - 122
Toluene	8.0	U	200	192		ug/L		96	80 - 122
trans-1,2-Dichloroethene	8.0	U	200	192		ug/L		96	73 - 127
trans-1,3-Dichloropropene	8.0	U	200	164		ug/L		82	80 - 120
Trichloroethene	8.0	U	200	186		ug/L		93	74 - 123
Trichlorofluoromethane	8.0	U	200	208		ug/L		104	62 - 150
Vinyl chloride	8.0	U	200	189		ug/L		95	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-139008-7 MSD
Matrix: Water
Analysis Batch: 425635

Client Sample ID: MW-23D-2R-W-180712
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	8.0	U	200	211		ug/L		105	73 - 126	5	15
1,1,2,2-Tetrachloroethane	8.0	U	200	190		ug/L		95	76 - 120	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	200	203		ug/L		102	61 - 148	8	20
1,1,2-Trichloroethane	8.0	U	200	187		ug/L		93	76 - 122	7	15
1,1-Dichloroethane	8.0	U	200	201		ug/L		101	77 - 120	5	20
1,1-Dichloroethene	8.0	U	200	203		ug/L		102	66 - 127	3	16
1,2,4-Trichlorobenzene	8.0	U	200	208		ug/L		104	79 - 122	9	20
1,2-Dibromo-3-Chloropropane	8.0	U	200	202		ug/L		101	56 - 134	0	15
1,2-Dibromoethane	8.0	U	200	185		ug/L		92	77 - 120	6	15
1,2-Dichlorobenzene	8.0	U	200	198		ug/L		99	80 - 124	6	20
1,2-Dichloroethane	8.0	U	200	193		ug/L		96	75 - 120	4	20
1,2-Dichloropropane	8.0	U	200	207		ug/L		103	76 - 120	8	20
1,3-Dichlorobenzene	8.0	U	200	206		ug/L		103	77 - 120	7	20
1,4-Dichlorobenzene	8.0	U	200	190		ug/L		95	78 - 124	1	20
2-Butanone (MEK)	80	U	1000	1060		ug/L		106	57 - 140	6	20
2-Hexanone	40	U	1000	966		ug/L		97	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	40	U	1000	978		ug/L		98	71 - 125	2	35
Acetone	80	U	1000	1020		ug/L		102	56 - 142	2	15
Benzene	8.0	U	200	204		ug/L		102	71 - 124	7	13

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

Lab Sample ID: 480-139008-7 MSD
Matrix: Water
Analysis Batch: 425635

Client Sample ID: MW-23D-2R-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	8.0	U	200	209		ug/L		104	80 - 122	9	15
Bromoform	8.0	U	200	154		ug/L		77	61 - 132	2	15
Bromomethane	8.0	U	200	185		ug/L		92	55 - 144	1	15
Carbon disulfide	8.0	U	200	204		ug/L		102	59 - 134	10	15
Carbon tetrachloride	8.0	U	200	196		ug/L		98	72 - 134	6	15
Chlorobenzene	8.0	U	200	190		ug/L		95	80 - 120	1	25
Chloroethane	8.0	U	200	218		ug/L		109	69 - 136	0	15
Chloroform	8.0	U	200	195		ug/L		97	73 - 127	7	20
Chloromethane	8.0	U	200	188		ug/L		94	68 - 124	3	15
cis-1,2-Dichloroethene	8.0	U	200	202		ug/L		101	74 - 124	1	15
cis-1,3-Dichloropropene	8.0	U	200	183		ug/L		91	74 - 124	6	15
Cyclohexane	8.0	U	200	194		ug/L		97	59 - 135	6	20
Dibromochloromethane	8.0	U	200	187		ug/L		93	75 - 125	4	15
Dichlorodifluoromethane	8.0	U	200	195		ug/L		98	59 - 135	9	20
Ethylbenzene	8.0	U	200	202		ug/L		101	77 - 123	1	15
Isopropylbenzene	8.0	U	200	207		ug/L		104	77 - 122	5	20
Methyl acetate	20	U	400	381		ug/L		95	74 - 133	5	20
Methyl tert-butyl ether	180		200	380		ug/L		99	77 - 120	4	37
Methylcyclohexane	8.0	U	200	182		ug/L		91	68 - 134	5	20
Methylene Chloride	8.0	U	200	201		ug/L		100	75 - 124	5	15
Styrene	8.0	U	200	199		ug/L		100	80 - 120	1	20
Tetrachloroethene	8.0	U	200	195		ug/L		98	74 - 122	1	20
Toluene	8.0	U	200	195		ug/L		97	80 - 122	1	15
trans-1,2-Dichloroethene	8.0	U	200	200		ug/L		100	73 - 127	4	20
trans-1,3-Dichloropropene	8.0	U	200	165		ug/L		82	80 - 120	1	15
Trichloroethene	8.0	U	200	206		ug/L		103	74 - 123	10	16
Trichlorofluoromethane	8.0	U	200	211		ug/L		106	62 - 150	2	20
Vinyl chloride	8.0	U	200	201		ug/L		100	65 - 133	6	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 480-425707/7
Matrix: Water
Analysis Batch: 425707

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	0.82	ug/L			07/22/18 10:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			07/22/18 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/22/18 10:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/22/18 10:48	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			07/22/18 10:48	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/22/18 10:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			07/22/18 10:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			07/22/18 10:48	1

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

Lab Sample ID: MB 480-425707/7
Matrix: Water
Analysis Batch: 425707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			07/22/18 10:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			07/22/18 10:48	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			07/22/18 10:48	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			07/22/18 10:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			07/22/18 10:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			07/22/18 10:48	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			07/22/18 10:48	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			07/22/18 10:48	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			07/22/18 10:48	1
Acetone	10	U	10	3.0	ug/L			07/22/18 10:48	1
Benzene	1.0	U	1.0	0.41	ug/L			07/22/18 10:48	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			07/22/18 10:48	1
Bromoform	1.0	U	1.0	0.26	ug/L			07/22/18 10:48	1
Bromomethane	1.0	U	1.0	0.69	ug/L			07/22/18 10:48	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			07/22/18 10:48	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			07/22/18 10:48	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			07/22/18 10:48	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/22/18 10:48	1
Chloroform	1.0	U	1.0	0.34	ug/L			07/22/18 10:48	1
Chloromethane	1.0	U	1.0	0.35	ug/L			07/22/18 10:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			07/22/18 10:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			07/22/18 10:48	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			07/22/18 10:48	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			07/22/18 10:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			07/22/18 10:48	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			07/22/18 10:48	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			07/22/18 10:48	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			07/22/18 10:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			07/22/18 10:48	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			07/22/18 10:48	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			07/22/18 10:48	1
Styrene	1.0	U	1.0	0.73	ug/L			07/22/18 10:48	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			07/22/18 10:48	1
Toluene	1.0	U	1.0	0.51	ug/L			07/22/18 10:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			07/22/18 10:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			07/22/18 10:48	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			07/22/18 10:48	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			07/22/18 10:48	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			07/22/18 10:48	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			07/22/18 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*07/22/18 10:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/22/18 10:48*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*07/22/18 10:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/22/18 10:48*	*1*

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

Lab Sample ID: LCS 480-425707/5
Matrix: Water
Analysis Batch: 425707

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	25.0	24.6		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.2		ug/L		81	61 - 148
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	22.4		ug/L		89	66 - 127
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dibromoethane	25.0	22.6		ug/L		90	77 - 120
1,2-Dichlorobenzene	25.0	24.6		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	121		ug/L		96	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	107		ug/L		86	56 - 142
Benzene	25.0	24.0		ug/L		96	71 - 124
Bromodichloromethane	25.0	24.1		ug/L		96	80 - 122
Bromoform	25.0	23.2		ug/L		93	61 - 132
Bromomethane	25.0	22.6		ug/L		90	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	22.8		ug/L		91	72 - 134
Chlorobenzene	25.0	23.9		ug/L		95	80 - 120
Chloroethane	25.0	24.3		ug/L		97	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
Chloromethane	25.0	22.4		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	23.7		ug/L		95	59 - 135
Dibromochloromethane	25.0	25.6		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	23.8		ug/L		95	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	50.0	44.6		ug/L		89	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	23.0		ug/L		92	68 - 134
Methylene Chloride	25.0	23.1		ug/L		92	75 - 124
Styrene	25.0	25.2		ug/L		101	80 - 120
Tetrachloroethene	25.0	23.7		ug/L		95	74 - 122
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	23.9		ug/L		95	74 - 123
Trichlorofluoromethane	25.0	23.4		ug/L		94	62 - 150
Vinyl chloride	25.0	22.2		ug/L		89	65 - 133

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

Lab Sample ID: LCS 480-425707/5
Matrix: Water
Analysis Batch: 425707

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-131931/4
Matrix: Water
Analysis Batch: 131931

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			07/18/18 16:31	1

Lab Sample ID: LCS 200-131931/3
Matrix: Water
Analysis Batch: 131931

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	38600		ug/L		97	70 - 130

Lab Sample ID: MB 480-425021/5
Matrix: Water
Analysis Batch: 425021

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			07/18/18 11:37	1
Ethene	7.0	U	7.0	1.5	ug/L			07/18/18 11:37	1
Methane	4.0	U	4.0	1.0	ug/L			07/18/18 11:37	1

Lab Sample ID: LCS 480-425021/6
Matrix: Water
Analysis Batch: 425021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	14.4		ug/L		99	79 - 120
Ethene	13.6	14.0		ug/L		103	85 - 120
Methane	7.77	7.23		ug/L		93	85 - 120

Lab Sample ID: MB 480-425494/3
Matrix: Water
Analysis Batch: 425494

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			07/20/18 09:17	1
Ethene	7.0	U	7.0	1.5	ug/L			07/20/18 09:17	1
Methane	4.0	U	4.0	1.0	ug/L			07/20/18 09:17	1

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

Lab Sample ID: LCS 480-425494/4
Matrix: Water
Analysis Batch: 425494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	13.7		ug/L		94	79 - 120
Ethene	13.6	12.8		ug/L		94	85 - 120
Methane	7.77	8.15		ug/L		105	85 - 120

Lab Sample ID: LCSD 480-425494/5
Matrix: Water
Analysis Batch: 425494

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	14.6	13.0		ug/L		89	79 - 120	5	50
Ethene	13.6	12.2		ug/L		90	85 - 120	5	50
Methane	7.77	7.74		ug/L		100	85 - 120	5	50

Lab Sample ID: MB 480-425726/4
Matrix: Water
Analysis Batch: 425726

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			07/22/18 12:12	1
Ethene	7.0	U	7.0	1.5	ug/L			07/22/18 12:12	1
Methane	4.0	U	4.0	1.0	ug/L			07/22/18 12:12	1

Lab Sample ID: LCS 480-425726/5
Matrix: Water
Analysis Batch: 425726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	14.3		ug/L		98	79 - 120
Ethene	13.6	13.9		ug/L		103	85 - 120
Methane	7.77	6.99		ug/L		90	85 - 120

Lab Sample ID: LCSD 480-425726/6
Matrix: Water
Analysis Batch: 425726

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	14.6	14.9		ug/L		102	79 - 120	5	50
Ethene	13.6	14.4		ug/L		106	85 - 120	4	50
Methane	7.77	7.47		ug/L		96	85 - 120	7	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-424891/1-A
Matrix: Water
Analysis Batch: 426051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050	0.019	mg/L		07/18/18 08:55	07/18/18 23:53	1
Manganese	0.00229	J	0.0030	0.00040	mg/L		07/18/18 08:55	07/18/18 23:53	1

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

Lab Sample ID: MB 480-424891/1-A
Matrix: Water
Analysis Batch: 426051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	1.0	U	1.0	0.32	mg/L		07/18/18 08:55	07/18/18 23:53	1

Lab Sample ID: LCS 480-424891/2-A
Matrix: Water
Analysis Batch: 426051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.09		mg/L		101	80 - 120
Manganese	0.200	0.207		mg/L		103	80 - 120
Sodium	10.0	9.49		mg/L		95	80 - 120

Lab Sample ID: MB 480-425370/1-A
Matrix: Water
Analysis Batch: 425786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050	0.019	mg/L		07/20/18 08:21	07/20/18 16:56	1
Manganese	0.000730	J	0.0030	0.00040	mg/L		07/20/18 08:21	07/20/18 16:56	1
Sodium	1.0	U	1.0	0.32	mg/L		07/20/18 08:21	07/20/18 16:56	1

Lab Sample ID: LCS 480-425370/2-A
Matrix: Water
Analysis Batch: 425786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 425370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.65		mg/L		97	80 - 120
Manganese	0.200	0.195		mg/L		97	80 - 120
Sodium	10.0	9.37		mg/L		94	80 - 120

Lab Sample ID: MB 480-425574/1-A
Matrix: Water
Analysis Batch: 426011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050	0.019	mg/L		07/21/18 08:53	07/24/18 01:09	1
Manganese	0.000500	J	0.0030	0.00040	mg/L		07/21/18 08:53	07/24/18 01:09	1
Sodium	1.0	U	1.0	0.32	mg/L		07/21/18 08:53	07/24/18 01:09	1

Lab Sample ID: LCS 480-425574/2-A
Matrix: Water
Analysis Batch: 426011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 425574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.73		mg/L		97	80 - 120
Manganese	0.200	0.199		mg/L		100	80 - 120
Sodium	10.0	9.17		mg/L		92	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-426119/28
Matrix: Water
Analysis Batch: 426119

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			07/25/18 22:29	1
Sulfate	2.0	U	2.0	0.35	mg/L			07/25/18 22:29	1

Lab Sample ID: LCS 480-426119/27
Matrix: Water
Analysis Batch: 426119

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	52.16		mg/L		104	90 - 110
Sulfate	50.0	50.38		mg/L		101	90 - 110

Lab Sample ID: 480-139008-3 MS
Matrix: Water
Analysis Batch: 426119

Client Sample ID: AMW-14-D2-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4380		2500	6833	E	mg/L		98	81 - 120
Sulfate	315		2500	2859		mg/L		102	80 - 120

Lab Sample ID: MB 480-426629/4
Matrix: Water
Analysis Batch: 426629

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			07/26/18 20:17	1
Sulfate	2.0	U	2.0	0.35	mg/L			07/26/18 20:17	1

Lab Sample ID: LCS 480-426629/3
Matrix: Water
Analysis Batch: 426629

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	50.09		mg/L		100	90 - 110
Sulfate	50.0	45.88		mg/L		92	90 - 110

Lab Sample ID: 480-139008-9 MS
Matrix: Water
Analysis Batch: 426629

Client Sample ID: MW-24-D2-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	182		100	276.2	E	mg/L		94	81 - 120
Sulfate	28.0		100	121.5		mg/L		94	80 - 120

Lab Sample ID: 480-139008-9 MSD
Matrix: Water
Analysis Batch: 426629

Client Sample ID: MW-24-D2-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	182		100	278.7	E	mg/L		96	81 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-139008-9 MSD — **Client Sample ID: MW-24-D2-W-180712**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	28.0		100	123.3		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 480-426791/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			07/27/18 21:43	1
Sulfate	2.0	U	2.0	0.35	mg/L			07/27/18 21:43	1

Lab Sample ID: MB 480-426791/52 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.28	mg/L			07/28/18 03:33	1
Sulfate	2.0	U	2.0	0.35	mg/L			07/28/18 03:33	1

Lab Sample ID: LCS 480-426791/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	53.09		mg/L		106	90 - 110
Sulfate	50.0	51.26		mg/L		103	90 - 110

Lab Sample ID: LCS 480-426791/51 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	53.34		mg/L		107	90 - 110
Sulfate	50.0	51.58		mg/L		103	90 - 110

Lab Sample ID: 480-139008-13 MS — **Client Sample ID: MW-27-D2-W-180713**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 426791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7510		10000	18490		mg/L		110	81 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-425134/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 425134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.19	J	10.0	4.0	mg/L			07/18/18 12:04	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-425134/43
Matrix: Water
Analysis Batch: 425134

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			07/18/18 14:38	1

Lab Sample ID: MB 480-425134/69
Matrix: Water
Analysis Batch: 425134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	6.07	J	10.0	4.0	mg/L			07/18/18 14:56	1

Lab Sample ID: MB 480-425134/78
Matrix: Water
Analysis Batch: 425134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	5.41	J	10.0	4.0	mg/L			07/18/18 15:08	1

Lab Sample ID: MB 480-425134/87
Matrix: Water
Analysis Batch: 425134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.44	J	10.0	4.0	mg/L			07/18/18 15:17	1

Lab Sample ID: LCS 480-425134/13
Matrix: Water
Analysis Batch: 425134

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	51.63		mg/L		103	90 - 110

Lab Sample ID: LCS 480-425134/44
Matrix: Water
Analysis Batch: 425134

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	51.35		mg/L		103	90 - 110

Lab Sample ID: LCS 480-425134/70
Matrix: Water
Analysis Batch: 425134

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	50.64		mg/L		101	90 - 110

Lab Sample ID: LCS 480-425134/79
Matrix: Water
Analysis Batch: 425134

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	51.60		mg/L		103	90 - 110

Lab Sample ID: LCS 480-425134/88
Matrix: Water
Analysis Batch: 425134

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	50.83		mg/L		102	90 - 110

Lab Sample ID: MB 480-425377/106
Matrix: Water
Analysis Batch: 425377

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			07/19/18 13:16	1

Lab Sample ID: MB 480-425377/24
Matrix: Water
Analysis Batch: 425377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	7.55	J	10.0	4.0	mg/L			07/19/18 12:08	1

Lab Sample ID: MB 480-425377/42
Matrix: Water
Analysis Batch: 425377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	5.88	J	10.0	4.0	mg/L			07/19/18 12:17	1

Lab Sample ID: MB 480-425377/50
Matrix: Water
Analysis Batch: 425377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	6.56	J	10.0	4.0	mg/L			07/19/18 12:25	1

Lab Sample ID: MB 480-425377/69
Matrix: Water
Analysis Batch: 425377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	5.78	J	10.0	4.0	mg/L			07/19/18 12:46	1

Lab Sample ID: MB 480-425377/78
Matrix: Water
Analysis Batch: 425377

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			07/19/18 12:49	1

Lab Sample ID: MB 480-425377/95
Matrix: Water
Analysis Batch: 425377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.59	J	10.0	4.0	mg/L			07/19/18 13:00	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-425377/107
Matrix: Water
Analysis Batch: 425377

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	48.91		mg/L		98	90 - 110

Lab Sample ID: LCS 480-425377/25
Matrix: Water
Analysis Batch: 425377

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	53.43		mg/L		107	90 - 110

Lab Sample ID: LCS 480-425377/43
Matrix: Water
Analysis Batch: 425377

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	53.77		mg/L		108	90 - 110

Lab Sample ID: LCS 480-425377/51
Matrix: Water
Analysis Batch: 425377

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	51.32		mg/L		103	90 - 110

Lab Sample ID: LCS 480-425377/70
Matrix: Water
Analysis Batch: 425377

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	51.80		mg/L		104	90 - 110

Lab Sample ID: LCS 480-425377/79
Matrix: Water
Analysis Batch: 425377

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	48.50		mg/L		97	90 - 110

Lab Sample ID: LCS 480-425377/96
Matrix: Water
Analysis Batch: 425377

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	49.79		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-425199/27
Matrix: Water
Analysis Batch: 425199

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			07/18/18 21:59	1

Lab Sample ID: MB 480-425199/3
Matrix: Water
Analysis Batch: 425199

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			07/18/18 21:33	1

Lab Sample ID: LCS 480-425199/28
Matrix: Water
Analysis Batch: 425199

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

Lab Sample ID: LCS 480-425199/4
Matrix: Water
Analysis Batch: 425199

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	1.53		mg/L		102	90 - 110

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

Lab Sample ID: MB 480-426555/28
Matrix: Water
Analysis Batch: 426555

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	0.755	J	1.0	0.43	mg/L			07/25/18 06:45	1

Lab Sample ID: MB 480-426555/52
Matrix: Water
Analysis Batch: 426555

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	0.736	J	1.0	0.43	mg/L			07/25/18 17:54	1

Lab Sample ID: MB 480-426555/76
Matrix: Water
Analysis Batch: 426555

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	0.730	J	1.0	0.43	mg/L			07/26/18 05:07	1

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

Lab Sample ID: LCS 480-426555/29
Matrix: Water
Analysis Batch: 426555

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	57.49		mg/L		96	90 - 110

Lab Sample ID: LCS 480-426555/53
Matrix: Water
Analysis Batch: 426555

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	57.48		mg/L		96	90 - 110

Lab Sample ID: LCS 480-426555/77
Matrix: Water
Analysis Batch: 426555

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	57.18		mg/L		95	90 - 110

Lab Sample ID: 480-139008-1 DU
Matrix: Water
Analysis Batch: 426555

Client Sample ID: AMW-7-W-180711
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	27.4	B	24.41		mg/L		12	20

Lab Sample ID: 480-139008-5 DU
Matrix: Water
Analysis Batch: 426555

Client Sample ID: MW-18R-W-180711
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	184	B	185.8		mg/L		1	20

Lab Sample ID: MB 480-426833/4
Matrix: Water
Analysis Batch: 426833

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	0.779	J	1.0	0.43	mg/L			07/26/18 22:29	1

Lab Sample ID: LCS 480-426833/5
Matrix: Water
Analysis Batch: 426833

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	57.78		mg/L		96	90 - 110

Lab Sample ID: 480-139008-11 DU
Matrix: Water
Analysis Batch: 426833

Client Sample ID: MW-26-D1-W-180713
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	14.1	B	15.32		mg/L		8	20

Lab Sample ID: MB 480-426851/4
Matrix: Water
Analysis Batch: 426851

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	0.621	J	1.0	0.43	mg/L			07/25/18 20:38	1

Lab Sample ID: MB 480-426851/52
Matrix: Water
Analysis Batch: 426851

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	0.557	J	1.0	0.43	mg/L			07/26/18 20:27	1

Lab Sample ID: LCS 480-426851/5
Matrix: Water
Analysis Batch: 426851

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	54.74		mg/L		91	90 - 110

Lab Sample ID: LCS 480-426851/53
Matrix: Water
Analysis Batch: 426851

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	54.92		mg/L		92	90 - 110

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

Lab Sample ID: MB 480-425886/27
Matrix: Water
Analysis Batch: 425886

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			07/23/18 11:00	1

Lab Sample ID: MB 480-425886/3
Matrix: Water
Analysis Batch: 425886

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			07/23/18 11:00	1

Lab Sample ID: LCS 480-425886/28
Matrix: Water
Analysis Batch: 425886

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	2.14		mg/L		107	90 - 110

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

Lab Sample ID: LCS 480-425886/4
Matrix: Water
Analysis Batch: 425886

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	2.17		mg/L		109	90 - 110

Lab Sample ID: 480-139008-7 MS
Matrix: Water
Analysis Batch: 425886

Client Sample ID: MW-23D-2R-W-180712
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	1.00	1.22		mg/L		122	70 - 130

Lab Sample ID: 480-139008-6 DU
Matrix: Water
Analysis Batch: 425886

Client Sample ID: MW-23D-1R-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.26	HF	0.269		mg/L		4	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-425205/3
Matrix: Water
Analysis Batch: 425205

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			07/18/18 14:45	1

Lab Sample ID: LCS 480-425205/4
Matrix: Water
Analysis Batch: 425205

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.50	9.00		mg/L		106	90 - 110

Lab Sample ID: MB 480-425424/27
Matrix: Water
Analysis Batch: 425424

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			07/19/18 09:32	1

Lab Sample ID: MB 480-425424/3
Matrix: Water
Analysis Batch: 425424

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			07/19/18 09:32	1

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

Lab Sample ID: LCS 480-425424/28
Matrix: Water
Analysis Batch: 425424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.50	8.80		mg/L		104	90 - 110

Lab Sample ID: LCS 480-425424/4
Matrix: Water
Analysis Batch: 425424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.50	8.80		mg/L		104	90 - 110

Lab Sample ID: 480-139008-4 MS
Matrix: Water
Analysis Batch: 425424

Client Sample ID: AMW-14-VD-W-180712
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	5.2	F1	2.20	8.80	F1	mg/L		164	40 - 150

Lab Sample ID: 480-139008-17 DU
Matrix: Water
Analysis Batch: 425424

Client Sample ID: AMW-15-VD-W-180713
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	0.80	J	0.800	J	mg/L		0	20

QC Association Summary

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

TestAmerica Job ID: 480-139008-1

GC/MS VOA

Analysis Batch: 425635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	8260C	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	8260C	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	8260C	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	8260C	
480-139008-5	MW-18R-W-180711	Total/NA	Water	8260C	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	8260C	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	8260C	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	8260C	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	8260C	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	8260C	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	8260C	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	8260C	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	8260C	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	8260C	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	8260C	
MB 480-425635/9	Method Blank	Total/NA	Water	8260C	
LCS 480-425635/7	Lab Control Sample	Total/NA	Water	8260C	
480-139008-7 MS	MW-23D-2R-W-180712	Total/NA	Water	8260C	
480-139008-7 MSD	MW-23D-2R-W-180712	Total/NA	Water	8260C	

Analysis Batch: 425707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11 - DL	MW-26-D1-W-180713	Total/NA	Water	8260C	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	8260C	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	8260C	
MB 480-425707/7	Method Blank	Total/NA	Water	8260C	
LCS 480-425707/5	Lab Control Sample	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 131931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	RSK-175	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	RSK-175	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	RSK-175	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	RSK-175	
480-139008-5	MW-18R-W-180711	Total/NA	Water	RSK-175	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	RSK-175	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	RSK-175	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	RSK-175	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	RSK-175	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	RSK-175	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	RSK-175	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	RSK-175	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	RSK-175	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	RSK-175	
MB 200-131931/4	Method Blank	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 131931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-131931/3	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 425021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	RSK-175	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	RSK-175	
MB 480-425021/5	Method Blank	Total/NA	Water	RSK-175	
LCS 480-425021/6	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 425494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	RSK-175	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	RSK-175	
480-139008-5	MW-18R-W-180711	Total/NA	Water	RSK-175	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	RSK-175	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	RSK-175	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	RSK-175	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	RSK-175	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	RSK-175	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	RSK-175	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	RSK-175	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	RSK-175	
MB 480-425494/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-425494/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-425494/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 425726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	RSK-175	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	RSK-175	
MB 480-425726/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-425726/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-425726/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 424891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	3005A	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	3005A	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	3005A	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	3005A	
480-139008-5	MW-18R-W-180711	Total/NA	Water	3005A	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	3005A	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	3005A	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	3005A	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	3005A	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 424891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	3005A	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	3005A	
MB 480-424891/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-424891/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 425370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	3005A	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	3005A	
MB 480-425370/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-425370/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 425528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	6010C	424891
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	6010C	424891
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	6010C	424891
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	6010C	424891
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	6010C	424891
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	6010C	424891
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	6010C	424891
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	6010C	424891
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	6010C	424891

Prep Batch: 425574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	3005A	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	3005A	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	3005A	
MB 480-425574/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-425574/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 425786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	6010C	425370
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	6010C	425370
MB 480-425370/1-A	Method Blank	Total/NA	Water	6010C	425370
LCS 480-425370/2-A	Lab Control Sample	Total/NA	Water	6010C	425370

Analysis Batch: 426011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	6010C	425574
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	6010C	425574
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	6010C	425574
MB 480-425574/1-A	Method Blank	Total/NA	Water	6010C	425574
LCS 480-425574/2-A	Lab Control Sample	Total/NA	Water	6010C	425574

Analysis Batch: 426022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	6010C	425370
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	6010C	425370

Analysis Batch: 426051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	6010C	424891
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	6010C	424891
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	6010C	424891
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	6010C	424891
480-139008-5	MW-18R-W-180711	Total/NA	Water	6010C	424891
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	6010C	424891
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	6010C	424891
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	6010C	424891
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	6010C	424891
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	6010C	424891
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	6010C	424891
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	6010C	424891
MB 480-424891/1-A	Method Blank	Total/NA	Water	6010C	424891
LCS 480-424891/2-A	Lab Control Sample	Total/NA	Water	6010C	424891

Analysis Batch: 426285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	6010C	425574
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	6010C	425574
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	6010C	425574

General Chemistry

Analysis Batch: 425134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	310.2	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	310.2	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	310.2	
480-139008-5	MW-18R-W-180711	Total/NA	Water	310.2	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	310.2	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	310.2	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	310.2	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	310.2	
MB 480-425134/12	Method Blank	Total/NA	Water	310.2	
MB 480-425134/43	Method Blank	Total/NA	Water	310.2	
MB 480-425134/69	Method Blank	Total/NA	Water	310.2	
MB 480-425134/78	Method Blank	Total/NA	Water	310.2	
MB 480-425134/87	Method Blank	Total/NA	Water	310.2	
LCS 480-425134/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425134/44	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425134/70	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425134/79	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425134/88	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 425172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	353.2	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	353.2	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	353.2	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	353.2	
480-139008-5	MW-18R-W-180711	Total/NA	Water	353.2	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	353.2	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 425172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	353.2	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	353.2	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	353.2	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	353.2	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	353.2	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	353.2	

Analysis Batch: 425199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	353.2	
MB 480-425199/27	Method Blank	Total/NA	Water	353.2	
MB 480-425199/3	Method Blank	Total/NA	Water	353.2	
LCS 480-425199/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-425199/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 425205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	SM 4500 S2 F	
480-139008-5	MW-18R-W-180711	Total/NA	Water	SM 4500 S2 F	
MB 480-425205/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-425205/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 425377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	310.2	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	310.2	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	310.2	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	310.2	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	310.2	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	310.2	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	310.2	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	310.2	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	310.2	
MB 480-425377/106	Method Blank	Total/NA	Water	310.2	
MB 480-425377/24	Method Blank	Total/NA	Water	310.2	
MB 480-425377/42	Method Blank	Total/NA	Water	310.2	
MB 480-425377/50	Method Blank	Total/NA	Water	310.2	
MB 480-425377/69	Method Blank	Total/NA	Water	310.2	
MB 480-425377/78	Method Blank	Total/NA	Water	310.2	
MB 480-425377/95	Method Blank	Total/NA	Water	310.2	
LCS 480-425377/107	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/25	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/43	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/51	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/70	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/79	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-425377/96	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 425424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 425424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	SM 4500 S2 F	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	SM 4500 S2 F	
MB 480-425424/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-425424/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-425424/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-425424/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-139008-4 MS	AMW-14-VD-W-180712	Total/NA	Water	SM 4500 S2 F	
480-139008-17 DU	AMW-15-VD-W-180713	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 425653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	353.2	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	353.2	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	353.2	

Analysis Batch: 425654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	353.2	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	353.2	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	353.2	

Analysis Batch: 425886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	SM 3500 FE D	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-5	MW-18R-W-180711	Total/NA	Water	SM 3500 FE D	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	SM 3500 FE D	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	SM 3500 FE D	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	SM 3500 FE D	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	SM 3500 FE D	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	SM 3500 FE D	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 425886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	SM 3500 FE D	
MB 480-425886/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-425886/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-425886/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-425886/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-139008-7 MS	MW-23D-2R-W-180712	Total/NA	Water	SM 3500 FE D	
480-139008-6 DU	MW-23D-1R-W-180712	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 426119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	300.0	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	300.0	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	300.0	
MB 480-426119/28	Method Blank	Total/NA	Water	300.0	
LCS 480-426119/27	Lab Control Sample	Total/NA	Water	300.0	
480-139008-3 MS	AMW-14-D2-W-180712	Total/NA	Water	300.0	

Analysis Batch: 426555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	9060A	
480-139008-5	MW-18R-W-180711	Total/NA	Water	9060A	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	9060A	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	9060A	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	9060A	
MB 480-426555/28	Method Blank	Total/NA	Water	9060A	
MB 480-426555/52	Method Blank	Total/NA	Water	9060A	
MB 480-426555/76	Method Blank	Total/NA	Water	9060A	
LCS 480-426555/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-426555/53	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-426555/77	Lab Control Sample	Total/NA	Water	9060A	
480-139008-1 DU	AMW-7-W-180711	Total/NA	Water	9060A	
480-139008-5 DU	MW-18R-W-180711	Total/NA	Water	9060A	

Analysis Batch: 426629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	300.0	
480-139008-5	MW-18R-W-180711	Total/NA	Water	300.0	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	300.0	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	300.0	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	300.0	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	300.0	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	300.0	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	300.0	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	300.0	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	300.0	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	300.0	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	300.0	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	300.0	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	300.0	
MB 480-426629/4	Method Blank	Total/NA	Water	300.0	
LCS 480-426629/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 426629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-9 MS	MW-24-D2-W-180712	Total/NA	Water	300.0	
480-139008-9 MSD	MW-24-D2-W-180712	Total/NA	Water	300.0	

Analysis Batch: 426791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	300.0	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	300.0	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	300.0	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	300.0	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	300.0	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	300.0	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	300.0	
MB 480-426791/28	Method Blank	Total/NA	Water	300.0	
MB 480-426791/52	Method Blank	Total/NA	Water	300.0	
LCS 480-426791/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-426791/51	Lab Control Sample	Total/NA	Water	300.0	
480-139008-13 MS	MW-27-D2-W-180713	Total/NA	Water	300.0	

Analysis Batch: 426833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	9060A	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	9060A	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	9060A	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	9060A	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	9060A	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	9060A	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	9060A	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	9060A	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	9060A	
MB 480-426833/4	Method Blank	Total/NA	Water	9060A	
LCS 480-426833/5	Lab Control Sample	Total/NA	Water	9060A	
480-139008-11 DU	MW-26-D1-W-180713	Total/NA	Water	9060A	

Analysis Batch: 426851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	9060A	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	9060A	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	9060A	
MB 480-426851/4	Method Blank	Total/NA	Water	9060A	
MB 480-426851/52	Method Blank	Total/NA	Water	9060A	
LCS 480-426851/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-426851/53	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 427257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	SM 3500	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	SM 3500	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	SM 3500	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	SM 3500	
480-139008-5	MW-18R-W-180711	Total/NA	Water	SM 3500	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	SM 3500	

General Chemistry (Continued)

Analysis Batch: 427257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	SM 3500	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	SM 3500	
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	SM 3500	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	SM 3500	
480-139008-11	MW-26-D1-W-180713	Total/NA	Water	SM 3500	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	SM 3500	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	SM 3500	
480-139008-14	MW-28-D2R-W-180713	Total/NA	Water	SM 3500	
480-139008-15	MW-29-D1-W-180713	Total/NA	Water	SM 3500	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	SM 3500	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	SM 3500	

Analysis Batch: 427326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-1	AMW-7-W-180711	Total/NA	Water	353.2	
480-139008-2	AMW-14-D1-W-180712	Total/NA	Water	353.2	
480-139008-3	AMW-14-D2-W-180712	Total/NA	Water	353.2	
480-139008-4	AMW-14-VD-W-180712	Total/NA	Water	353.2	
480-139008-5	MW-18R-W-180711	Total/NA	Water	353.2	
480-139008-6	MW-23D-1R-W-180712	Total/NA	Water	353.2	
480-139008-7	MW-23D-2R-W-180712	Total/NA	Water	353.2	
480-139008-8	MW-24-D1-W-180712	Total/NA	Water	353.2	
480-139008-10	MW-24-VD-W-180712	Total/NA	Water	353.2	
480-139008-12	MW-27-D1-W-180713	Total/NA	Water	353.2	
480-139008-13	MW-27-D2-W-180713	Total/NA	Water	353.2	
480-139008-16	AMW-15-D3-W-180713	Total/NA	Water	353.2	
480-139008-17	AMW-15-VD-W-180713	Total/NA	Water	353.2	

Analysis Batch: 427331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139008-9	MW-24-D2-W-180712	Total/NA	Water	353.2	

Client Sample ID: AMW-7-W-180711

Lab Sample ID: 480-139008-1

Date Collected: 07/11/18 23:48

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425635	07/20/18 22:42	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 16:40	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425021	07/18/18 15:42	DSC	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:01	LMH	TAL BUF
Total/NA	Analysis	300.0		5	426119	07/26/18 02:37	DMR	TAL BUF
Total/NA	Analysis	310.2		9	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:13	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:13	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426555	07/25/18 13:14	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425205	07/18/18 14:45	LAW	TAL BUF

Client Sample ID: AMW-14-D1-W-180712

Lab Sample ID: 480-139008-2

Date Collected: 07/12/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	425635	07/20/18 23:05	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 16:49	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	425021	07/18/18 16:23	DSC	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:05	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		2	425528	07/19/18 13:34	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426119	07/26/18 02:52	DMR	TAL BUF
Total/NA	Analysis	310.2		7	425134	07/18/18 15:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:14	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:14	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 00:48	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: AMW-14-D2-W-180712

Lab Sample ID: 480-139008-3

Date Collected: 07/12/18 01:20

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425635	07/20/18 23:29	AMM	TAL BUF

Lab Chronicle

Client: Leidos, Inc. TestAmerica Job ID: 480-139008-1
Project/Site: CHEVRON - CVX#6518040 - Oceanside, NY

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	131931	07/18/18 16:58	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 10:39	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:09	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		5	425528	07/19/18 13:38	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426119	07/26/18 03:06	DMR	TAL BUF
Total/NA	Analysis	310.2		9	425134	07/18/18 15:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:15	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:15	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 01:16	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: AMW-14-VD-W-180712
Lab Sample ID: 480-139008-4
Date Collected: 07/12/18 01:05
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425635	07/20/18 23:52	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:06	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	425494	07/20/18 10:56	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:13	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		20	425528	07/19/18 13:42	LMH	TAL BUF
Total/NA	Analysis	300.0		500	426791	07/28/18 01:07	DMR	TAL BUF
Total/NA	Analysis	300.0		100	426629	07/26/18 20:25	DMR	TAL BUF
Total/NA	Analysis	310.2		5	425134	07/18/18 15:06	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:16	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:16	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 01:44	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-18R-W-180711
Lab Sample ID: 480-139008-5
Date Collected: 07/11/18 22:50
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	425635	07/21/18 00:15	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:15	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	425494	07/20/18 11:14	BEK	TAL BUF

Client Sample ID: MW-18R-W-180711

Lab Sample ID: 480-139008-5

Date Collected: 07/11/18 22:50

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:17	LMH	TAL BUF
Total/NA	Analysis	300.0		5	426629	07/26/18 20:33	DMR	TAL BUF
Total/NA	Analysis	310.2		2	425134	07/18/18 15:06	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:22	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:22	MMB	TAL BUF
Total/NA	Analysis	9060A		4	426555	07/26/18 06:59	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425205	07/18/18 14:45	LAW	TAL BUF

Client Sample ID: MW-23D-1R-W-180712

Lab Sample ID: 480-139008-6

Date Collected: 07/12/18 03:15

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	425635	07/21/18 00:38	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:24	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 11:31	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:21	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		2	425528	07/19/18 13:46	LMH	TAL BUF
Total/NA	Analysis	300.0		100	426791	07/28/18 01:22	DMR	TAL BUF
Total/NA	Analysis	300.0		20	426629	07/26/18 20:41	DMR	TAL BUF
Total/NA	Analysis	310.2		6	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:23	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:23	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 02:13	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-23D-2R-W-180712

Lab Sample ID: 480-139008-7

Date Collected: 07/12/18 02:55

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	425635	07/21/18 01:02	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:32	MLT	TAL BUR
Total/NA	Analysis	RSK-175		22	425494	07/20/18 11:49	BEK	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: MW-23D-2R-W-180712

Lab Sample ID: 480-139008-7

Date Collected: 07/12/18 02:55
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:25	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		5	425528	07/19/18 14:01	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426629	07/26/18 20:49	DMR	TAL BUF
Total/NA	Analysis	310.2		7	425134	07/18/18 15:23	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:24	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:24	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 02:41	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-24-D1-W-180712

Lab Sample ID: 480-139008-8

Date Collected: 07/12/18 23:55
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	425635	07/21/18 01:25	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:41	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 12:06	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:40	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		5	425528	07/19/18 14:05	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426629	07/26/18 20:57	DMR	TAL BUF
Total/NA	Analysis	310.2		10	425134	07/18/18 15:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:25	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:25	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 05:58	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-24-D2-W-180712

Lab Sample ID: 480-139008-9

Date Collected: 07/12/18 23:30
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425635	07/21/18 01:48	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:50	MLT	TAL BUR

Client Sample ID: MW-24-D2-W-180712

Lab Sample ID: 480-139008-9

Date Collected: 07/12/18 23:30
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	425494	07/20/18 12:24	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:44	LMH	TAL BUF
Total/NA	Analysis	300.0		2	426629	07/26/18 21:06	DMR	TAL BUF
Total/NA	Analysis	310.2		2	425134	07/18/18 14:58	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425199	07/18/18 21:56	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427331	07/18/18 21:56	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426555	07/26/18 03:14	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-24-VD-W-180712

Lab Sample ID: 480-139008-10

Date Collected: 07/12/18 22:40
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	425635	07/21/18 02:11	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 17:58	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	425494	07/20/18 12:41	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:48	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		20	425528	07/19/18 14:09	LMH	TAL BUF
Total/NA	Analysis	300.0		500	426791	07/28/18 01:36	DMR	TAL BUF
Total/NA	Analysis	300.0		100	426629	07/26/18 21:46	DMR	TAL BUF
Total/NA	Analysis	310.2		5	425134	07/18/18 15:16	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:28	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:28	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426555	07/26/18 03:42	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-26-D1-W-180713

Lab Sample ID: 480-139008-11

Date Collected: 07/13/18 02:20
Matrix: Water
Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425635	07/21/18 02:35	AMM	TAL BUF
Total/NA	Analysis	8260C	DL	5	425707	07/22/18 12:10	S1V	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: MW-26-D1-W-180713

Lab Sample ID: 480-139008-11

Date Collected: 07/13/18 02:20

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	131931	07/19/18 13:26	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 13:16	BEK	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		1	426011	07/24/18 02:32	LMH	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		2	426285	07/24/18 15:15	LMH	TAL BUF
Total/NA	Analysis	300.0		100	426791	07/28/18 01:51	DMR	TAL BUF
Total/NA	Analysis	300.0		20	426629	07/26/18 21:54	DMR	TAL BUF
Total/NA	Analysis	310.2		6	425377	07/19/18 13:17	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425653	07/20/18 15:34	MAB	TAL BUF
Total/NA	Analysis	353.2		1	425654	07/20/18 15:34	MAB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 05:01	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-27-D1-W-180713

Lab Sample ID: 480-139008-12

Date Collected: 07/13/18 01:35

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425635	07/21/18 02:58	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 18:07	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	425494	07/20/18 13:34	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:52	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		5	425528	07/19/18 14:13	LMH	TAL BUF
Total/NA	Analysis	300.0		100	426791	07/28/18 02:05	DMR	TAL BUF
Total/NA	Analysis	300.0		20	426629	07/26/18 22:03	DMR	TAL BUF
Total/NA	Analysis	310.2		6	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:29	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:29	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 06:27	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-27-D2-W-180713

Lab Sample ID: 480-139008-13

Date Collected: 07/13/18 01:10

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	425635	07/21/18 03:21	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 18:16	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 13:51	BEK	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		1	426051	07/19/18 00:56	LMH	TAL BUF
Total/NA	Prep	3005A			424891	07/18/18 08:55	KMP	TAL BUF
Total/NA	Analysis	6010C		5	425528	07/19/18 14:17	LMH	TAL BUF
Total/NA	Analysis	300.0		200	426791	07/28/18 02:20	DMR	TAL BUF
Total/NA	Analysis	300.0		50	426629	07/26/18 22:11	DMR	TAL BUF
Total/NA	Analysis	310.2		4	425377	07/19/18 12:25	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:30	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:30	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426833	07/27/18 06:55	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-28-D2R-W-180713

Lab Sample ID: 480-139008-14

Date Collected: 07/13/18 03:33

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	425635	07/21/18 03:45	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/19/18 13:35	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 14:09	BEK	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		1	426011	07/24/18 02:36	LMH	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		5	426285	07/24/18 15:19	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426629	07/26/18 22:19	DMR	TAL BUF
Total/NA	Analysis	310.2		5	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425653	07/20/18 15:37	MAB	TAL BUF
Total/NA	Analysis	353.2		1	425654	07/20/18 15:37	MAB	TAL BUF
Total/NA	Analysis	9060A		1	426555	07/26/18 08:24	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: MW-29-D1-W-180713

Lab Sample ID: 480-139008-15

Date Collected: 07/13/18 04:05

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	425635	07/21/18 04:08	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/19/18 13:44	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	425726	07/22/18 13:40	DSC	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		1	426011	07/24/18 02:40	LMH	TAL BUF
Total/NA	Prep	3005A			425574	07/21/18 08:53	JAK	TAL BUF
Total/NA	Analysis	6010C		2	426285	07/24/18 15:23	LMH	TAL BUF
Total/NA	Analysis	300.0		20	426629	07/26/18 22:27	DMR	TAL BUF
Total/NA	Analysis	310.2		6	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425653	07/20/18 15:39	MAB	TAL BUF
Total/NA	Analysis	353.2		1	425654	07/20/18 15:39	MAB	TAL BUF
Total/NA	Analysis	9060A		1	426851	07/25/18 23:07	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Client Sample ID: AMW-15-D3-W-180713

Lab Sample ID: 480-139008-16

Date Collected: 07/13/18 21:45

Matrix: Water

Date Received: 07/17/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	425707	07/22/18 12:33	S1V	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 18:24	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	425494	07/20/18 14:44	BEK	TAL BUF
Total/NA	Prep	3005A			425370	07/20/18 08:21	JAK	TAL BUF
Total/NA	Analysis	6010C		1	425786	07/20/18 17:34	LMH	TAL BUF
Total/NA	Prep	3005A			425370	07/20/18 08:21	JAK	TAL BUF
Total/NA	Analysis	6010C		5	426022	07/23/18 16:25	LMH	TAL BUF
Total/NA	Analysis	300.0		50	426629	07/26/18 22:35	DMR	TAL BUF
Total/NA	Analysis	310.2		6	425377	07/19/18 13:15	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:31	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:31	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426851	07/25/18 23:37	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	MJB	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-139008-1

Client Sample ID: AMW-15-VD-W-180713

Date Collected: 07/13/18 21:20
Date Received: 07/17/18 09:40

Lab Sample ID: 480-139008-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425707	07/22/18 12:56	S1V	TAL BUF
Total/NA	Analysis	RSK-175		1	131931	07/18/18 18:33	MLT	TAL BUR
Total/NA	Analysis	RSK-175		1	425726	07/22/18 13:59	DSC	TAL BUF
Total/NA	Prep	3005A			425370	07/20/18 08:21	JAK	TAL BUF
Total/NA	Analysis	6010C		1	425786	07/20/18 17:38	LMH	TAL BUF
Total/NA	Prep	3005A			425370	07/20/18 08:21	JAK	TAL BUF
Total/NA	Analysis	6010C		20	426022	07/23/18 16:28	LMH	TAL BUF
Total/NA	Analysis	300.0		500	426791	07/28/18 03:48	DMR	TAL BUF
Total/NA	Analysis	300.0		100	426629	07/26/18 22:43	DMR	TAL BUF
Total/NA	Analysis	310.2		5	425377	07/19/18 12:18	SAH	TAL BUF
Total/NA	Analysis	353.2		1	425172	07/17/18 18:38	DCB	TAL BUF
Total/NA	Analysis	353.2		1	427326	07/17/18 18:38	MMB	TAL BUF
Total/NA	Analysis	9060A		1	426851	07/26/18 00:08	SMH	TAL BUF
Total/NA	Analysis	SM 3500		1	427257	07/31/18 10:35	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	425886	07/23/18 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	425424	07/19/18 09:32	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

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 480-139008-1
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 accreditation/certification is not offered by the governing authority:

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 accreditation/certification is not offered by the governing authority:

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

Method Summary

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

TestAmerica Job ID: 480-139008-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
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 BUF

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

Sample Summary

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

TestAmerica Job ID: 480-139008-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-139008-1	AMW-7-W-180711	Water	07/11/18 23:48	07/17/18 09:40
480-139008-2	AMW-14-D1-W-180712	Water	07/12/18 01:35	07/17/18 09:40
480-139008-3	AMW-14-D2-W-180712	Water	07/12/18 01:20	07/17/18 09:40
480-139008-4	AMW-14-VD-W-180712	Water	07/12/18 01:05	07/17/18 09:40
480-139008-5	MW-18R-W-180711	Water	07/11/18 22:50	07/17/18 09:40
480-139008-6	MW-23D-1R-W-180712	Water	07/12/18 03:15	07/17/18 09:40
480-139008-7	MW-23D-2R-W-180712	Water	07/12/18 02:55	07/17/18 09:40
480-139008-8	MW-24-D1-W-180712	Water	07/12/18 23:55	07/17/18 09:40
480-139008-9	MW-24-D2-W-180712	Water	07/12/18 23:30	07/17/18 09:40
480-139008-10	MW-24-VD-W-180712	Water	07/12/18 22:40	07/17/18 09:40
480-139008-11	MW-26-D1-W-180713	Water	07/13/18 02:20	07/17/18 09:40
480-139008-12	MW-27-D1-W-180713	Water	07/13/18 01:35	07/17/18 09:40
480-139008-13	MW-27-D2-W-180713	Water	07/13/18 01:10	07/17/18 09:40
480-139008-14	MW-28-D2R-W-180713	Water	07/13/18 03:33	07/17/18 09:40
480-139008-15	MW-29-D1-W-180713	Water	07/13/18 04:05	07/17/18 09:40
480-139008-16	AMW-15-D3-W-180713	Water	07/13/18 21:45	07/17/18 09:40
480-139008-17	AMW-15-VD-W-180713	Water	07/13/18 21:20	07/17/18 09:40

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	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Andrew Haselhoff	Phone: (717) 901-8100	Schove, John R E-Mail: john.schove@testamericainc.com		480-115468-26696.1 Page: Page 1 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	WO #: NWENV-06518040-0-08.02			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn
D - Ni
E - Na
F - Mn
G - Al
H - As
I - Ice
J - DI
K - EDTA
L - EDA
M - Hexane
N - None
3
lecahydrate
480-139008 COC
pecify)
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		
AMW-7	07/11/18	2348	G	Water	N		3	1	1	3	3	2	1	2	1	1		
AMW-14-D1	07/12/18	0135	G	Water	N		3	1	1	3	3	2	1	2	1	1		
AMW-14-D2	07/12/18	0120	G	Water	N		3	1	1	3	3	2	1	2	1	1		
AMW-14-VD	07/12/18	0105	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-18R	07/11/18	2250	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-23D-1R	07/12/18	0315	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-23D-2R	07/12/18	0255	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-24-D1	07/12/18	2355	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-24-D2	07/12/18	2330	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-24-VD	07/12/18	2240	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-26-D1	07/13/18	0220	G	Water	N		3	1	1	3	3	2	1	2	1	1		

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:	Company	Received by:	Date/Time:	Company
[signature] LEIDOS	07/13/18 1900	LEIDOS	[signature]	7/17/18 0940	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3, 2.9, 3.1, 3.4

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: CHARLES L. KLINGER	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-115468-26696.1
Client Contact: Mr. Andrew Haselhoff	Phone: (717) 901-8100	E-Mail: john.schove@testamericainc.com		Page: Page 1 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	WO #: NWENV-06518040-0-08.02			
Project Name: CHEVRON - CVX#6518040 - Oceanside, NY	Project #: 48016199			
Site:	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-27-D1	07/13/18	0135	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-27-D2	07/13/18	0110	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-28-D2R	07/13/18	0333	G	Water	N		3	1	1	3	3	2	1	2	1	1		
MW-29-D1	07/13/18	0405	G	Water	N		3	1	1	3	3	2	1	2	1	1		
				Water														
				Water														
				Water														
				Water														
				Water														
				Water														
				Water														
				Water														

07/13/18

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:	Company	Received by:	Date/Time:	Company
1	LEIDOS	07/13/18 1900	LEIDOS	Walker	7/14/18 0940	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: IR 3.3, 2.8, 3.1, 3.4

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

480-139008 Chain of Custody

stAmerica
LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R		3419.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	New York	Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139008-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 7/27/2018			
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:	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:
			Preservation Code:						
AMW-7 (480-139008-1)	7/11/18	23:48 Eastern		Water			X	3	
AMW-14-D1 (480-139008-2)	7/12/18	01:35 Eastern		Water			X	3	
AMW-14-D2 (480-139008-3)	7/12/18	01:20 Eastern		Water			X	3	
AMW-14-VD (480-139008-4)	7/12/18	01:05 Eastern		Water			X	3	
MW-18R (480-139008-5)	7/11/18	22:50 Eastern		Water			X	3	
MW-23D-1R (480-139008-6)	7/12/18	03:15 Eastern		Water			X	3	
MW-23D-2R (480-139008-7)	7/12/18	02:55 Eastern		Water			X	3	
MW-24-D1 (480-139008-8)	7/12/18	23:55 Eastern		Water			X	3	
MW-24-D2 (480-139008-9)	7/12/18	23:30 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 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:	Date/Time: 7/17/18 16X5	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/18/18 1030	Company TAB		
Custody Seals Intact: NA	Custody Seal No.: NA		Cooler Temperature(s) °C and Other Remarks: 0.6				

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: 480-43419.2
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 #: 480-139008-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 7/27/2018			
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:	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=soil, 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						
MW-24-VD (480-139008-10)	7/12/18	22:40 Eastern		Water			X	3	
MW-26-D1 (480-139008-11)	7/13/18	02:20 Eastern		Water			X	3	
MW-27-D1 (480-139008-12)	7/13/18	01:35 Eastern		Water			X	3	
MW-27-D2 (480-139008-13)	7/13/18	01:10 Eastern		Water			X	3	
MW-28-D2R (480-139008-14)	7/13/18	03:33 Eastern		Water			X	3	
MW-29-D1 (480-139008-15)	7/13/18	04:05 Eastern		Water			X	3	
AMW-15-D3 (480-139008-16)	7/13/18	21:45 Eastern		Water			X	3	
AMW-15-VD (480-139008-17)	7/13/18	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 complicance to TestAmerica Laboratories, Inc.

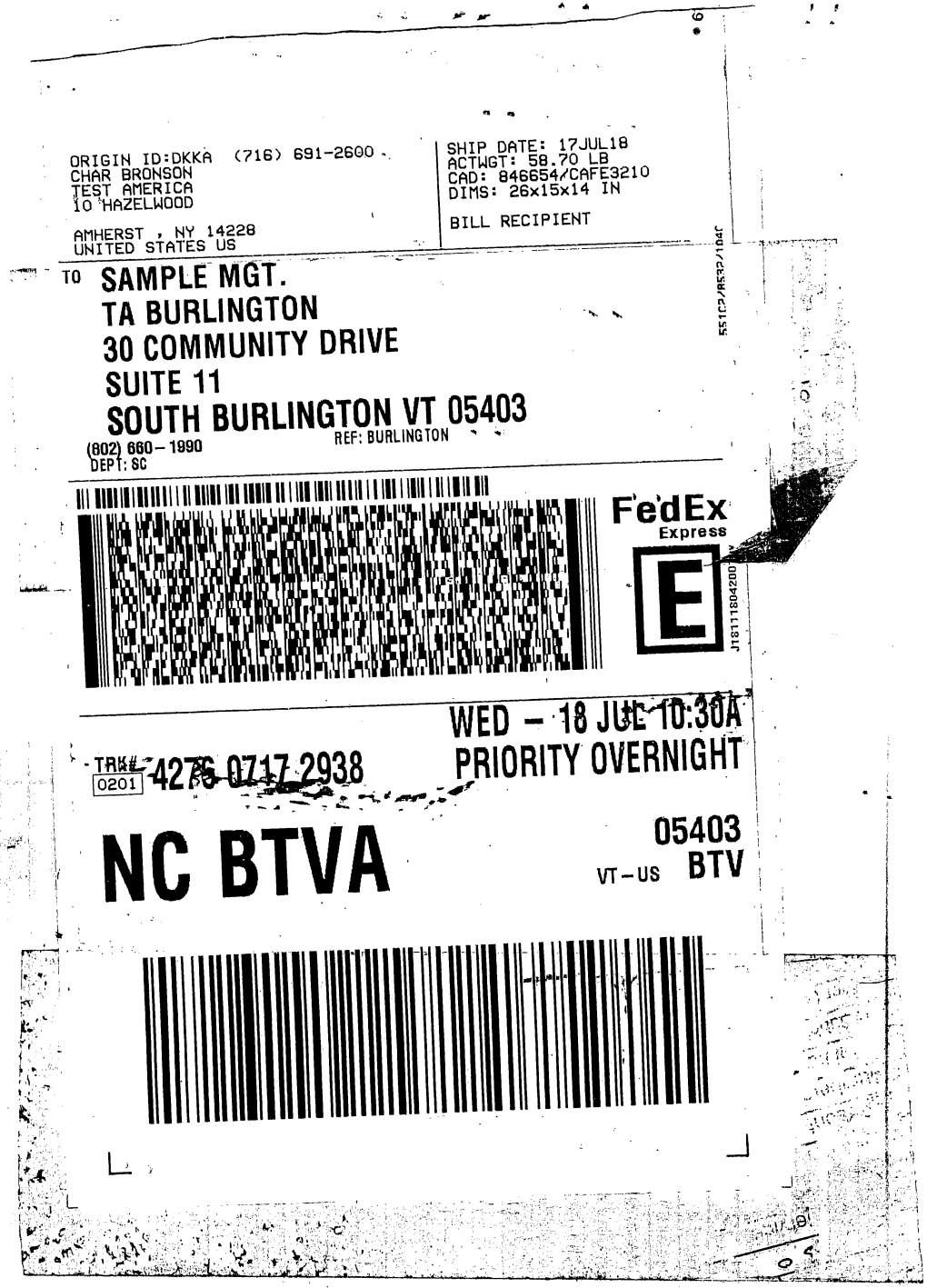
Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/17/18 1645	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/18/18 1030	Company TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016



ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 17JUL18
ACTWGT: 58.70 LB
CAD: 846654/CAFE3210
DIMS: 26x15x14 IN

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF: BURLINGTON
DEPT: SC

FedEx Express

WED - 18 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4276 0717 2938

NC BTVA

05403
VT-US BTV

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

Chain of Custody Record

480-139008 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	COC No: 480-43485.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.schove@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-139008-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 7/27/2018		
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:	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:						
MW-26-D1 (480-139008-11)	7/13/18	02:20 Eastern		Water			X	3	
MW-28-D2R (480-139008-14)	7/13/18	03:33 Eastern		Water			X	3	
MW-29-D1 (480-139008-15)	7/13/18	04:05 Eastern		Water			X	3	

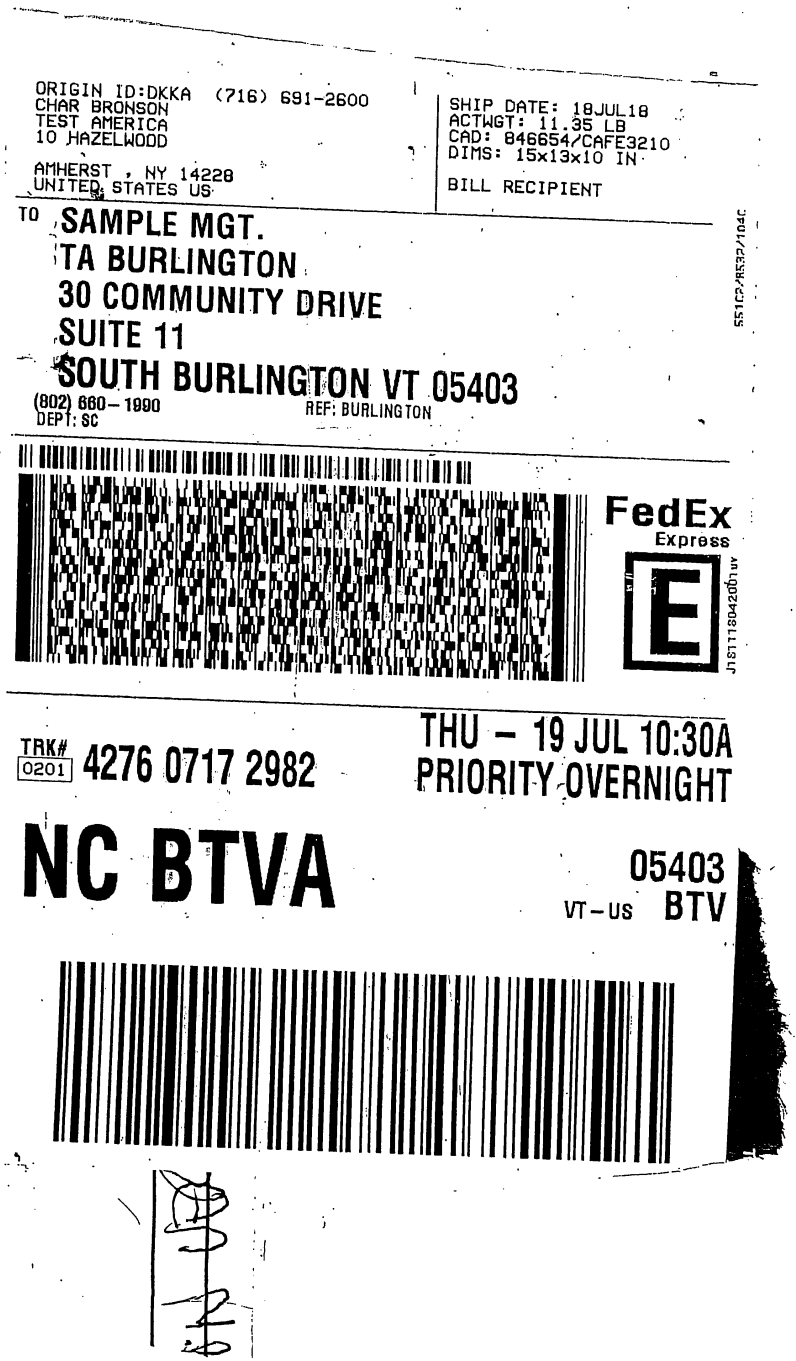
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation 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 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:	Date/Time: 7/18/18 1650	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/19/18 1030	Company TASR	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 526022	Cooler Temperature(s) °C and Other Remarks: 5.7

Ver: 09/20/2016



ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 18JUL18
ACTWGT: 11.35 LB
CAD: 846654/CAFE3210
DIMS: 15x13x10 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

TRK# 0201 4276 0717 2982

THU - 19 JUL 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-139008-1

Login Number: 139008
List Number: 1
Creator: Kolb, Chris M

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.	False	No: Received extra samples not listed on COC.
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	LEDIOS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-139008-1

Login Number: 139008
List Number: 2
Creator: Mohn, Taylor J

List Source: TestAmerica Burlington
List Creation: 07/18/18 12:20 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.	N/A	Not present
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	0.6°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	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 480-139008-1

Login Number: 139008
List Number: 3
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 07/19/18 12:39 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	526022
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	5.7°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?	True	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.	True	
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	No analysis requiring residual chlorine check assigned.